

Guide to Microsoft System Center Management Pack (RC0) for SQL Server 2017

Microsoft Corporation

Published: June, 2017

The Operations Manager team encourages you to provide any feedbacks on the management pack by sending them to [sqlmpsfeedback@microsoft.com](mailto:sqlmpsfeedback@microsoft.com).

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# Guide to Microsoft System Center Management Pack for SQL Server 2017

This guide is based on version 6.7.60.0 of the Management Pack for Microsoft SQL Server 2017.

## Changes History

| **Release Date** | **Changes** |
| --- | --- |
| June, 2017 (version 6.7.60.0 RC0) | * Implemented Always On monitoring on Windows and Linux * Implemented Disk Latency workflows * Added new "Login failed" alerting rule for SQL Server event #18456 * Added support for AD Credentials in Agentless Mode on Windows * Fixed issue: different file location info from "sys.master\_files" and "sysfiles" causes error when Availability Group secondary database files are in different path * Fixed issue: workflows cannot connect to an instance when only Shared Memory protocol is enabled * Fixed issue: Perviously deleted SQL Server 2017 on Windows/Linux custom user policies do not disappear in SCOM * Introduced a number of improvements to the management pack |
| May, 2017 (version 6.7.55.0 CTP3) | * Always On monitoring for Windows: implemented basic workflows similar to SQL Server 2016 management pack * SQL Cluster is now supported in Mixed monitoring mode (it used to be supported in Agentless monitoring mode only) * The management pack can now use SQL Server authentication credentials in Agent / Mixed monitoring modes (previously, SQL credentials could be used in Agentless monitoring mode only) * Implemented tasks execution * Implemented monitoring of SQL Server Agent * Implemented monitoring of Resource Pools * Added several monitors and performance rules for Memory-Optimized Tables monitoring * Implemented monitoring of Custom User Policies * Improved SQL queries in the database discovery * Fixed issue: "Failed to replace parameter while creating the alert for monitor state change" warnings for workflows of Memory-Optimized Tables containers * Fixed log reader issues * Fixed "SPN Configuration" issue * Updated and fixed the Knowledge Base articles and display strings |
| February, 2017 (version 6.7.40.0 CTP2) | * Implemented “Discovery Data Mapper”; improved queries and datasources * Implemented support for full cookdown for all discoveries on Linux and Windows * Implemented Log Shipping monitoring * Implemented new monitors and rules:   + “Service Pack Compliance” monitor   + “SQL Server Windows Service” monitor   + “CPU Utilization (%)” monitor   + “SQL Server Service (database)” monitor   + “Database Health Policy (Critical)” monitor   + “Database Health Policy (Warning)” monitor   + “WMI Health” monitor   + “Memory Used By Tables (MB) rule   + “Memory Used By Indexes (MB)” rule   + “MSSQL 2017 on Windows: DB Engine CPU Utilization (%)” rule   + “SQL Server 2017 DB Engine is restarted” rule * Implemented new DB Space performance rules:   + MSSQL 2017: DB Allocated Space Unused (MB)   + MSSQL 2017: DB Free Space Total (%)   + MSSQL 2017: DB Free Outer Space (MB)   + MSSQL 2017: DB Transaction Log   + Free Space Total (%)   + MSSQL 2017: DB Free Space Total (MB)   + MSSQL 2017: DB Allocated Space Used (MB)   + MSSQL 2017: DB Allocated Space (MB) * Implemented new classes:   + SQL Server 2017 DB FILESTREAM Filegroup on <Platform>   + SQL Server 2017 DB Memory-Optimized Data Container on <Platform>   + Generic SQL Server 2017 Custom User Policy   + SQL Server 2017 Custom User Policy on <Platform>   + SQL Server 2017 Database Critical Policy on <Platform>   + SQL Server 2017 Database Warning Policy on <Platform>   + SQL Server 2017 Resource Pool Group on <Platform>   + Generic SQL Server 2017 Resource Pool   + SQL Server 2017 Resource Pool on <Platform>   + SQL Server 2017 Internal Resource Pool on <Platform>   + SQL Server 2017 User Resource Pool on <Platform>   + SQL Server 2017 User-Defined Resource Pool on <Platform> * Implemented new monitor and rule for FILESTREAM objects:   + MSSQL 2017 on <Platform>: DB FILESTREAM Filegroup Free Space Total (MB)   + MSSQL 2017 on <Platform>: DB FILESTREAM Filegroup Free Space Total (%) * Implemented new performance rules for Memory-Optimized Data filegroups:   + MSSQL 2017 on Windows: DB Memory-Optimized Data Filegroup Free Space Total (MB)   + MSSQL 2017 on Windows: DB Memory-Optimized Data Filegroup Free Space Total (%) * Implemented “MSSQL LogReader” module * Implemented Event Collection monitoring for Linux and Windows (more than 400 workflows) * Implemented discoveries, rollups and icons for the new classes; updated Filegroup and child classes’ icons * Implemented all XTP counters (more than 200 workflows) * Implemented “Empty Bucket percent” in the hash index monitor * Implemented “Average length of the row chains” in the hash buckets monitor * Implemented “SQL Full-text Filter Daemon Launcher Service”; added “NetworkName” property to local dbengine; refactored Windows monitoring folder structure * Added “Local Database” class on Windows * Improved the architecture: split “Windows.DBEngine” and “Windows.LocalDBEngine” classes * Improved error logging * Improved the error-handling (connectivity issues) * Remounted “LocalDiscoverySeed” discovery to support long names and not support wow64 * Updated Add Monitoring Wizard: fixed layouts issues, improved multithreading and performance, implemented background loading progress * Updated and fixed the Knowledge Base articles and display strings; unified the workflows naming template * Fixed alerts for classes managed by local agent * Fixed Smart Connect issues connected with cached data (WMI connection) * Fixed Linux modules to skip smart connect * Fixed issue: “Total Transactions Per Second” rule runs twice in one interval * Fixed issue: SQL Server 2017 on Windows database objects may get rediscovered * Fixed issue: filegroups get undiscovered in SQL Express instance * Fixed issue: in some situations, Add Monitoring Wizard cannot detect that test connection task is completed * Fixed issue: the already discovered database objects are undiscovered if database state is changed to "Offline" |
| December, 2016 (version 6.7.18.0 CTP1) | Original release of this management pack |

## Get Started

In this section:

* [What’s New?](#_Supported_Configurations)
* [Supported Configurations](#_Supported_Configurations_1)
* [Management Pack Scope](#_Management_Pack_Scope)
* [Prerequisites](#_Prerequisites)
* [Files in This Management Pack](#_Files_in_this)
* [Mandatory Configuration](#_Mandatory_Configuration)

### What’s New?

This management pack provides the following new features:

* Cross-platform operation: SQL 2017 monitoring is possible as on Windows, so as on Linux operating systems.
* Agentless monitoring is now available along with traditional agent monitoring. To configure agentless monitoring, a special [Add Monitoring Wizard](#_Microsoft_SQL_Server) is designed. Please note that agent monitoring is applied to Windows instances only. For Windows, you can also combine monitoring types by means of overrides: you can select objects to be monitored agentless by means of overrides. For details, see “[Configure Agentless Monitoring by Override](#_Configure_Agentless_Monitoring_1)” section.
* Improved monitoring efficiency: monitoring target is now defined by SQL Server 2017 Monitoring Pool. This monitoring pool is provided with the management pack for agentless monitoring purposes, and you can configure this pool accordingly. See [Configure SQL Server 2017 Monitoring Pool](#_Configure_SQL_Server) section for more details.

### Supported Configurations

This management pack is tested for the following versions of System Center Operations Manager:

* System Center Operations Manager 2012 R2
* System Center Operations Manager 2016

A dedicated Operations Manager management group is not required for this management pack.

Installation of .NET Framework 4.5 and newer is required.

The following table details the supported configurations for the management pack:

|  |  |
| --- | --- |
| **Configuration** | **Support** |
| SQL Server 2017 | Windows Server 2012  Windows Server 2012 R2  Windows Server 2016  Linux |
| Clustered servers | Yes |
| Agent monitoring | On Windows OS only |
| Agentless monitoring | Yes |
| Virtual environment | Yes |

The installation of SQL Server 2017 is only supported on x64 processors, it is not supported on x86 processors.

Upgrade from the previous version of the management pack is not supported. Please use a clean installation.

SMB fileshares are supported as a storage option. For more information, see [Description of support for network database files in SQL Server](https://support.microsoft.com/en-us/kb/304261) article.

### Management Pack Scope

Management Pack for Microsoft SQL Server 2017 enables the monitoring of the following features:

* SQL Server 2017 Database Engines (supported editions: Evaluation, Developer, Express)
* SQL Server 2017 Databases (including filegroups, data files and transaction log files)

Important

We recommend that you monitor no more than 50 databases and 150 database files per System Center Operations Manager agent to avoid spikes in CPU usage that may affect the performance of monitored servers. Note that administrator rights are required for System Center Operations Manager agent in case of local monitoring.

Note

Please refer to “[Monitoring Scenarios](#_Monitoring_Scenarios)” section for a full list of monitoring scenarios supported by this management pack.

Note

For more information and detailed instructions on setup and configuration, see “[Configure the Management Pack](#_Configure_the_Management)” section of this guide.

### Prerequisites

As a best practice, you should import the Windows Server Management Pack for the operating system you are using. The Windows Server Management Packs monitor aspects of the operating system that influence the performance of computers running SQL Server, such as disk capacity, disk performance, memory utilization, network adapter utilization, and processor performance.

### Files in This Management Pack

The Management Pack for Microsoft SQL Server 2017 includes the following files:

* Microsoft.SQLServer.2017.Library.Dashboards.mp
* Microsoft.SQLServer.2017.Library.Views.mp
* Microsoft.SQLServer.2017.Linux.Dashboards.mp
* Microsoft.SQLServer.2017.Linux.Views.mp
* Microsoft.SQLServer.2017.Windows.Dashboards.mp
* Microsoft.SQLServer.2017.Windows.Views.mp
* Microsoft.SQLServer.2017.Library.mpb
* Microsoft.SQLServer.2017.Linux.Discovery.mpb
* Microsoft.SQLServer.2017.Linux.Monitoring.mpb
* Microsoft.SQLServer.2017.Windows.Discovery.mpb
* Microsoft.SQLServer.2017.Windows.Monitoring.mpb

**Note:** As long as GPMP Run As profiles are used, GPMP of version 6.7.18.0 and newer is required.

### Mandatory Configuration

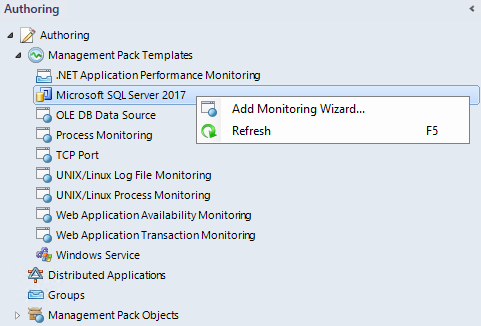
To configure Management Pack for Microsoft SQL Server 2017 complete following steps:

* Review the “[Configure the Management Pack](#_Configure_the_Management)” section of this guide.
* Grant the required permissions as described in “[Security Configuration](#_Security_Configuration)” section of this guide.
* Enable the Agent Proxy option on all agents that are installed on servers that are members of the cluster. It is not necessary to enable this option for standalone servers. For more information about enabling Agent Proxy option see “[How to Enable Agent Proxy Option](#_How_to_Enable)” section of this guide.
* Import the Management Pack.
* Associate SQL Server 2017 Run As profiles with accounts that have appropriate permissions. For more information about configuring Run As profiles see “[How to Configure Run As Profiles](#_How_to_configure_1)” section of this guide.
* Enable TCP\IP protocol and SQL browser to ensure correct working of the management pack with SQL Server 2017 instances. This protocol is supported for all monitoring scenarios. Note that “Shared memory” protocol is supported for Local Agent monitoring scenarios only. “Named Pipes” protocol is not supported.

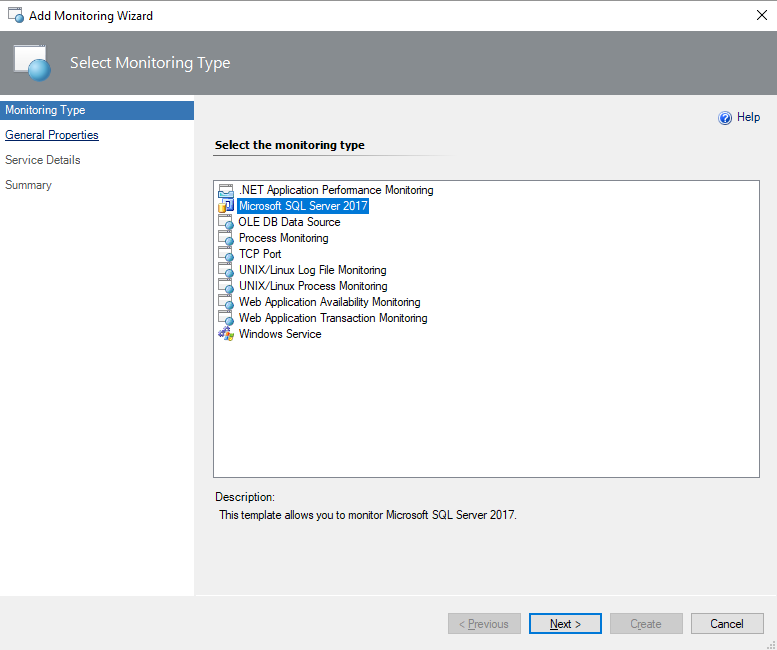
#### Configure Agentless Monitoring by Add Monitoring Wizard

To begin agentless monitoring of SQL Server 2017 instances, perform the following steps:

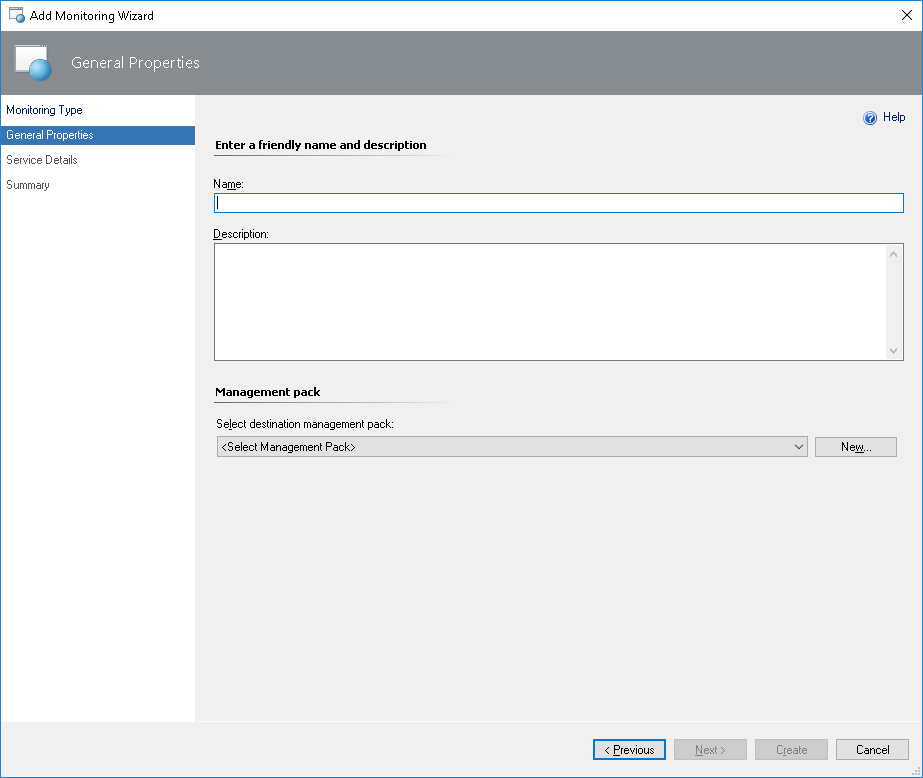
In the Operations Manager, navigate to **Authoring** | **Management Pack Templates**, right-click **Microsoft** **SQL Server 2017** and select **Add Monitoring Wizard…**

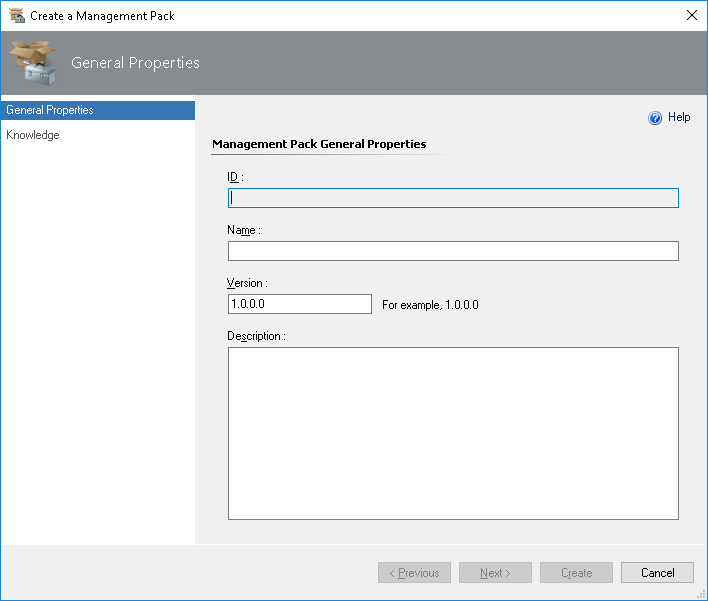


In **Monitoring Type** window, select **Microsoft SQL Server 2017** and click **Next** button.

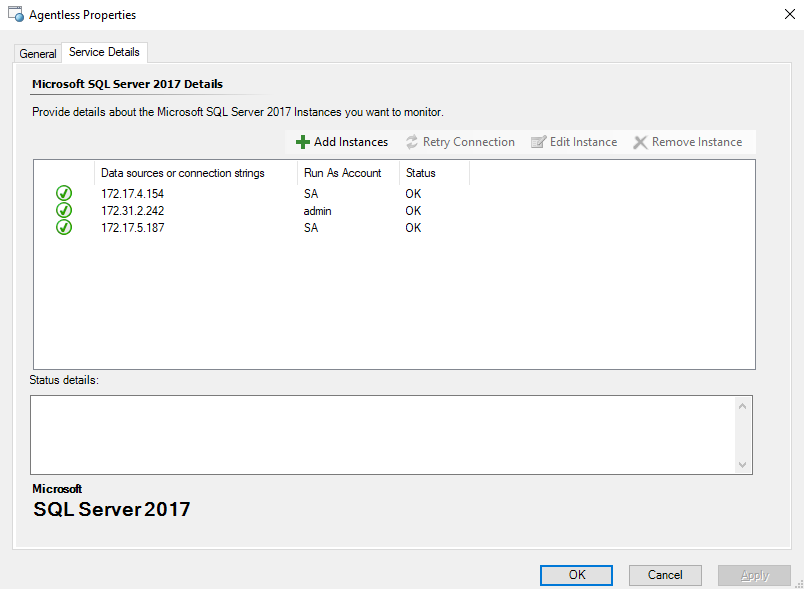


In **General Properties** window, you must provide your template **Name** and **Description**, as well as **Select destination management pack** where the template will be stored.

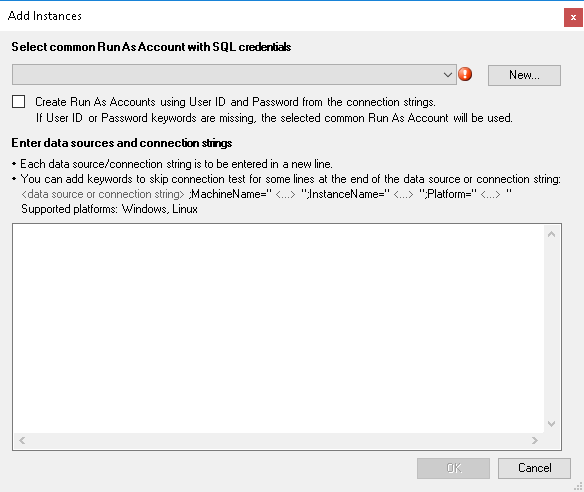


You can also create a new destination management pack by clicking the corresponding button.  
  


In **Service Details** window, you should provide the corresponding details about the instances you want to monitor.



Click the corresponding button to **Add Instances** for monitoring.



In this window, select a common Run As Account with appropriate SQL credentials. Then, enter the data sources and (or) connection strings. Please, follow the instructions provided in this window to avoid errors.

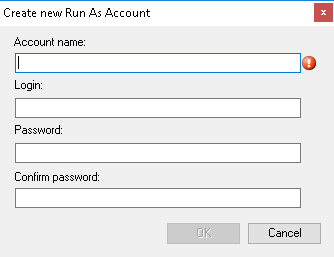
The data is to be entered in the format provided in the examples below:

*172.31.2.133;MachineName="W12BOX-839";InstanceName="MSSQLSERVER";Platform="Windows"*

*172.31.2.133,50626;MachineName="W12BOX-839";InstanceName="SQLEXPRESS";Platform="Windows"*

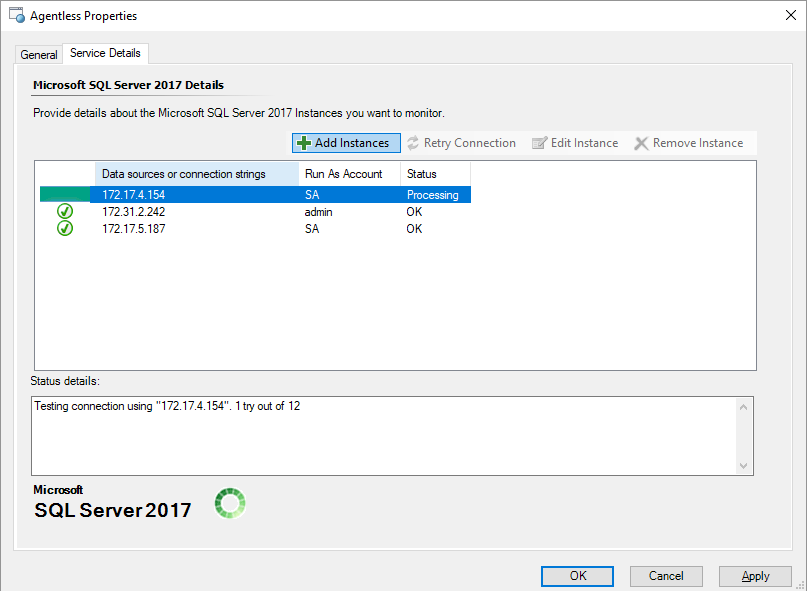
*172.17.5.115;MachineName="ubuntu";InstanceName="MSSQLSERVER";Platform="Linux"*

You can also create a new Run As account by clicking the **New…** button.

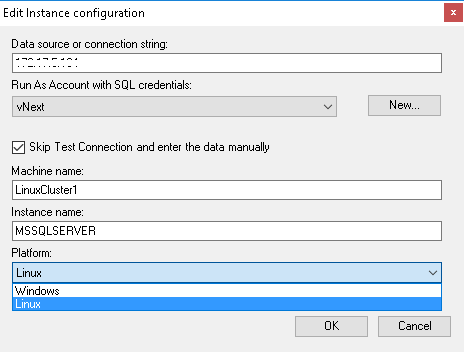


In the corresponding window, enter your new Run As Account name and credentials of the SQL server you want to monitor.

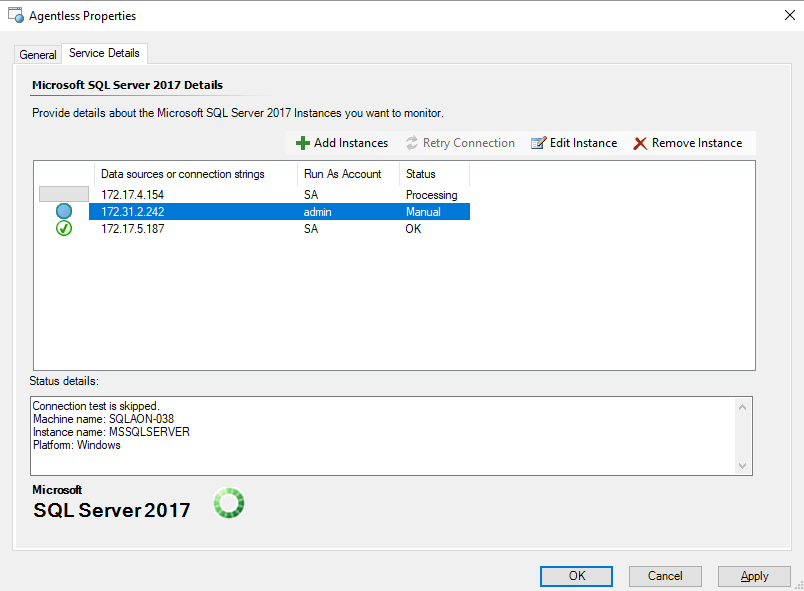
After clicking the **OK** button in **Add Instances** window, testing of the connection to the selected instance will be performed.



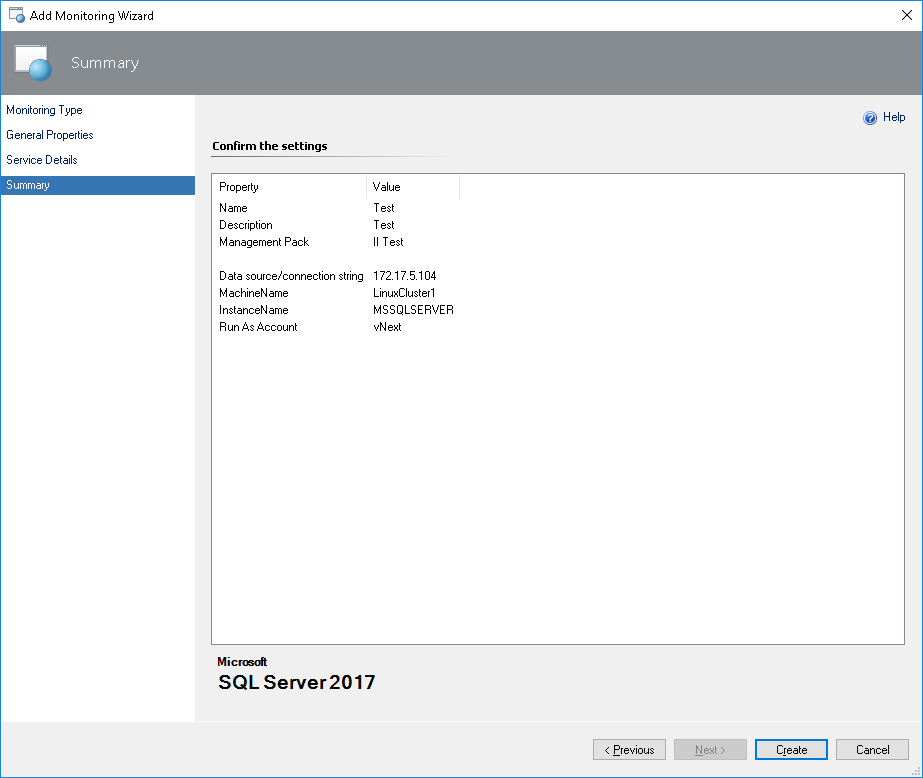
When the connection testing is completed, you can view and edit properties of the added instance. To do that, select the instance and click the **Edit Instance** button.



To skip connection testing and enter the data manually, check the corresponding box in this window. If you do that, the status of your instance will be changed to manual.



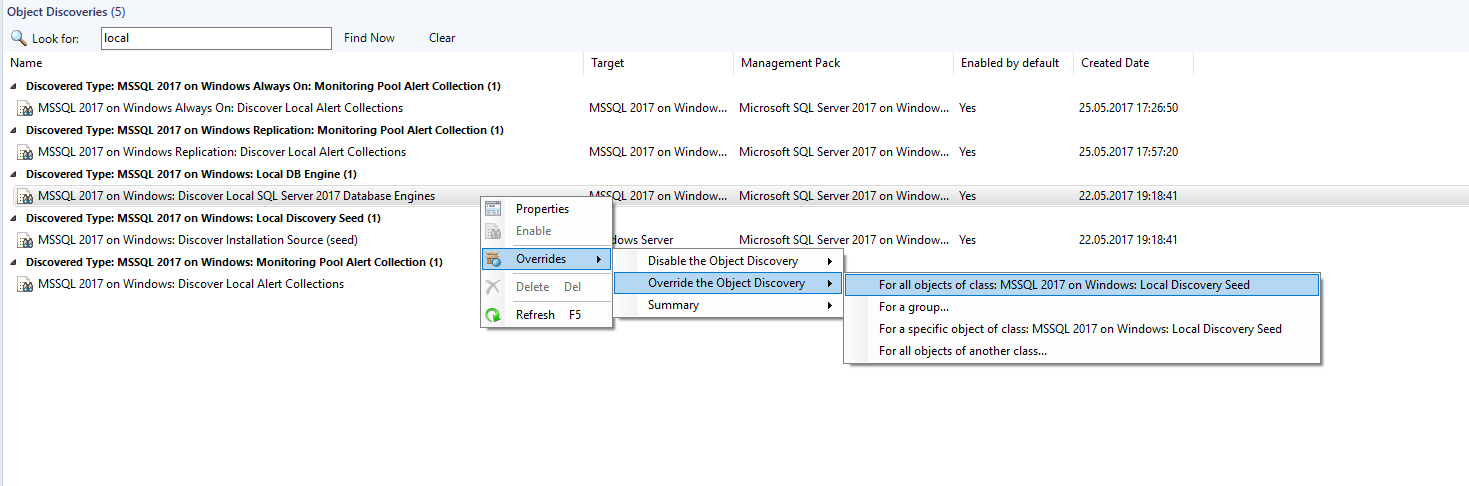
In **Summary** window, you can view you monitoring settings and confirm them by clicking the **Create** button.



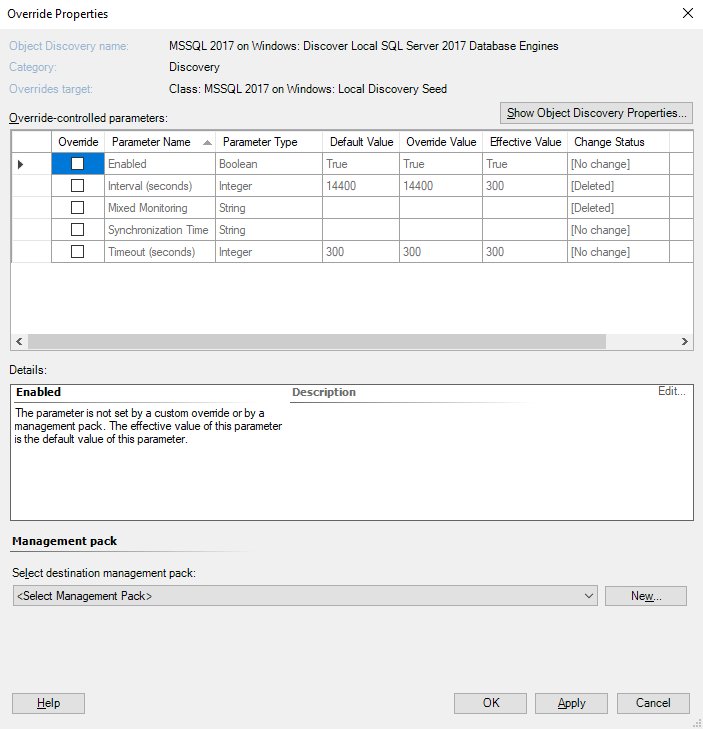
After that, your monitoring template will be successfully created.

#### Configure Agentless Monitoring by Override

If you want to switch some objects to agentless monitoring on Windows, in the Operations Manager navigate to **Authoring** | **Management Pack Objects**, select **Object Discoveries** and find **MSSQL 2017: Discover Local SQL 2017 Database Engines on Windows** object discovery. Right-click this discovery and select the following action: **Overrides** > **Override the Object Discovery** > **For a specific object of class: SQL Server 2017 Local Discovery Seed on Windows**.

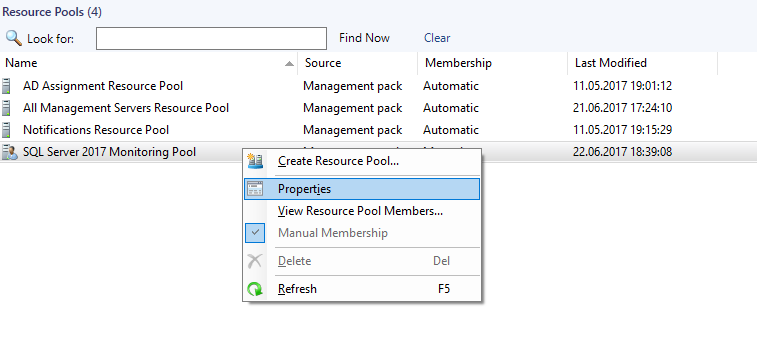


As a result, **Override Parameters** window will be displayed. In this window, enable override for **Agentless Monitoring** parameter and enter the names of the instances in the **Override Value** field to switch them to agentless monitoring. Please note that the names of the instances should be separated by commas. If you want to add all the instances, enter asterisk character (\*) in the field.

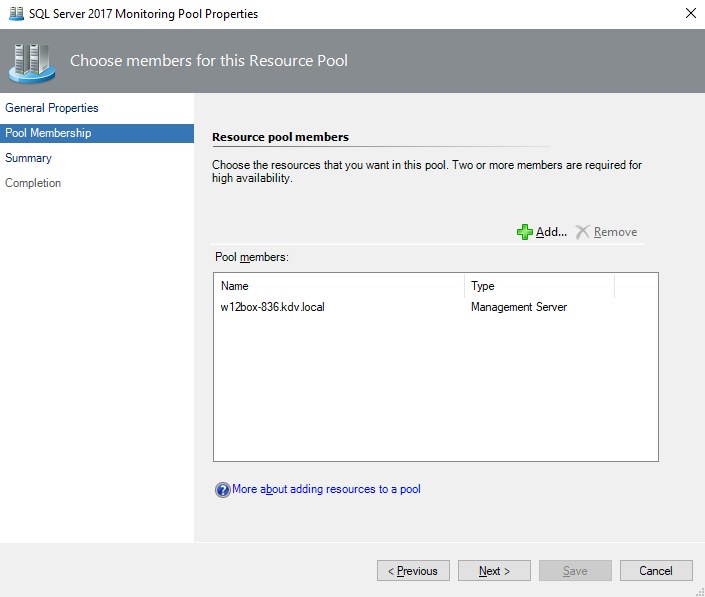


#### Configure SQL Server 2017 Monitoring Pool

The monitoring pool is available for configuration in the Operations Manager. To configure the monitoring pool, navigate to **Administration | Resource Pools**, right-click **SQL Server 2017 Monitoring Pool** in the list of Resource Pools and check **Manual Membership** option. Then, select **Properties** action.



As a result, **SQL Server 2017 Monitoring Pool Properties** window will be displayed. In this window, select **Pool Membership** tab. In this tab, click **Add…** button to populate the monitoring pool.



**Note:** If the pool remains empty, it mirrors the contents of All Management Servers pool. The pool must be populated with either Gateways or Management Servers, but they should not be added to the pool together.

## Management Pack Purpose

In this section:

* [Monitoring Scenarios](#_Monitoring_Scenarios)
* [How Health Rolls Up](#_How_Health_Rolls)

Note

For details on the discoveries, rules, and monitors contained in this management pack, see the following section of this guide:

* [Appendix: Management Pack objects and workflows](#_Appendix:_Management_Pack)

### Monitoring Scenarios

#### Discovery of SQL Server Database Engine Instances

The Management Pack for Microsoft SQL Server 2017 automatically discovers stand-alone and clustered instances of SQL Server 2017 across all managed systems that run System Center Operations Manager agent service.

#### Database Discovery and State Monitoring

For each managed database engine, the databases on it are discovered and monitored using a number of rules and monitors. Please refer to “[Appendix: Management Pack objects and workflows](#_Appendix:_Management_Pack)” section for the full list of rules and monitors targeted to databases.

You can apply overrides to the discovery to specify an “Exclude List” (in comma-delimited format) of database names that the discovery should not consider.

#### Data File and Transaction Log File Space Monitoring

The management pack collects a set of metrics to enable the space monitoring at File, Filegroup and Database levels. You may use reports to review this information for multiple databases and for long time intervals.

This feature supports following types of media:

* Local storage (both drive letters and mount points)
* Cluster Shared Volumes
* SMB Shares
* Azure BLOBs

By default, space monitoring is enabled for all levels. Thereofre, an alert will be registered only when all files in the filegroup are unhealthy. If your environment is sensitive for any extra load, you may consider disabling monitoring on Filegroup and File level.

#### Many Databases on the Same Drive

Space monitoring introduced by this management pack may be noisy in environments where many databases share the same media and have **autogrow** setting enabled. In such cases, an alert for each database is generated when the amount of free space on the hard drive reaches the threshold. To reduce the noise, turn off the space monitors for data and transaction log files, and use Operating System Management Pack to monitor space on the hard drive.

#### DB Storage Latency Monitoring

This management pack collects “DB Disk Read Latency (ms)” and “DB Disk Write Latency (ms)” performance metrics for each database. Also, the management pack defines two associated monitors, which register alerts in case of significant performance degradation. These monitors are disabled by default. Enable these monitors only for specific DBs when necessary.

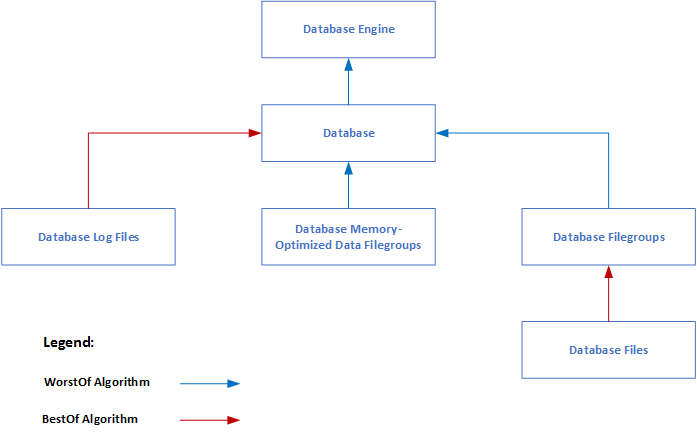
#### Blocked Sessions

The management pack defines the “**Blocking Sessions**” monitor, which is designed to query each database for session, which are blocked during a significant period. If blocking is detected and it exceeds the given threshold, then the state is changed and an alert is raised.

You can apply an override to change the **WaitMinutes** parameter, which is used to determine if the blocked session should be considered as long running or not. The default value for this parameter is **one minute**.

### How Health Rolls Up

The following diagram shows how the health states of objects roll up in this management pack.



## Configure the Management Pack

This section provides guidance on configuring and tuning this management pack.

In this section:

* [Best Practice: Create a Management Pack for Customizations](#z2)
* [How to Import a Management Pack](#_How_to_Import)
* [How to Enable Agent Proxy Option](#_How_to_Enable)
* [Security Configuration](#_Security_Configuration)
  + [Run As Profiles](#_Run_As_Profiles)
  + [Low-Privilege Environments](#_Low-privilege_environments)

### Best Practice: Create a Management Pack for Customizations

The Management Pack for Microsoft SQL Server 2017 is sealed so that you cannot change any of the original settings in the management pack file. However, you can create customizations, such as overrides or new monitoring objects, and save them to a different management pack. By default, the Operations Manager saves all customizations to the default management pack. As a best practice, you should instead create a separate management pack for each sealed management pack you want to customize.

Creating a new management pack for storing overrides has the following advantages:

* When you create a management pack for the purpose of storing customized settings for a sealed management pack, it is helpful to base the name of the new management pack on the name of the management pack that it is customizing, such as “Microsoft SQL Server 2017 Overrides”.
* Creating a new management pack for storing customizations of each sealed management pack makes it easier to export the customizations from a test environment to a production environment. It also makes it easier to delete a management pack, because you must delete any dependencies before you can delete a management pack. If customizations for all management packs are saved in the Default Management Pack and you need to delete a single management pack, you must first delete the Default Management Pack, which also deletes customizations to other management packs.

For more information about sealed and unsealed management packs, see [Management Pack Formats](http://go.microsoft.com/fwlink/?LinkId=108355) article. For more information about management pack customizations and the default management pack, see [About Management Packs](http://go.microsoft.com/fwlink/?LinkId=108356) article.

How to Create a New Management Pack for Customizations

|  |
| --- |
| 1. Open the Operations console, and then click the Administration button.  2. Right-click Management Packs, and then click Create New Management Pack.  3. Enter a name (for example, SQLMP Customizations), and then click Next.  4. Click Create. |

### How to Import a Management Pack

For the detailed information about importing a management pack, see [How to Import a Management Pack](#z3) article.

### How to Enable Agent Proxy Option

To enable **Agent Proxy option** complete following steps:

1. Open the Operations Console and click the **Administration** button.

2. In the Administrator pane, click Agent Managed.

3. Double-click an agent in the list.

4. On the Security tab, select Allow this agent to act as a proxy and discover managed objects on other computers.

### Security Configuration

This section provides guidance on configuring the security for this management pack.

In this section:

* [Run As Profiles](#_Run_As_Profiles)
* [Low-Privilege Environments](#_Low-privilege_environments)

#### Run As Profiles

The Run As profiles are included into GPMP (Dashboards management pack). Therefore, shared Run As profiles shipped since SQL Server 2016 release are used. At that, a new Run As profile is added to support SQL Authentication (SQL Authentication is supported only for SQL Server 2017). The list of Run As profiles is as follows:

* Microsoft SQL Server 2016 and 2017 Discovery Run As Profile – this profile is associated with all discoveries.
* Microsoft SQL Server 2016 and 2017 Monitoring Run As Profile – this profile is associated with all monitors and rules.
* Microsoft SQL Server 2016 and 2017 Task Run As Profile – this profile is associated with all tasks.
* Microsoft SQL Server 2017 SQL Credentials Run As Profile – this profile is used for authentication versus Microsoft SQL Server 2017 Instances using SQL Credentials.

By default, all discoveries, monitors, and tasks defined in the SQL Server management packs use accounts defined in the “Default Action Account” Run As profile. If the default action account for a given system does not have the necessary permissions to discover or monitor the instance of SQL Server, then those systems can be bound to more specific credentials in the “Microsoft SQL Server 2017 …” Run As profiles, which do have access.

##### How to Configure Run As Profiles

To configure Run As profiles, follow one of the scenarios described below:

1. SCOM Default Action Account is mapped to either Local System account, or any Domain User account, which is placed in the Local Administrators group on the operating system of the monitored machines. Note that the used account must be granted with SA rights in the monitored SQL Server instances (Domain User account can be granted with SA rights by granting SA to BUILTIN\Administrators local group in the SQL Server security access list). In this case, monitoring of SQL Server instances will work out of the box, except for some configurations described below. Please follow these steps to ensure that all requirements are met: If you store SQL Server databases on an SMB file share, make sure that Default Action Account has the rights described in the corresponding [Low-Privilege Environments](#_Low-privilege_environments) section.
2. SCOM Default Action Account is mapped to either Local System account or Domain User account as in the scenario described above, but SA rights cannot be granted to it, as long as the security policy prohibits granting SA rights to SCOM Default Action account. If the security policy permits to grant SA rights to a separate Domain User account, which will be used for launching SQL Server MP workflows only, perform the following steps:
3. Create a new Domain User account and add this account to Local Administrators group on each monitored server.
4. Grant SA rights to this account in SQL Server.
5. Create a new Action account in SCOM and map it to the Domain User account created above.
6. Map the new Action account to all SQL Server MP Run As Profiles.
7. If you store SQL Server databases on an SMB file share, make sure that your Domain User account has the rights described in the corresponding [Low-Privilege Configuration](#LowPrivSMB) section.
8. In case you need to grant the minimal required rights to SQL MP workflows, follow the instructions in [Low-Privilege Environments](#_Low-privilege_environments) section.

#### Low-Privilege Environments

This section describes how to configure the Management Pack for Microsoft SQL Server 2017 for low-privilege access. All workflows (discoveries, rules, monitors and actions) in this management pack are bound to Run As profiles described in “[Run As Profiles](#_Run_As_Profiles)” section. To enable low-privilege monitoring, appropriate permissions should be granted to Run As accounts and these accounts should bound to respective Run As profiles. Subsections below describe how to grant permissions at both Operating System and SQL Server level.

Note

Please refer to “[Run As Profiles](#_Run_As_Profiles)” section for the detailed explanation of what Run As profiles are defined in Management Pack for Microsoft SQL Server 2017.

Important

Low-privilege configuration is supported for non-clustered SQL Server 2017 environments and clustered instances of SQL Server 2017. Custom User Policy based monitoring is not supported in low-privilege mode.

## View Information in the Operations Manager Console

### Version-Independent (Generic) Views and Dashboards

This management pack introduces common folder structure, which will be used by future releases of management packs for different components of SQL Server. The following views and dashboards are version-independent and show information about all versions of SQL Server:

 SQL Server 2017

Active Alerts



 All Performance Data

Database Engines



Databases



 Filegroups

Summary

Task Status



 SQL Server 2017 on Linux

Active Alerts

 All Performance Data

 Database Engines

 Databases

 Filegroups

Summary

Task Status



 SQL Server 2017 on Windows

Active Alerts

 All Performance Data

 Database Engines

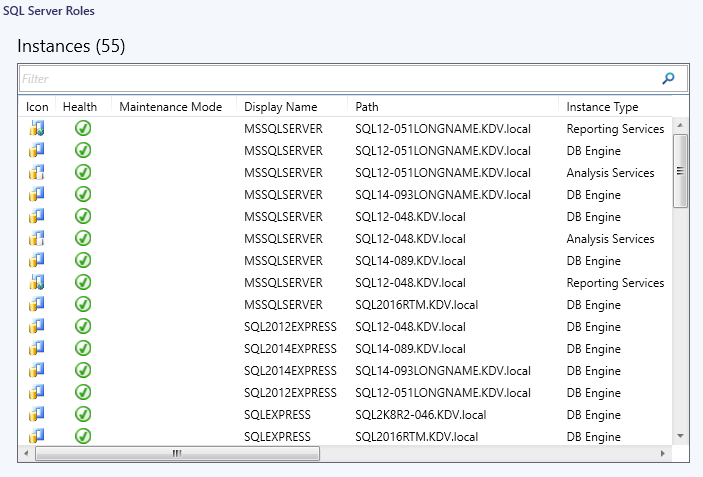
 Databases

 Filegroups

Summary

Task Status

“SQL Server Roles” dashboard provides an information about all instances of SQL Server Database Engine, SQL Server Reporting Services, SQL Server Analysis Services and SQL Server Integration Services:



### SQL Server 2017 Views

The Management Pack for Microsoft SQL Server 2017 introduces the comprehensive set of state, performance and alert view, which can be found in the dedicated folder:

Monitoring

Microsoft SQL Server

SQL Server Database Engines

SQL Server 2017

Note

Some views may contain very long list of objects or metrics. To find a specific object or group of objects, you can use the Scope, Search, and Find buttons on the Operations Manager toolbar. For more information, see “[Finding Data and Objects in the Operations Manager consoles](http://go.microsoft.com/fwlink/?LinkId=717834)” article in the Operations Manager Help.

## Appendix: Management Pack Objects and Workflows

The Management Pack for Microsoft SQL Server 2017 discovers the object types described in the following sections. Not all of the objects are automatically discovered. Use overrides to discover those objects that are not discovered automatically.

**MSSQL 2017 on Linux: Agent**

The SQL Server 2017 Agent component that runs as part of a Microsoft SQL Server 2017 Database Engine on Linux.

**MSSQL 2017 on Linux: Agent - Discoveries**

**MSSQL 2017 on Linux: Discover SQL Server 2017 Agent for a Database Engine**

This rule discovers the SQL Server Agent for an instance of SQL Server 2017 DB Engine on Linux. There could be only one SQL Server Agent instance for each DB Engine instance.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Agent - Unit monitors**

**Long Running Jobs**

This monitor checks for long running SQL Agent jobs.   
Note that SQL Server Agent Service is not supported by any edition of SQL Server Express; there is no appropriate discovered object. This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Critical Threshold (minutes) | The monitor will change its state to Critical if the value exceeds this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 120 | | Included continuously executed jobs | Some SQL Agent Jobs may run infinitely (until Agent stops). They usually have schedule type 'Start automatically when SQL Server Agent starts'. For example, SQL Server Replication often uses such jobs. These jobs lead to false alerts and by default monitor doesn't takes them in account. But there may be exclusions when such jobs run for a short time. In order to monitor such jobs one should define a list of these jobs' names delimited by comma. |  | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 600 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold (minutes) | Warning threshold. Exceeding this threshold will result in the monitor changing to at least a warning state. | 60 | |  |
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**SQL Server Agent Service**

This monitor checks the status of the SQL Agent service for this instance of SQL Server.  
Note that SQL Server Agent Linux Service is not supported by any edition of SQL Server Express.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Alert only if service startup type is automatic | This may only be set to 'true' or 'false'. If set to 'false', then alerts will be triggered no matter what the startup type is set to. Default is 'true'. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 600 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Agent - Dependency (rollup) monitors**

**Agent Jobs Configuration**

Rolls up all Agent Jobs configuration monitors to the SQL Server Agent.

**Agent Jobs Performance**

Rolls up all Agent Jobs performance monitors to the SQL Server Agent.

**Agent Jobs Availability**

Rolls up all Agent Jobs availability monitors to the SQL Server Agent.

**Agent Jobs Security**

Rolls up all Agent Jobs security monitors to the SQL Server Agent.

**MSSQL 2017 on Linux: Agent Job**

All Microsoft SQL Server 2017 agent jobs on Linux.

**MSSQL 2017 on Linux: Agent Job - Discoveries**

**MSSQL 2017 on Linux: Discover SQL Server 2017 Agent Jobs**

This rule discovers all SQL Server 2017 Agent Jobs on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Agent Job - Unit monitors**

**Last Run Status**

SQL 2017 Agent Job on Linux Last Run State Monitor. Monitors the last run state of an SQL Agent Job.  
Note that SQL Server Agent Linux Service is not supported by any edition of SQL Server Express; there is no appropriate discovered object.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 600 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Job Duration**

Monitors Agent Job Duration.  
Note that SQL Server Agent Linux Service is not supported by any edition of SQL Server Express; there is no appropriate discovered object.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Critical Threshold (minutes) | The monitor will change its state to Critical if the value exceeds this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 120 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 600 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold (minutes) | Warning threshold. Exceeding this threshold will result in the monitor changing to at least a warning state. | 60 | |  |
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**MSSQL 2017 on Linux: All SQL Server Filegroups Group**

All SQL Server Filegroups Group on Linux contains all SQL Server filegroups such as database Filegroups, Memory-Optimized Data Filegroups, FILESTREAM Filegroups on Linux.

**MSSQL 2017 on Linux: All SQL Server Filegroups Group - Discoveries**

**MSSQL 2017 on Linux: All SQL Server Filegroups Group Discovery**

Discovery of All SQL Server Filegroups Group on Linux.

**MSSQL 2017 on Linux: All SQL Server Objects Group**

The SQL Server 2017 All SQL Server objects Group on Linux contains SQL Server objects, which can raise alerts.

**MSSQL 2017 on Linux: All SQL Server Objects Group - Discoveries**

**MSSQL 2017 on Linux: All SQL Server Objects Group Discovery**

Discovery of MSSQL 2017 All SQL Server Objects Group on Linux.

**MSSQL 2017 on Linux: Custom User Policy**

Microsoft SQL Server 2017 Custom User Policy object on Linux.

**MSSQL 2017 on Linux: Custom User Policy - Discoveries**

**MSSQL 2017 on Linux: Discover Database Custom User Policy**

This rule discovers Custom User Policies for SQL Server 2017 Database on Linux. Note: This discovery is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database**

Microsoft SQL Server 2017 Database on Linux.

**MSSQL 2017 on Linux: Database - Discoveries**

**MSSQL 2017 on Linux: Discover SQL Server 2017 Databases for a Database Engine**

This rule discovers all databases running for a given instance of SQL Server 2017 DB Engine on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database - Unit monitors**

**DB Free Space Left**

Monitors the space available in the database and on the media hosting the database in percentage terms. Note: This monitor is disabled by default. Please use overrides to enable it when necessary. This monitor does not count free space for FILESTREAM and Memory-Optimized Data file groups.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change its state to Critical if the value drops below this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Warning Threshold | The monitor will change its state to Warning if the value drops below this threshold. | 20 | |  |
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**Auto Update Statistics Async Configuration**

Monitors the Auto Update Atatistics Asynchronously setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Page Verify Configuration**

Monitors the Page Verify setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | CHECKSUM | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**DB Chaining Configuration**

Monitors the Cross-database Ownership Chaining Enabled setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Database Status**

This monitor checks the status of the database as reported by Microsoft SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**DB Disk Write Latency**

Monitors the disk Write latency from all logical disks which host database files.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Critical Threshold | The monitor will change its state to Critical if the value exceeds this threshold. | 25 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**Recovery Model Configuration**

Monitors the Recovery model setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | FULL | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Auto Update Statistics Configuration**

Monitors the Auto Update Statistics setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | ON | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**DB Disk Read Latency**

Monitors the disk Read latency from all logical disks which host database files.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Critical Threshold | The monitor will change its state to Critical if the value exceeds this threshold. | 40 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**Database Backup Status**

This monitor checks the status of the database backup as reported by Microsoft SQL Server. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Backup Period (days) | The target backup frequency in days. Should be set according to your Recovery Point Objective (RPO). | 7 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 86400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**DB Space Percentage Change**

Monitors for a significant decrease of database free space over a number of sample periods. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change its state to Critical if the value exceeds this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 45 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 5 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Warning Threshold | Warning threshold. Exceeding this threshold will result in the monitor changing to at least a warning state. | 25 | |  |
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**Auto Shrink Configuration**

Monitors the Auto Shrink setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Auto Close Configuration**

Monitors the Auto Close setting for the database on Linux. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Auto Create Statistics Configuration**

Monitors the Auto Create Statistic setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | ON | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Transaction Log Free Space (%)**

Transaction Log Free Space (%) monitor for SQL 2017 DBs on Linux. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Threshold | The collected value will be compared against this parameter. | 10 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
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**Trustworthy Configuration**

Monitors the Trustworthy setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database - Aggregate monitors**

**DB Space**

Monitors the aggregate space health for the database.

**Automatic Configuration**

This monitor aggregates the health of automatic configuration monitors.

**External Access Configuration**

Monitors the aggregate external access configuration health for the database.

**Recovery Configuration**

Monitors the aggregate recovery configuration health for the database.

**MSSQL 2017 on Linux: Database - Dependency (rollup) monitors**

**Database Critical Policies Configuration**

Rolls up all Database Critical Policies configuration monitors to the Database.

**Resources Pool Memory Consumption (rollup)**

The monitor reports a critical state and raises an alert when the amount of memory used by the resource pool is greater than the Threshold setting, expressed as a percentage of memory available for Memory-Optimized Data tables for the given resource pool. This monitor is a dependency (rollup) monitor.

**DB Memory-Optimized Data Filegroups Security**

Rolls up all DB Memory-Optimized Data Filegroups security monitors to the Database.

**Database Critical Policies Security**

Rolls up all Database Critical Policies security monitors to the Database.

**DB Log Files Configuration**

Rolls up all DB Log Files configuration monitors to the Database.

**Database Critical Policies Availability**

Rolls up all Database Critical Policies availability monitors to the Database.

**DB Filegroups Availability**

Rolls up all DB Filegroups availability monitors to the Database.

**Database Warning Policies Availability**

Rolls up all Database Warning Policies availability monitors to the Database.

**DB Log Files Availability**

Rolls up all DB Log Files availability monitors to the Database.

**DB Filegroups Performance**

Rolls up all DB Filegroups performance monitors to the Database.

**DB Log Files Security**

Rolls up all DB Log Files security monitors to the Database.

**Database Critical Policies Performance**

Rolls up all Database Critical Policies performance monitors to the Database.

**DB Memory-Optimized Data Filegroups Availability**

Rolls up all DB Memory-Optimized Data Filegroups availability monitors to the Database.

**DB Memory-Optimized Data Filegroups Performance**

Rolls up all DB Memory-Optimized Data Filegroups performance monitors to the Database.

**Database Warning Policies Performance**

Rolls up all Database Warning Policies performance monitors to the Database.

**DB Log Files Performance**

Rolls up all DB Log Files performance monitors to the Database.

**Database Warning Policies Security**

Rolls up all Database Warning Policies security monitors to the Database.

**DB Filegroups Security**

Rolls up all DB Filegroups security monitors to the Database.

**Database Warning Policies Configuration**

Rolls up all Database Warning Policies configuration monitors to the Database.

**DB Memory-Optimized Data Filegroups Configuration**

Rolls up all DB Memory-Optimized Data Filegroups configuration monitors to the Database.

**DB Filegroups Configuration**

Rolls up all DB Filegroups configuration monitors to the Database.

**MSSQL 2017 on Linux: Database - Rules (non-alerting)**

**MSSQL 2017 on Linux: DB Active Connections Count**

SQL 2017 on Linux DBs Active Connections performance collection rule

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Disk Write Latency (ms)**

Collects maximum disk Write latency from all logical disks which host database files.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Disk Read Latency (ms)**

Collects maximum disk Read latency from all logical disks which host database files.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: DB Free Space Total (%)**

The amount of space left in database for all files in all Filegroups for this database in percentage terms. Also, includes space left on media hosting a file with auto grow enabled.   
Please note that this rule collects metrics for ROWS data only. Metrics for FILESTREAM and for Memory-Optimized Data data are ignored.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Active Sessions Count**

SQL 2017 on Linux DBs Active Sessions performance collection rule

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Transactions per Second Count**

SQL 2017 on Linux DBs Transactions per second performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Active Requests Count**

SQL 2017 on Linux DBs Active Requests performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Free Outer Space (MB)**

SQL 2017 on Linux DBs Free Outer Space (MB) performance collection rule

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Active Transactions Count**

MSSQL 2017 on Linux DBs Active Transactions performance collection rule

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Allocated Free Space (MB)**

SQL 2017 on Linux DB Allocated Free Space (MB) performance collection rule

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: DB Free Space Total (MB)**

The amount of space left in database for all files in all Filegroups for this database in megabytes. Also, includes space left on media hosting a file with auto grow enabled.   
Please note that this rule collects metrics for ROWS data only. Metrics for FILESTREAM and for Memory-Optimized Data data are ignored.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Allocated Space (MB)**

Collect database allocated size

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Allocated Space Used (MB)**

SQL 2017 on Linux DBs Allocated Space Used (MB) performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Transaction Log Free Space Total (%)**

Collects unused transaction log space reported by SQL Server as a percentage of total transaction log space

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database - Tasks**

**Check Catalog (DBCC)**

Checks for catalog consistency within the specified database. The database must be online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Check Database (DBCC)**

Checks the allocation, structural, and logical integrity of all the objects in the specified database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Set Database Offline**

Set Database Offline

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Set Database Online**

Set Database Online

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Set Database to Emergency State**

Set Database to Emergency State

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Check Disk (DBCC)**

Checks the consistency of disk space allocation structures for a specified database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database - Console Tasks**

**SQL Management Studio**

**SQL Profiler**

**MSSQL 2017 on Linux: Database Critical Policy**

Microsoft SQL Server 2017 on Linux Custom User Policy, which has a Database as the Facet and one of the error categories as Policy Category.

**MSSQL 2017 on Linux: Database Critical Policy - Unit monitors**

**Database Health Policy**

Two-state monitor with 'Error' critical state used particularly for reflecting state of Custom User Policies, which have Database as Facet and one of the predefined error categories as Policy Category.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database Warning Policy**

Microsoft SQL Server 2017 on Linux Custom User Policy, which has a Database as the Facet and one of the warning categories as Policy Category.

**MSSQL 2017 on Linux: Database Warning Policy - Unit monitors**

**Database Health Policy**

Two-state monitor with 'Warning' critical state used particularly for reflecting state of Custom User Policies, which have Database as Facet and one of the predefined warning categories as Policy Category.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Engine**

An installation of a Microsoft SQL Server 2017 Database Engine on Linux. The database engine hosts databases and other SQL Server components.

**MSSQL 2017 on Linux: DB Engine - Discoveries**

**MSSQL 2017 on Linux: Discover SQL Server 2017 Database Engines**

This rule discovers SQL Server 2017 DB Engine on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Engine - Unit monitors**

**Thread Count**

Thread Count for 2017 DB Engine

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Minimum Free Threads Threshold | The workflow determines the maximum number of threads and the number of active threads for each DB Engine process. An alert will be generated if the number of free threads is less or equal than this parameter. | 10 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Blocking Sessions**

Monitors blocked sessions for a SQL instance on Linux. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of blocked sessions | The maximum allowed number of blocked sessions. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Wait Time (minutes) | The minimum process execution duration before considering it for Blocked SPIDs analysis. | 1 | |  |
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**DMV Configuration Status**

This monitor checks the status of DMV access configuration on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**Service Pack Compliance**

Monitors the service pack level of the database engine against the compliant setting.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Minimal Service Pack level for SQL Server 2017 | The minimal Service Pack level as per company policy. By default, it equals to 0 (integer). | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Managed Backup System Health Policy**

The Managed Backup System Health Policy evaluates critical errors like lack of or invalid SQL Credentials, connectivity errors and reports the health of the system.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**Managed Backup User Action Health Policy**

The Managed Backup User Action Health Policy evaluates warnings such as corrupted backups, and such.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**Stolen Server Memory**

Stolen Server Memory for 2017 DB Engine

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | Alert will be generated if the Stolen Server Memory/SQL Server max memory ratio is greater than this threshold. | 70 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Buffer Cache Hit Ratio**

Buffer Cache Hit Ratio for 2017 DB Engine

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected value will be compared against this parameter. | 0 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Average Wait Time**

Average Wait Time monitor for 2017 DBs

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected value will be compared against this parameter. | 250 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**SQL Full-text Filter Daemon Launcher Service**

This monitor checks the status of the SQL 2017 Full-text Filter Daemon Launcher service. Note that SQL Full-text Search feature is not available in any edition of SQL Server Express, except SQL Server Express with Advanced Services. This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Alert only if service startup type is automatic | This may only be set to 'true' or 'false'. If set to 'false', then alerts will be triggered no matter what the startup type is set to. Default is 'true'. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 600 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**DB Engine Health Status**

This monitor checks the health state of the SQL Server 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**SQL Re-Compilation**

SQL Re-Compilation for 2017 DB Engine. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | If the ratio between SQL Re-Compilation and SQL Compilation is greater than this threshold alert will be generated. | 25 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Page Life Expectancy**

Page Life Expectancy (s) for 2017 DB Engine

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected value will be compared against this parameter. | 300 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Engine - Dependency (rollup) monitors**

**Databases Security**

Rolls up all Databases security monitors to the DB Engine.

**Databases Availability**

Rolls up all Databases availability monitors to the DB Engine.

**Databases Performance**

Rolls up all Databases performance monitors to the DB Engine.

**Databases Configuration**

Rolls up all Databases configuration monitors to the DB Engine.

**MSSQL 2017 on Linux: DB Engine - Rules (alerting)**

**MSSQL 2017 on Linux: Database Backup Failed To Complete**

BACKUP failed to complete the command.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cannot start SQL Server Service Broker on a database**

The rule triggers an alert when SQL Server cannot start Service Broker on a database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Optimized concurrent query limit has been exceeded**

You are using an edition of SQL Server that is licensed for a limited number of concurrent queries. This includes the Personal and Desktop editions. Those editions have a concurrent workload governor that limits them to a specific number of concurrent user queries plus a smaller number of concurrent system tasks.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Internal Query Processor Error: The query processor could not obtain access to a required interface**

This is an internal query processor error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not open tempdb. Cannot continue**

The tempdb database could not be opened. The possible reasons for this could include:

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XTP Compiler Failure**

The rule listens to event 41313 and raises a warning alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Wrong PageId in the page header**

DBCC asked for page P\_ID1. When the page was read from disk, the page ID in its header was found to be P\_ID2.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Common Language Runtime (CLR) not installed properly**

This installation of the Common Language Runtime (CLR) is corrupted. The CLR is installed with the Microsoft .NET Framework.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: A SQL Server Service Broker procedure output results**

A stored procedure, which was internally activated by SQL Server Service Broker, output results. Internal procedures should not output results. The event in the Linux application log contains the procedure name, the queue name, and the output results. The event is logged as MSSQLSERVER event ID 9724. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 0 | | Severity | Defines Alert Severity. | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database consistency check performed with no errors**

This message indicates a database consistency check has been run but no errors were encountered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 0 | | Severity | Defines Alert Severity. | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not create an instance of OLE DB provider**

The rule triggers an alert when SQL Server could not create an instance of an OLE DB provider to connect to a linked server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Operating System error encountered**

This message indicates that an error of some sort was returned from the operating system to a process within SQL Server. The process listed at the beginning of the message indicates which function within SQL Server received the error from the operating system. The exact operating system error number and text at the end of the message will vary depending on what problem the operating system encountered. This error is usually seen in conjunction with other errors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The query has been canceled because the estimated cost of this query exceeds the configured threshold. Contact the system administrator**

The configuration setting for the query governor cost limit option is lower than the cost the SQL Server optimizer estimated for the specified query. By default, the query governor cost limit option is set to 0, which allows all queries to run. However, on this instance of SQL Server an upper limit was specified by setting the option to a number greater than 0. Query plans with an anticipated cost larger than this value are not started.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Table missing or invalid key in index for the row:**

Every data row in a table (heap or clustered index) must have exactly one matching index row in every non-clustered index over that table. This error means that a non-clustered index is missing an index row.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database consistency errors found**

This message indicates a database consistency check has encountered errors and none or not all of the errors were repaired.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Login failed. The workstation licensing limit for SQL Server access has already been reached**

SQL Server will not provide connections to workstations after the licensing limit has been reached.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Login failed: Error during validation**

A user attempted to log in to SQL Server. An unexpected error occurred during validation. The Linux security log will identify the user name and error ID under MSSQLSERVER event ID 18468.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: AppDomain failed to unload with error code**

The rule triggers an application domain fails to unload because of some error. The Linux application log may contain an information about the original error code and other diagnostic details

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: No slots are free to keep buffers for table**

This is raised when SQL Server 2017 has an internal error.

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**MSSQL 2017 on Linux: Login failed: Password expired**

A user attempted to log into SQL Server with an expired password. The Linux security log will identify the user name under event ID 18487.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Page in its header is allocated by another object**

A page has the object/index ID specified but is not allocated by any of that index's IAM pages. The page has an incorrect object/index ID in its header, so there will be a matching 2533 (page not seen although allocated) error for the page. The 2533 error corresponds to the index the page is really allocated to.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Service Broker cannot use RC4 encryption algorithm when running in FIPS compliance mode**

SQL Server Service Broker has a conversation where at least one endpoint has been configured to use RC4 encryption and the server is set for Federal Information Processing Standard (FIPS) compliance mode. RC4 encryption is not supported when running in FIPS compliance mode.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Index node page refers to child page and previous child, but they were not encountered**

An index page (P\_ID1) in a B-tree has child references to two neighboring lower-level pages (P\_ID2 and P\_ID3), but neither was seen.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to create AppDomain**

The rule triggers an alert when an application tried to create an application domain, but failed. This may be caused when there is not enough memory to start the application domain.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: IAM chain linkage error**

There is a break in the IAM chain for the index specified. A page P\_ID2 is pointed to by the next page pointer of page P\_ID1, but page P\_ID2's previous page pointer points to a different page, P\_ID3. Both error states mean the same, and only differ in where the corruption was discovered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: An error occurred in a SQL Server Service Broker/Database Mirroring transport connection endpoint**

SQL Server uses Service Broker and Database Mirroring endpoints for communication outside of the SQL Server instance.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Service Broker was not able to allocate memory for cryptographic operations**

The rule triggers an alert when SQL Server Service Broker is not able to allocate memory for cryptographic operations.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: An error occurred in the SQL Server Service Broker or Database Mirroring transport manager**

An error occurred in the SQL Server Service Broker or Database Mirroring transport manager. The Linux application log or SQL Server error log may identify the specific error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Internal Query Processor Error: The query processor encountered an internal limit overflow**

This is an internal query processor error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not allocate new page for database. There are no more pages available in Filegroup.**

Space can be created by dropping objects, adding additional files, or allowing file growth.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: The text, ntext, or image node at page is referenced by page not seen in the scan**

The text node was not referenced in any complex column in any heap or clustered index. It is effectively orphaned.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: CHECKTABLE processing of object encountered page twice. Possible internal error or allocation fault**

Page P\_ID was encountered twice during the course of the scan.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XTP Background Thread Error**

The rule listens to event 41354 and raises a warning alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Out Of Memory**

SQL Server has failed to allocate the sufficient amount of memory to run the query.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cannot start service broker manager due to operating system error**

The rule triggers an alert when SQL Server cannot start service broker manager due to operating system error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XML : Size of data chunk requested from the stream exceeds allowed limit**

SQL Server received an XML document that exceeds the allowed limit.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Allocation page has invalid page header values.**

The page specified has an invalid page header.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not write a CHECKPOINT record in database because the log is out of space**

The transaction log for the specified database has reached its capacity. The limit could be due to a configuration setting or to the amount of physical space available for one or more of the files configured for this database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Potential deadlocks exist on all schedulers on Node**

This message is raised when the server fails to respond to new queries within a certain time limit.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Transaction was deadlocked on resources with another process and has been chosen as the deadlock victim. Rerun the transaction**

This error occurs when Microsoft SQL Server encounters a deadlock. A deadlock occurs when two (or more) processes attempt to access a resource that the other process holds a lock on. Because each process has a request for another resource, neither process can be completed. When a deadlock is detected, SQL Server rolls back the command that has the least processing time and returns error message 1205 to the client application. This error is not fatal and may not cause the batch to be terminated.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Unable to open the physical file**

SQL Server has failed to open the physical file..

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: cross-object chain linkage**

The first phase of a DBCC CHECKDB is to do primitive checks on the data pages of critical system tables. If any errors are found, they cannot be repaired and so the DBCC CHECKDB terminates immediately.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Checksum failure while page in cache**

It is detected that a database page has been unexpectedly modified while in cache (by verifying the page checksum).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: The low key value on page is not the key value in the parent**

A B-tree tree level page contains a record for each child page, along with a key value for that child page. If the child page is a leaf-level page (that is, level 0), all records on the page must have key values greater than or equal to the key value in the parent page. If the child page is a tree-level page (that is, level > 0), all records must have key values greater than the key value in the parent, except the first record, which must have a key value that exactly matches that in the parent.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: An error occurred while reading the log for database**

This error indicates a failure while processing the transaction log during rollback, recovery, or replication.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Login failed: Password too simple**

A user attempted to create a password, but the proposed password did not meet the Linux password complexity requirements policy. These are defined in the Password must meet complexity requirements policy setting. The Linux security log will identify the user name under MSSQLSERVER event ID 18466.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not open referenced table**

You are trying to add, drop, or modify a constraint on a table that has a schema stability lock (LCK\_M\_SCH\_S or Sch-S) held on it. The schema stability lock is not compatible with DDL. The lock may be held by a query involving this table that is taking a long time to compile.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Full Text Search: Search on full-text catalog failed with unknown result**

The full-text query failed for an unspecified reason.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XTP Unable Load Compiled Dll**

The rule listens to event 41309 and raises a warning alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: An error occurred in the SQL Server Service Broker message dispatcher**

An error occurred in the SQL Server Service Broker message dispatcher. The Linux application log or SQL Server error log may identify the specific error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Test failed. Slot overlaps with the prior row**

Slot S\_ID's offset in the slot offset array is not greater than or equal to the end of the previous slot, so they overlap. TEST is 'sorted [i].offset >= max', where the lhs of the expression is the ADDRESS, and 'max' is the end of the previous slot.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Service Broker cryptographic operation failed**

The rule triggers an alert when SQL Server Service Broker cryptographic operation fails.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not create a statement object using OLE DB provider**

The rule triggers an alert when SQL Server fails to create a statement object with the OLE DB provider connected to a linked server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XML : FOR XML EXPLICIT stack overflow occurred. Circular parent tag relationships are not allowed**

The XML is not well-formed because the element tag nesting level has exceeded the number of columns in the table, one or more tags is self-referencing, or both. For more information about FOR XML EXPLICIT, see "Using EXPLICIT Mode" in Books Online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Internal Query Processor Error: The query processor encountered an unexpected error during execution**

This is an internal query processor error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Recovery of database detected possible identity value inconsistency in table**

The database recovery process could not determine the current identity value for the specified table.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Full Text Search: An unknown full-text failure occurred**

This error can occur in various circumstances. It is often related to permissions or missing files.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Address is not aligned**

The structure at address ADDRESS is not 4-byte aligned.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Service Broker attempted to use an unsupported encryption algorithm**

The rule triggers an alert when SQL Server Service Broker tries to use an unsupported encryption algorithm.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: The next pointer of refers to page. Neither its parent were encountered. Possible bad chain linkage**

A page (P\_ID1) references its next page in the page chain (P\_ID2), but page P\_ID2 was not seen and was not referenced by any parent page in the B-tree.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: An error occurred in the Service Broker queue rollback handler**

SQL Server Service Broker raises MSSQLSERVER event ID 8405 when an error prevents Service Broker from disabling a queue during a rollback.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to initialize the Common Language Runtime (CLR) due to memory pressure**

Linux could not allocate memory for the Microsoft Common Language Runtime (CLR) to initialize.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: The high key value on page is not less than the low key value in the parent, slot of the next page**

A B-tree tree-level page contains a record for each child page, along with a key value for that child page. If the child page is a leaf-level page, all records on the page must have key values greater than or equal to the key value in the parent page. If the child page is a tree-level page, all records must have key values greater than the key value in the parent, except the first record, which must have a key value that exactly matches that in the parent.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not connect to server because it is not defined as a remote login at the server**

Setting up security for executing remote procedure calls (RPC) against a remote server involves setting up login mappings in the remote server and possibly in the local server running an instance of Microsoft SQL Server. The mapping is specific to a given server\instance name, usually the NetBIOS name for a default instance and the NetBIOS name plus the instance name for a named instance. If the login mapping does not exist or if the name of the server specified in the connection string does not match the exact name in the sysremotelogins table, and the guest account does not have a mapping in sysremotelogins , you will receive this error. You will also see this error if the remote user is found to have a null or empty login name.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: IAM page is linked in the IAM chain for object**

All IAM pages for an index must have the same index ID on them. In this case, one of the IAM pages linked into the IAM chain for index I\_ID2 has index ID I\_ID1 on it. There are three possible states of this error; they all mean the same thing, but differ in where the discovery is made.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: An error occurred in the Service Broker manager**

The rule triggers an alert when an error occurred in the SQL Server Service Broker manager.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Page was not seen in the scan although its parent and previous refer to it. Check any previous errors**

A page (P\_ID1) in a B-tree was not seen, even though an index page (P\_ID2) points to it as a child page and its previous page (P\_ID3) in the page chain points to it as the next page in the chain. This can happen at any level of the B-tree. Both error states mean the same thing; they differ only in where the error was discovered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: One or more indexes are damaged and must be repaired or dropped**

This error provides more details about the problem described in error 8952. See that error for an explanation.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The LSN passed to log scan in database is invalid**

If you see this message during startup when the SQL Server process tries to recover the database or as a result of an ATTACH statement, the log file for the database is corrupted. If you see the message during a restore process, the backup file is corrupted. If you see this message during a replication process, the replication metadata may be incorrect.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not resolve the referenced column name in table**

This error occurs when you try to modify data in a table with a foreign key that references a column that no longer exists in the referenced table. Merely renaming a column will not cause this error. Under normal circumstances, a column referenced by a foreign key cannot be dropped, so this error may indicate that unsupported direct system table updates have occurred.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XML: Failed to load Msxml2.dll**

The Msxml2.dll file is missing from the computer where SQL Server is installed, or it could not be loaded from the system directory while processing an XML feature such as sp\_xml\_preparedocument. If the file exists, it may not be registered properly, or one of its dependencies may not exist.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Cross object linkage: Parent page in object next refer to page not in the same object**

The next page pointer of page P\_ID2 and a child page pointer of page P\_ID1 in a B-tree of the specified object points to a page (P\_ID3) in a different object. Furthermore, pages P\_ID1 and P\_ID2 may themselves be in different objects.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database consistency errors found and repaired**

This message indicates a database consistency check has encountered errors and all of the errors were repaired.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to initialize the Common Language Runtime (CLR) with HRESULT**

The rule triggers an alert when an assembly or an application fails to start and logs an HRESULT error. The Linux application log may contain an information about specific HRESULT.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Login failed: Password must be changed**

A user attempted to log into SQL Server with a password that was set to the MUST\_CHANGE option. The user will be identified in the Linux security log under MSSQLSERVER event ID 18488.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Permission denied on object**

This error occurs when a Microsoft SQL Server user attempts an action, such as executing a stored procedure, or reading or modifying a table, for which the user does not have the appropriate privileges.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not open error log file**

When installing Microsoft SQL Server on an NTFS partition, make sure that the NTFS file permissions allow read/write access. Otherwise, this error message may appear in the Linux application log (for each installation attempt).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The Service Broker or Database Mirroring Transport has started**

SQL Server Service Broker or Database Mirroring transport has started. The Linux application log specifies whether the error was recorded by Service Broker or Database Mirroring the application name. This message is logged in the Linux application log as MSSQLSERVER event ID 9690. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 0 | | Severity | Defines Alert Severity. | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Service Broker transmitter shut down due to an exception or a lack of memory**

The rule triggers an alert when SQL Server Service Broker transmitter stopped due to an error or a lack of memory. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The server is too busy to perform the backup or restore operation**

Failed to start a sub-process (a parallel query or parallel I/O) because no threads are available or too many sub-processes executing.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cannot start service broker security manager**

Service Broker security manger could not start.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Invalid reference to File ID**

This error occurs when SQL Server uses an invalid file ID while performing some operation. This error can occur for several different scenarios.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cannot start service broker activation manager**

The rule triggers an alert when service broker fails to start the activation manager.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Full Text Search: Full-text catalog is in an unusable state. Drop and re-create this full-text catalog**

The full-text catalog is offline. The full-text directory has been deleted, is corrupt, or the path points to a location that is not valid.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Starting without recovery**

SQL Server is starting without recovery.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Slot, row extends into free space**

The end of the slot S\_ID is past the persisted free space offset, ADDRESS. TEST is 'max <= m\_freeData', where the persisted free space offset if 'm\_freeData' and the end of slot S\_ID is 'max'.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Error while undoing logged operation in database**

The recovery process could not undo (roll back) one or more transactions in the specified database. This error will be accompanied by a more specific error in the SQL Server error log and/or the event log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Maximum limit for connections has been reached**

By default, SQL Server dynamically manages the memory needed for user connections. However, the maximum number of connections can be set to a fixed value by setting the user connections configuration option to a value other than 0. Setting the user connections option to a non-zero value is not recommended. If this option is set to a non-zero value and the specified number of connections is exceeded, any additional login attempts will fail with the above message. If the value is set to 1, the SQL Server instance may not start.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: RESTORE could not start database**

Internal structures could not be created during the database RESTORE. This is usually the side effect of another error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: CHECKTABLE terminated. A failure was detected while collecting facts.**

Possibly tempdb out of space or a system table is inconsistent. Check previous errors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XML : XML document could not be created because server memory is low. Use sp\_xml\_removedocument to release XML documents**

When you execute sp\_xml\_preparedocument , a parsed XML document is stored in the internal cache of SQL Server 2000. The MSXML parser uses up to one-eighth the total memory available for SQL Server. There is not enough memory in the portion of cache allocated to MSXML to open the document specified in the sp\_xml\_preparedocument statement. This may be because the specified document is very large or because documents already in that memory space do not leave enough space for the new document.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not mark database as suspect. Getnext NC scan on sysdatabases.dbid failed**

The SQL Server recovery process tried to turn on the suspect flag for the specified database, but it could not find the appropriate row in sysdatabases or could not update the database information in memory. The reason the database needs to be marked suspect should be indicated by other messages in the SQL Server error log or the Event Viewer.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XML : XML parsing error**

This message passes through XML parsing errors. The text after "XML parsing error:" will vary. The cause will depend on the exact XML parsing error passed through.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: An error occurred while processing SQL Server Service Broker mirroring routes**

The rule triggers an alert when an error occurres while processing SQL Server Service Broker mirroring routes

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: An error occurred in the SQL Server Service Broker message transmitter**

SQL Server Service Broker message transmitter detected an error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to finish full-text operation. The Filegroup is empty, read-only, or not online**

The full-text operation did not finish because the Filegroup is empty, read-only, or not online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: A default full-text catalog does not exist in the database or user does not have permission to perform this action**

The full-text catalog does not exist, or the user does not have the appropriate permission to create a full-text index in the catalog.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The MSSQLServer service terminated unexpectedly**

The error is reported by the SQL Server Agent service when it auto restarts SQL Server. SQL Server Agent will only auto restart SQL Server if SQL Server stopped for some reason other than an explicit stop command from a user or application, and if the “Auto restart SQL Server if it stops unexpectedly” option is selected in SQL Server Agent Advanced properties. During the restart of SQL Server, SQL Server Agent will write this message to the application event log on the computer hosting SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XML: Failed to instantiate class. Make sure Msxml2.dll exists in the SQL Server installation**

The Msxml2.dll file is missing from the computer where SQL Server is installed, or it could not be loaded from the system directory while processing an XML feature such as sp\_xml\_preparedocument. If the file exists, it may not be registered properly, or one of its dependencies may not exist.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to allocate memory for Common Language Runtime (CLR)**

The rule triggers an alert when SQL Server is unable to allocate memory for CLR.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: CREATE DATABASE failed. Could not allocate enough disk space for a new database on the named disks**

This error occurs when there is not enough space on the device to create the model database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: A SNI call failed during a Service Broker/Database Mirroring transport operation**

The rule triggers an alert when a SNI call fails during a Service Broker/Database Mirroring transport operation. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XTP Unable Call Compiler**

The rule listens to event 41312 and raises a warning alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The I/O operation was successful after retry**

A read operation on a database page or transaction log block was successful but only after retrying the operation. While you may not need to take immediate action, you should research the cause of the error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Unexpected end of file while reading beginning of backup set**

The RESTORE operation failed because it could not read some portion of the backup file specified in the FROM clause. This error generally indicates that the file specified is a pre-SQL Server 7.0 backup or that the file is damaged.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Extra or invalid key**

Every data row in a table (heap or clustered index) must have exactly one matching index row in every non-clustered index over that table. This error means that a non-clustered index has an index row that does not match any data row.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Service Broker Manager has shutdown**

The rule triggers an alert when the SQL Server Service Broker Manager has shutdown. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: An SQL Server Service Broker dialog detected an error**

The rule triggers an alert when a SQL Server Service Broker dialog detects an error

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to drop column from table**

sp\_repldropcolumn failed to drop the specified column on the publication database. The error could result from a failed system table update or from a failure of the underlying ALTER TABLE statement.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: CREATE FILE encountered operating system error**

CREATE FILE encountered operating system error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Indexed view does not contain all rows that the view definition produces.**

Refer to Books Online for more information on this error. This does not necessarily represent an integrity issue with the data in this database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not find CHECK constraint, although the table is flagged as having one**

This error can occur when the creation of a constraint failed but for some reason the creation was not completely rolled back. It can also be caused by data consistency issue with the system tables in the database where the table listed in the message resides.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: The previous link on page does not match the previous page that the parent, slot expects for this page**

A B-tree is structured so that pages at a single level point to each other, in a doubly-linked list. Also, the pages' parent in the B-tree has a record for each of its children, with their keys and page IDs.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: page is out of the range of this database**

The page specified is marked as allocated, but is beyond the in-use portion of the file in which it resides (except in certain states, as described below).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table: Creating statistics for the following columns**

sp\_createstats has generated statistics for each eligible column in the current database. Computed columns and columns of the ntext, text, or image data types cannot be specified as statistics columns. Columns already having statistics are not touched (for example, the first column of an index or a column with explicitly created statistics). Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Login failed**

When a connection attempt is rejected because of an authentication failure that involves a bad password or user name, a message similar to the following is returned to the client: "Login failed for user 'user\_name'. (Microsoft SQL Server, Error: 18456)".

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: The text, ntext, or image node has wrong type**

The text node is on the wrong text page type. If the parent (owner) of the node can be found, there will be an accompanying 8929 message providing details about the owner.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Cross object linkage. Page PGID->next is not in the same index**

Page P\_ID is linked to page P\_ID2 but the two pages are allocated to different indexes and/or objects.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XTP Background Thread Error Log**

The rule listens to event 41355 and raises a warning alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Process Worker appears to be non-yielding on Scheduler**

This error indicates that there is a possible problem with a thread not yielding on a scheduler. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Login failed: Password cannot be used at this time**

A user attempted to change the password, but the proposed password could not be used at this time. The Linux security log will identify the user name under MSSQLSERVER event ID 18463.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Object, index, page Test failed. Slot - Offset is invalid**

The slot specified has an invalid offset (ADDRESS) in the page, according to the slot array.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Unique table computation failed**

Unique tables are used by the database client drivers, like Microsoft Access driver for SQL Server, to build updateable queries. For a given SELECT statement, the unique table identifies the table whose row values appear at most once in the result set. When reselecting a row from a result set, the values from the key columns of the unique table are enough to identify the row. This error is raised when the server is unable to compute the unique table.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Service Broker or Database Mirroring Transport stopped**

The rule triggers an alert when at least one of the endpoints in a SQL Server Service Broker conversation has stopped listening for connections. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 0 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Internal Query Processor Error: The query processor ran out of stack space during query optimization**

The Query Processor is using a large but limited memory stack when optimizing queries. In some extreme situations the stack size may become a limit for a given very large query--for example, a query containing an inlist with 100,000 constants.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cannot determine the service account for SQL Server instance**

This error occurs when a Transact-SQL statement contains mismatched single or double quotes. The SET QUOTED\_IDENTIFIER setting will determine which combinations of single and double quotations marks are valid. For more information about SET QUOTED\_IDENTIFIER, see "SET QUOTED\_IDENTIFIER" in Books Online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Full Text Search: Could not find full-text index for database**

The specified full-text index is unavailable.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Operating system error on a device**

The backup device cannot be opened.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cannot recover the master database. Exiting.**

The master database is not in a recoverable state.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XML : XML error**

This message passes through XML errors generated outside of SQL Server. The text after "XML error:" will vary. The cause will depend on the exact XML error passed through.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Assertion**

SQL Server has raised an error. Under normal circumstances, SQL Server has posted a dump file in the log directory to help identify the actions that preceded the error. The error may have been caused by data corruption, an error in the client application, an error in SQL Server, network instability, or hardware failure.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Page is missing references from parent (unknown) and previous nodes. Possible bad root entry in sysindexes**

Page P\_ID1 was seen, but is not linked into the B-tree it thinks it belongs to.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not obtain exclusive lock on database**

You may receive this error stating a lock could not be obtained for the model database if the model database is in use when you issue any CREATE DATABASE statement. Since a new database is copied from the model database, the model database has to be in a state with no activity.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cannot open backup device.**

One or more of the files specified in a BACKUP or RESTORE command could not be opened. The potential reasons for this include:

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Parent node for page was not encountered**

Page P\_ID was seen in a B-tree, and is linked into the B-tree level it is at. However, no index page was seen that had a reference to the page as a child page. This can happen at any level of the B-tree.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cannot open user default database. Login failed**

When a client connects to a SQL Server instance without specifying a database context, the default database defined for its login is used. If that database is unavailable for any reason, the above message appears.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Column is not a valid complex column**

A column is marked as being a complex column in the record's variable length column section, but it is not a valid text pointer or in-row text root.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not find Filegroup ID in sys.Filegroups for database**

The metadata for a table contains a column ID that is greater than the largest column ID ever used in the table. This is a fatal error if the table is a system table, because the checks cannot continue when metadata is corrupt.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not recover database due to unresolved transaction outcomes**

The recovery process found pending transactions for the specified database. These transactions were either distributed transactions that used Microsoft Distributed Transaction Coordinator (MS DTC), or the transactions were single instance cross-database transactions. There is not enough information available for the recovery process to either commit or roll back one or more of those transactions.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: The text, ntext, or image node at page is not referenced**

The text node was not referenced in any complex column in any heap or clustered index. It is effectively orphaned.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to restore master database. Shutting down SQL Server**

The backup of the master database that you are restoring is not usable. The file itself may have been corrupted, or the original master database from which the backup was taken may have data integrity problems.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Unexpected page type**

Page P\_ID had a page type that was unexpected by the code trying to interpret it. The page is marked allocated, however, which is why the DBCC code is trying to interpret it.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not read and latch page**

The page read failed for some reason (see any accompanying errors), or a latch could not be taken (there may be latch timeout messages on the error log).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Conflict table does not exist**

This error occurs when you try to add or drop a column to a merge article, but the conflict table specified in sysmergearticles for the modified article does not actually exist in the database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The query processor could not start the necessary thread resources for parallel query execution**

Thread resources are scarce in the server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to open database or transaction log file**

An operating system error occurred when opening a transaction log file or a secondary database file of a database. The error message contains the specific operating system error encountered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Login failed: Password too short**

A user attempted to change the password, but the proposed password was too short. The Linux security log will identify the user name under MSSQLSERVER event ID 18464.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Full Text Search: Full-text catalog lacks sufficient disk space to complete this operation**

There is not enough disk space to hold the full-text catalog.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Login failed: Password too long**

A user attempted to create a password, but the proposed password was too long. The Linux security log will identify the user name under MSSQLSERVER event ID 18465.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database cannot be opened due to inaccessible files or insufficient memory or disk space**

Error 945 is returned when the database is marked IsShutdown . This occurs when a database cannot be recovered due to missing files, or some other resource error that usually can be corrected easily.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Extent object is beyond the range of this database**

P\_ID is a PageID of the form (filenum:pageinfile). The pageinfile of this extent is greater than the physical size of the file filenum of the database. The extent is marked allocated in an IAM page for the object/index ID indicated.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Cross object linkage**

The page P\_ID1 points, in a parent-child manner, to a page (P\_ID2) in a different object.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cannot create file**

SQL Server cannot create file because the file already exists.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Internal Query Processor Error: The query processor encountered an unexpected error during the processing of a remote query phase**

This is an internal query processor error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cannot start service broker manager**

The rule triggers an alert when SQL Server cannot start service broker manager.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Full Text Search: Full-Text Search is not enabled for the current database. Use sp\_fulltext\_database to enable Full-Text Search**

You have attempted to perform a full-text indexing in a database that is not enabled for full-text indexing. The database may have never been enabled for full-text, or it may have been restored or attached, which will automatically disable full-text indexing.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Service Broker or Database Mirror cryptographic call failed**

SQL Server Service Broker or Database Mirror attempted to call an operating system cryptographic function. The cryptographic function returned an error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Page is missing a reference from previous page. Possible chain linkage problem**

A page (P\_ID2) in a B-tree was not seen, even though its neighbor (P\_ID1) in the page chain points to it in its previous page link. This can happen in any level of the B-tree. Both error states mean the same thing; they differ only in where the error is discovered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not create AppDomain manager**

The rule triggers an alert when SQL Server fails to create an application domain manager

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server terminating because of system shutdown**

SQL Server is shutting down because the server is shutting down. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table: No columns without statistics found**

There are no eligible columns in the current database on which to create statistics using sp\_createstats . Computed columns and columns of the ntext, text, or image data types cannot be specified as statistics columns. Columns already having statistics are not touched (for example, the first column of an index or a column with explicitly created statistics).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: B-tree chain linkage mismatch.**

There is a break in the logical page chain at some level in the B-tree specified (this can happen at any level, including the leaf level). A page P\_ID2 is pointed to by the next page pointer of page P\_ID1, but page P\_ID2's previous page pointer points to a different page, P\_ID3.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server could not allocate enough memory to start Service Broker task manager**

SQL Server Service Broker cannot start Service Broker task manager.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Login failed: Account locked out**

A user attempted to log into the network with an account that has been locked out. The Linux security log will identify the user name under MSSQLSERVER event ID 18486.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Logical consistency error after performing I/O on page**

A consistency check failed when reading or writing a database page or transaction log block. The error message contains the specific type of consistency check that failed.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Service Broker could not query the FIPS compliance mode flag from the registry**

The rule triggers an alert when SQL Server Service Broker could not query the FIPS compliance mode flag from the registry.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failure occurred during database recovery**

This error occurs when SQL Server fails to recover a database successfully when it is brought online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The provider reported an unexpected catastrophic failure**

The provider reported an unexpected catastrophic failure.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Backup device failed - Operating system error**

This message indicates that the operating system was unable to open or close a backup device (disk, tape, or pipe) specified as part of a BACKUP or RESTORE command. For more information on backup devices, refer to the Books Online topics, "Backup Devices" and "BACKUP."

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: Page allocated to object was not seen. Page may be invalid or have incorrect object ID information in its header**

A page is allocated as specified, but was not seen with that object/index ID in its header. The page has a different index ID in its header, so there will be a matching 2534 (page allocated by another object) error for the page. The 2534 error corresponds to the object/index ID that is in the page's header.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not allocate space for object in database because the Filegroup is full**

The specified Filegroup has run out of free space.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Service Broker or Database Mirroring is running in FIPS compliance mode**

The rule triggers an alert when SQL Server Service Broker or Database Mirroring is running in FIPS compliance mode. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 0 | | Severity | Defines Alert Severity. | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: B-tree page has two parent nodes**

The B-tree structure is corrupt because page P\_ID1 is referenced as a child page by slots in two pages higher in the B-tree, P\_ID2 and P\_ID3. A page can only be referenced by a single parent.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Log Backup Failed to Complete**

This error indicates that SQL Server could not complete the BACKUP of the specified database due to a previous error. The BACKUP command that failed is given at the end of the error message. This message also appears in the Linux application log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: OS Error occurred while performing I/O on page**

An operating system error occurred when reading or writing a database page. The error message contains the specific operating system error encountered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The log for database is not available**

An I/O error related to data integrity has occurred for the specified database. Either the log or data portion of the database could be damaged. SQL Server has made the log for that database unavailable to prevent further data integrity problems. The I/O error that led to the 9001 message should be reported in the SQL Server error log and/or the Linux event logs.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: A SQL Server Service Broker conversation has been closed due to an error**

The rule triggers an alert when a SQL Server Service Broker conversation has been closed due to an error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Invalid reference to LOB page**

This error occurs when SQL Server uses an invalid reference to a LOB page in an operation. This error may occur due to several different reasons.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to initialize the Common Language Runtime (CLR) with HRESULT**

The rule triggers an alert when an assembly or application fails to start and logs an HRESULT error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XTP Insufficient Disk Space**

The rule listens to event 41822 and raises a critical alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: A fatal error occurred in .NET Framework runtime**

The rule triggers an alert when the .NET Framework shuts down due to an error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: IO Completion Listener Worker appears to be non-yielding on Node**

I/O completion ports are the mechanism by which Microsoft SQL Server uses a pool of threads that was created when the service was started to process asynchronous I/O requests. The message will specify what node the completion port is not yielding on. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Logical page in database is already hashed**

This error occurs when SQL Server attempts to hash the logical page %S\_PGID of database ID%d and the page is already in the SQL Server hash table.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Database log file is full. Back up the transaction log for the database to free up some log space**

The specified transaction log file has run out of free space.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Descriptor for object in database not found in the hash table during attempt to unhash it**

A temporary table could not be found. The specific object ID will be available in the Linux application log as event ID 617.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server cannot start the Service Broker event handler**

SQL Server Service Broker cannot start the Service Broker event handler.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Table error: B-tree level mismatch, page does not match level from parent**

There are two pages linked as parent (P\_ID2) and child (P\_ID1) in a B-tree. The level (LEVEL1) in the child page (P\_ID1) does not comply with the level rules for B-trees, given the level (LEVEL2) in the parent page (P\_ID2).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to open primary database file**

An operating system error occurred when opening the primary file of a database. The error message contains the specific operating system error encountered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not find FOREIGN KEY constraints for table, although the table is flagged as having them**

This error can occur when the creation of a constraint failed but for some reason the creation was not completely rolled back. It can also be caused by data consistency issue with the system tables in the database where the table listed in the message resides.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server Assertion**

SQL Server has raised an error. Under normal circumstances, SQL Server has posted a dump file in the log directory to help identify the actions that preceded the error. The error may have been caused by data corruption, an error in the client application, an error in SQL Server, network instability, or hardware failure.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Failed to add column to table**

sp\_repladdcolumn failed to add the specified column to the table in the publication database. If another error is reported along with this one, the other error should indicate the reason the column could not be added. If no other error is reported, the problem could be that the owner-qualified table does not exist, or the data type is not one that can be added to a replicated table. The data type of the new column must be either an identity, computed, or timestamp column; allow nulls; or have a default. For more information about sp\_repladdcolumn , see "Schema Changes on Publication Databases" in Books Online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Could not do cleanup for the killed process**

This error message occurs when another error caused a user connection to terminate abnormally.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The Service Broker/Database Mirroring Transport could not listen for connections due to an error**

The rule triggers an alert when Service Broker cannot listen on the specified port.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: A security (SSPI) error occurred when connecting to another Service Broker or Database Mirroring host**

When Service Broker transport security uses SSPI, the service account for the remote database must have CONNECT permission in master database. Remote SQL Server instance should allow Linux Authentication for the account being used by remote host. There are no requirements for the login to have other permissions or to own objects in any database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Attempt to fetch logical page that belongs to different object**

This error occurs when SQL Server detects that the allocation unit as stored on a database page does match the allocation unit associated with a specific operation, such as running a SELECT statement against a table.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: SQL Server Assertion**

SQL Server has raised an error. Under normal circumstances, SQL Server has posted a dump file in the log directory to help identify the actions that preceded the error. The error may have been caused by data corruption, an error in the client application, an error in SQL Server, network instability, or hardware failure.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The user is not allowed to truncate the system table**

The TRUNCATE TABLE statement cannot be issued for a system table, even if the allow updates configuration option is enabled.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The SQL Server Service Broker or Database Mirroring transport is disabled or not configured**

The rule triggers an alert when the SQL Server Service Broker or Database Mirroring transport is disabled or not configured. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Server shutdown due to Ctrl-C or Ctrl-Break signal**

The SQL Server instance was started from a command prompt using sqlservr.exe, and now a Ctrl-C or Ctrl-Break command was issued from that prompt to stop the sqlservr.exe application. No checkpoints were performed during the shutdown. This message is written to the SQL Server error log and the application event log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: An error occurred in the timer event cache**

An error occurred in the SQL Server Service Broker transport layer timer event cache. The Linux application log or SQL Server error log may identify the specific error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: The Service Broker/Database Mirroring transport cannot listen on port because it is in use**

When you create a Service Broker or Database Mirroring endpoint, SQL Server should be able to accept TCP/IP connections on the port that is specified in the endpoint configuration. The transport security requires authorization for connections to the port. If the server has a firewall enabled, the firewall configuration must allow both incoming and outgoing connections for the port that is used by the endpoint.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Engine - Rules (alerting)**

**MSSQL 2017 on Linux: SQL Server 2017 DB Engine is restarted**

Detects SQL Server 2017 DB Engine restart. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Unavailable Time (seconds) | The workflow will try to catch a service start event during this time frame, after event service stops. | 900 | |  |
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**MSSQL 2017 on Linux: DB Engine - Rules (non-alerting)**

**MSSQL 2017 on Linux: Broker Statistics: Enqueued Messages Total**

Collects the "Broker Statistics: Enqueued Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Engine Page Life Expectancy (s)**

SQL 2017 DB Engine on Linux Page Life Expectancy (s) performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Broker Transaction Rollbacks**

Collects the "Broker Statistics: Broker Transaction Rollbacks" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Phantom expired rows removed/sec**

Collects the Linux "Phantom expired rows removed/sec" performance counter for the XTP engine's phantom processing subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Send I/Os per Second**

Collects the "Broker/DBM Transport: Send I/Os per Second" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment P2 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P2 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued P4 Messages per Second**

Collects the "Broker Statistics: Enqueued P4 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Phantom expired rows touched/sec**

Collects the Linux "Phantom expired rows touched/sec" performance counter for the XTP engine's phantom processing subsystem.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Rows returned/sec**

Collects the Linux "Rows returned/sec" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Average Microseconds/Read Comp**

Collects the "HTTP Storage: Average Microseconds/Read Comp" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued Local Messages per Second**

Collects the "Broker Statistics: Enqueued Local Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued TransmissionQ Messages per Second**

Collects the "Broker Statistics: Enqueued TransmissionQ Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Transactions created/sec**

Collects the Linux "Transactions created/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Merge Policy Evaluations**

Collects the Linux "Merge Policy Evaluations" performance counter for the XTP engine's storage subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Activation: Tasks Aborted per Second**

Collects the "Broker Activation: Tasks Aborted per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Receive I/O Buffer Copies bytes per Second**

Collects the "Broker/DBM Transport: Receive I/O Buffer Copies bytes per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Transfers per Second**

Collects the "HTTP Storage: Transfers per Second" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Buffer Cache Hit Ratio**

Collects the Linux "Buffer Cache Hit Ratio" performance counter for each instance of SQL 2017 DB Engine on Linux.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Activation: Stored Procedures Invoked per Second**

Collects the "Broker Activation: Stored Procedures Invoked per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Transaction validation failures/sec**

Collects the Linux "Transaction validation failures/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Save point refreshes/sec**

Collects the Linux "Save point refreshes/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Main GC work items/sec**

Collects the Linux "Main GC work items/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Activation: Tasks Running**

Collects the "Broker Activation: Tasks Running" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment P6 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P6 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Expired rows touched/sec**

Collects the Linux "Expired rows touched/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Rows processed/sec (no sweep needed)**

Collects the Linux "Rows processed/sec (no sweep needed)" performance counter for the XTP engine's garbage collector.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Total Bytes per Second**

Collects the "HTTP Storage: Total Bytes per Second" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Phantom rows touched/sec**

Collects the Linux "Phantom rows touched/sec" performance counter for the XTP engine's phantom processing subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Expired rows removed/sec**

Collects the Linux "Expired rows removed/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL User Connections**

Counts the number of users currently connected to SQL Server.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Tentatively-deleted rows touched/sec**

Collects the Linux "Tentatively-deleted rows touched/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued P8 Messages per Second**

Collects the "Broker Statistics: Enqueued P8 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cascading aborts/sec**

Collects the Linux "Cascading aborts/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Compilations per Second**

Collects the Linux "SQL Compilations per Second" performance counter for each instance of SQL 2017 DB Engine on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Average Bytes/Write**

Collects the "HTTP Storage: Average Bytes/Write" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment P9 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P9 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Dusty corner scan retries/sec (user-issued)**

Collects the Linux "Dusty corner scan retries/sec (user-issued)" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Activation: Tasks Started per Second**

Collects the "Broker Activation: Tasks Started per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Dequeued TransmissionQ Messages per Second**

Collects the "Broker Statistics: Dequeued TransmissionQ Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Read-only transactions prepared/sec**

Collects the Linux "Read-only transactions prepared/sec" performance counter for XTP engine transactions in SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Pending Message Fragments for Receive I/O**

Collects the "Broker/DBM Transport: Pending Message Fragments for Receive I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Log Blocks/sec**

Collects the Linux "Log Blocks/sec" performance counter for the XTP IO Rate Governor.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Reads per Second**

Collects the "HTTP Storage: Reads per Second" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Receive I/Os per Second**

Collects the "Broker/DBM Transport: Receive I/Os per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: SQL Receives per Second**

Collects the "Broker Statistics: SQL Receives per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Logins per Second**

Total number of logins started per second. This does not include pooled connections.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued P9 Messages per Second**

Collects the "Broker Statistics: Enqueued P9 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Writes per Second**

Collects the "HTTP Storage: Writes per Second" performance counter for SQL DB Engine that monitor Azure Storage account.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: SQL Re-Compilations per Second**

Collects the Linux "SQL Recompiles per Second" performance counter for each instance of SQL 2017 DB Engine on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Corrupted Messages Total**

Collects the "Broker Statistics: Corrupted Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Number of Lock Requests per Second**

Collects the Linux "Number of Lock Requests per Second" performance counter for each instance of SQL 2017 DB Engine on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Current Bytes for Receive I/O**

Collects the "Broker/DBM Transport: Current Bytes for Receive I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Send I/O Len Average**

Collects the "Broker/DBM Transport: Send I/O Len Average" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Receive I/O Len Average**

Collects the "Broker/DBM Transport: Receive I/O Len Average" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Forwarded Messages Discarded per Second**

Collects the "Broker Statistics: Forwarded Messages Discarded per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Sweep expired rows removed/sec**

Collects the Linux "Sweep expired rows removed/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Merges Installed**

Collects the Linux "Merges Installed" performance counter for the XTP engine's storage subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Average Microseconds/Read**

Collects the "HTTP Storage: Average Microseconds/Read" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Merges Abandoned**

Collects the Linux "Merges Abandoned" performance counter for the XTP engine's storage subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Outstanding HTTP Storage I/O**

Collects the "HTTP Storage: Outstanding HTTP Storage I/O" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: HTTP Storage I/O Failed per Second**

Collects the "HTTP Storage: HTTP Storage I/O Failed per Second" performance counter for SQL DB Engine that monitor c.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Forwarded Messages per Second**

Collects the "Broker Statistics: Forwarded Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Insufficient Credits Waits/sec**

Collects the Linux "Insufficient Credits Waits/sec" performance counter for the XTP IO Rate Governor.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Forwarded Message Bytes per Second**

Collects the "Broker Statistics: Forwarded Message Bytes per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Save points created/sec**

Collects the Linux "Save points created/sec" performance counter for XTP engine transactions in SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued Local Messages Total**

Collects the "Broker Statistics: Enqueued Local Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: SQL Receive Total**

Collects the "Broker Statistics: SQL Receive Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Engine Thread Count**

SQL 2017 DB Engine Thread Count performance collection rule

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Forwarded Pending Message Bytes**

Collects the "Broker Statistics: Forwarded Pending Message Bytes" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Log records written/sec**

Collects the Linux "Log records written/sec" performance counter for XTP transaction logging in SQL Server.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Log bytes written/sec**

Collects the Linux "Log bytes written/sec" performance counter for XTP transaction logging in SQL Server.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: SQL Sends per Second**

Collects the "Broker Statistics: SQL Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Activation Errors Total**

Collects the "Broker Statistics: Activation Errors Total" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Send I/O Bytes per Second**

Collects the "Broker/DBM Transport: Send I/O Bytes per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Forwarded Pending Message Count**

Collects the "Broker Statistics: Forwarded Pending Message Count" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Sweep expiring rows touched/sec**

Collects the Linux "Sweep expiring rows touched/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued Transport Messages per Second**

Collects the "Broker Statistics: Enqueued Transport Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Transactions aborted/sec**

Collects the Linux "Transactions aborted/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment Send Size Average**

Collects the "Broker/DBM Transport: Message Fragment Send Size Average" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Average Bytes/Read**

Collects the "HTTP Storage: Average Bytes/Read" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Number of Deadlocks per Second**

Collects the Linux "Number of Deadlocks per Second" performance counter for each instance of SQL 2017 DB Engine on Linux.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Total Rate Objects Published**

Collects the Linux "Total Rate Objects Published" performance counter for the XTP IO Rate Governor.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued Transport Messages Total**

Collects the "Broker Statistics: Enqueued Transport Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Number of Lock Waits per Second**

Collects the Linux "Number of Lock Waits per Second" performance counter for each instance of SQL 2017 DB Engine on Linux.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment P8 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P8 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued P2 Messages per Second**

Collects the "Broker Statistics: Enqueued P2 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Open Connection Count**

Collects the "Broker/DBM Transport: Open Connection Count" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Receive I/O Bytes per Second**

Collects the "Broker/DBM Transport: Receive I/O Bytes per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Read Bytes per Second**

Collects the "HTTP Storage: Read Bytes per Second" performance counter for SQL DB Engine that monitor Azure Storage account.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Total Transactions per Second**

Collects the Linux "Transaction per Second" performance counter for the \_Total instance of the databases performance object for each instance of SQL 2017 DB Engine on Linux.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Missed Credit Slots**

Collects the Linux "Missed Credit Slots" performance counter for the XTP IO Rate Governor.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Rows processed/sec (marked for unlink)**

Collects the Linux "Rows processed/sec (marked for unlink)" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Core Merges Completed**

Collects the Linux "Core Merges Completed" performance counter for the XTP engine's storage subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment P10 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P10 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Phantom expiring rows touched/sec**

Collects the Linux "Phantom expiring rows touched/sec" performance counter for the XTP engine's phantom processing subsystem.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment P3 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P3 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued P1 Messages per Second**

Collects the "Broker Statistics: Enqueued P1 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Current Bytes for Send I/O**

Collects the "Broker/DBM Transport: Current Bytes for Send I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Transactions aborted by user/sec**

Collects the Linux "Transactions aborted by user/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Forwarded Message Discarded Total**

Collects the "Broker Statistics: Forwarded Message Discarded Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Engine Stolen Server Memory (MB)**

SQL 2017 DB Engine Stolen Server Memory (MB) performance collection rule on Linux

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Checkpoints Completed**

Collects the Linux "Checkpoints Completed" performance counter for the XTP engine's storage subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cursor deletes/sec**

Collects the Linux "Cursor deletes/sec" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment P7 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P7 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Average Microseconds/Write**

Collects the "HTTP Storage: Average Microseconds/Write" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: HTTP Storage: Average Microseconds/Write Comp**

Collects the "HTTP Storage: Average Microseconds/Write Comp" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Commit dependencies taken/sec**

Collects the Linux "Commit dependencies taken/sec" performance counter for XTP engine transactions in SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Dropped Messages Total**

Collects the "Broker Statistics: Dropped Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Merge Requests Outstanding**

Collects the Linux "Merge Requests Outstanding" performance counter for the XTP engine's storage subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Phantom scans started/sec**

Collects the Linux "Phantom scans started/sec" performance counter for the XTP engine's phantom processing subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued P7 Messages per Second**

Collects the "Broker Statistics: Enqueued P7 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment P5 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P5 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Activation: Task Limit Reached**

Collects the "Broker Activation: Task Limit Reached" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Rows processed/sec (first in bucket and removed)**

Collects the Linux "Rows processed/sec (first in bucket and removed)" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Dialog Timer Event Count**

Collects the "Broker Statistics: Dialog Timer Event Count" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Save point rollbacks/sec**

Collects the Linux "Save point rollbacks/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment P4 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P4 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued P10 Messages per Second**

Collects the "Broker Statistics: Enqueued P10 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cursor inserts/sec**

Collects the Linux "Cursor inserts/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Sweep rows touched/sec**

Collects the Linux "Sweep rows touched/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Parallel GC work item/sec**

Collects the Linux "Parallel GC work item/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Lock Timeouts per Second**

Collects the Linux "Lock Timeouts per Second" performance counter for each instance of SQL 2017 DB Engine on Linux.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Engine Average Wait Time (Milliseconds)**

SQL 2017 DB Engine on Linux Average Wait Time performance collection rule

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Write Bytes per Second**

Collects the "HTTP Storage: Write Bytes per Second" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: HTTP Storage I/O Retry per Second**

Collects the "HTTP Storage: HTTP Storage I/O Retry per Second" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Rows touched/sec**

Collects the Linux "Rows touched/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Dusty corner scan retries/sec (GC-issued)**

Collects the Linux "Dusty corner scan retries/sec (GC-issued)" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Rows processed/sec (first in bucket)**

Collects the Linux "Rows processed/sec (first in bucket)" performance counter for the XTP engine's garbage collector.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Total Files Merged**

Collects the Linux "Total Files Merged" performance counter for the XTP engine's storage subsystem.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Stale Rate Object Waits/sec**

Collects the Linux "Stale Rate Object Waits/sec" performance counter for the XTP IO Rate Governor.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Checkpoints Closed**

Collects the Linux "Checkpoints Closed" performance counter for the XTP engine's storage subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Average Bytes/Transfer**

Collects the "HTTP Storage: Average Bytes/Transfer" performance counter for SQL DB Engine that monitor Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment P1 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P1 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: SQL Send Total**

Collects the "Broker Statistics: SQL Send Total" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued P6 Messages per Second**

Collects the "Broker Statistics: Enqueued P6 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cursor write conflicts/sec**

Collects the Linux "Cursor write conflicts/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Forwarded Message Byte Total**

Collects the "Broker Statistics: Forwarded Message Byte Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Receive I/O Buffer Copies Count**

Collects the "Broker/DBM Transport: Receive I/O Buffer Copies Count" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Sweep expired rows touched/sec**

Collects the Linux "Sweep expired rows touched/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cursor scans started/sec**

Collects the Linux "Cursor scans started/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Rows processed/sec**

Collects the Linux "Rows processed/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cursor updates/sec**

Collects the Linux "Cursor updates/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued Messages per Second**

Collects the "Broker Statistics: Enqueued Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Pending Bytes for Send I/O**

Collects the "Broker/DBM Transport: Pending Bytes for Send I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued Transport Message Frag Tot**

Collects the "Broker Statistics: Enqueued Transport Message Frag Tot" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Activation: Task Limit Reached per Second**

Collects the "Broker Activation: Task Limit Reached per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: HTTP Storage: Average Microseconds/Transfer**

Collects the "HTTP Storage: Average Microseconds/Transfer" performance counter for SQL DB Engine that monitor Azure Storage account.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Dusty corner scan retries/sec (Phantom-issued)**

Collects the Linux "Dusty corner scan retries/sec (Phantom-issued)" performance counter for the XTP engine's phantom processing subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Sweep scans started/sec**

Collects the Linux "Sweep scans started/sec" performance counter for the XTP engine's garbage collector.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment Receives per Second**

Collects the "Broker/DBM Transport: Message Fragment Receives per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Pending Message Fragments for Send I/O**

Collects the "Broker/DBM Transport: Pending Message Fragments for Send I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Current Message Fragments for Send I/O**

Collects the "Broker/DBM Transport: Current Message Fragments for Send I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued P3 Messages per Second**

Collects the "Broker Statistics: Enqueued P3 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Pending Bytes for Receive I/O**

Collects the "Broker/DBM Transport: Pending Bytes for Receive I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Io Issued/sec**

Collects the Linux "Io Issued/sec" performance counter for the XTP IO Rate Governor.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued Transport Message Fragments per Second**

Collects the "Broker Statistics: Enqueued Transport Message Fragments per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker/DBM Transport: Message Fragment Receive Size Average**

Collects the "Broker/DBM Transport: Message Fragment Receive Size Average" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Cursor unique violations/sec**

Collects the Linux "Cursor unique violations/sec" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Enqueued P5 Messages per Second**

Collects the "Broker Statistics: Enqueued P5 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Broker Statistics: Forwarded Messages Total**

Collects the "Broker Statistics: Forwarded Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Engine - Tasks**

**Global Configuration Settings**

Global Configuration Settings.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Engine - Console Tasks**

**SQL Profiler**

**SQL Management Studio**

**MSSQL 2017 on Linux: DB File**

Microsoft SQL Server 2017 database file on Linux.

**MSSQL 2017 on Linux: DB File - Discoveries**

**MSSQL 2017 on Linux: Discover SQL Server 2017 DB Files**

This rule discovers the file information for each SQL Server 2017 Database on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB File - Unit monitors**

**DB File Free Space Left**

The monitor reports a warning when the free space (including both already allocated space and free space on the media) drops below the Warning Threshold setting, expressed as percentage of the sum of data size plus disk free space. The monitor reports a critical alert when the free space drops below the Critical Threshold.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change its state to Critical if the value drops below this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold | The monitor will change its state to Warning if the value drops below this threshold. | 20 | |  |
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**MSSQL 2017 on Linux: DB File - Rules (non-alerting)**

**MSSQL 2017 on Linux: DB File Free Space Total (MB)**

The amount of space left in a file in megabytes. Also, includes space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB File Allocated Free Space (MB)**

The amount of space left in a file in megabytes. Does not include space left on media hosting a file with auto grow enabled.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB File Allocated Free Space (%)**

The amount of space left in a file in percentage terms. Does not include space left on media hosting a file with auto grow enabled

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB File Free Space Total (%)**

The amount of space left in a file in percentage terms. Also, includes space left on media hosting a file with auto grow enabled.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Filegroup**

Microsoft SQL Server 2017 database Filegroup on Linux.

**MSSQL 2017 on Linux: DB Filegroup - Discoveries**

**MSSQL 2017 on Linux: Discover SQL Server 2017 DB Filegroups**

This rule discovers the Filegroup information for each SQL Server 2017 Database on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Filegroup - Dependency (rollup) monitors**

**DB Files Configuration**

Rolls up all DB Files configuration monitors to the DB Filegroup.

**DB Files Availability**

Rolls up all DB Files availability monitors to the DB Filegroup.

**DB Files Performance**

Rolls up all DB Files performance monitors to the DB Filegroup.

**DB Files Security**

Rolls up all DB Files security monitors to the DB Filegroup.

**MSSQL 2017 on Linux: DB Filegroup - Rules (non-alerting)**

**MSSQL 2017 on Linux: DB Filegroup Allocated Free Space (%)**

The amount of space left in all files for this Filegroup in percentage terms. Does not include space left on media hosting a file with auto grow enabled.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Filegroup Free Space Total (%)**

Collects free database Filegroup space in percentage terms.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Filegroup Allocated Free Space (MB)**

The amount of space left in all files for this Filegroup in megabytes. Does not include space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Filegroup Free Space Total (MB)**

The amount of space left in all files for this Filegroup in megabytes. Also, includes space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB FILESTREAM Filegroup**

Microsoft SQL Server 2017 FILESTREAM Filegroup on Linux.

**MSSQL 2017 on Linux: DB FILESTREAM Filegroup - Discoveries**

**MSSQL 2017 on Linux: Discover FILESTREAM Filegroups**

This rule discovers DB FILESTREAM Filegroup information for each SQL Server 2017 Database on Linux.

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|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB FILESTREAM Filegroup - Unit monitors**

**DB FILESTREAM Filegroup Free Space**

The monitor reports a warning when the free space drops below the Warning Threshold setting, expressed as percentage of the sum of data size. The monitor reports a critical alert when the free space drops below the Critical Threshold.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change its state to Critical if the value drops below this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold | The monitor will change its state to Warning if the value drops below this threshold. | 20 | |  |
|  |  |  |

**MSSQL 2017 on Linux: DB FILESTREAM Filegroup - Rules (non-alerting)**

**MSSQL 2017 on Linux: DB FILESTREAM Filegroup Free Space Total (%)**

Collects free FILESTREAM Filegroup data container space in percentage terms.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB FILESTREAM Filegroup Free Space Total (MB)**

Collects free FILESTREAM Filegroup data container space in megabytes.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: DB Log File**

Microsoft SQL Server 2017 database transaction log file on Linux.

**MSSQL 2017 on Linux: DB Log File - Discoveries**

**MSSQL 2017 on Linux: Discover SQL Server 2017 Transaction Log File**

This rule discovers transaction log files for each SQL Server 2017 Database on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Log File - Unit monitors**

**DB Log File Free Space Left**

The monitor reports a warning when the free space (including both already allocated space and free space on the media) drops below the Warning Threshold setting, expressed as percentage of the sum of data size plus disk free space. The monitor reports a critical alert when the free space drops below the Critical Threshold.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change its state to Critical if the value drops below this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold | The monitor will change its state to Warning if the value drops below this threshold. | 20 | |  |
|  |  |  |

**MSSQL 2017 on Linux: DB Log File - Rules (non-alerting)**

**MSSQL 2017 on Linux: DB Log File Free Space Total (%)**

The amount of space left in all log files for this database in percentage terms. Also, includes space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: DB Log File Allocated Free Space (%)**

The amount of space left in all log files for this database in percentage terms. Does not include space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Log File Allocated Free Space (MB)**

The amount of space left in all log files for this database in megabytes. Does not include space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Log File Free Space Total (MB)**

The amount of space left in all log files for this database in megabytes. Also, includes space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Memory-Optimized Data Container**

Microsoft SQL Server 2017 Database Memory-Optimized Data Filegroup container on Linux.

**MSSQL 2017 on Linux: DB Memory-Optimized Data Container - Discoveries**

**MSSQL 2017 on Linux: Discover Memory-Optimized Data Filegroup Containers**

This rule discovers the container information for each SQL Server 2017 Database on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Memory-Optimized Data Container - Unit monitors**

**Memory-Optimized Data Filegroup Container Free Space**

The monitor reports a warning when the available disk space for the Memory-Optimized Data Filegroup Container drops below the Warning Threshold setting, expressed as percentage of the sum of the Memory-Optimized Data Filegroup Container size plus disk free space. The monitor reports a critical alert when the free space drops below the Critical Threshold.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change the state to Critical if the value drops below this threshold. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold | The monitor will change the state to Warning if the value drops below this threshold. | 20 | |  |
|  |  |  |

**MSSQL 2017 on Linux: DB Memory-Optimized Data Container - Rules (non-alerting)**

**MSSQL 2017 on Linux: Memory-Optimized Data Filegroup container free space (%)**

Collects the amount of free space available in the Memory-Optimized Data Filegroup container, expressed as percentage of the sum of disk free space and the size of data stored in the Memory-Optimized Data Filegroup container.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Memory-Optimized Data Filegroup container free space (MB)**

Collects the amount of free space available for the Memory-Optimized Data Filegroup container (in Megabytes).

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Memory-Optimized Data Filegroup**

Microsoft SQL Server 2017 Database Memory-Optimized Data Filegroup on Linux.

**MSSQL 2017 on Linux: DB Memory-Optimized Data Filegroup - Discoveries**

**MSSQL 2017 on Linux: Discover Memory-Optimized Data Filegroup**

This rule discovers the Memory-Optimized Data Filegroup information for each SQL Server 2017 Database on Linux.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Memory-Optimized Data Filegroup - Unit monitors**

**Average length of the row chains in the hash buckets**

This monitor checks Hash Index Empty Buckets Count and Average Length of the Row Chains in the SQL Database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Average Chain Length Threshold | Threshold for Average Chain Length that indicates the average length of the row chains in the hash buckets. | 100 | | Display index count | The display count of not configured indexes according to the best practice. | 5 | | Empty Bucket Percent Threshold | Threshold for Empty Bucket Percent that indicates the number of empty buckets in the hash index. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Empty Bucket percent in the hash index**

This monitor checks Hash Index Empty Buckets Count in the SQL Database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Display index count | The display count of not configured indexes according to the best practice. | 5 | | Empty Bucket Percent Threshold | Threshold for Empty Bucket Percent that indicates the number of empty buckets in the hash index. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Memory-Optimized Data Stale Checkpoint File Pairs Ratio**

The monitor reports a warning state and raises an alert when the ratio of stale checkpoint file pairs in Memory-Optimized Data Filegroup is higher than the specified thresholds.  
Please note that the alerts are raised only if the corresponding database is reasonably big (300 or more checkpoint files total).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Checkpoint File Pairs Threshold | An alert would be generated if Checkpoint File Pairs total count greater than or equal to the Checkpoint File Pairs Threshold. | 300 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach the thresholds before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected ratio will be compared against this parameter. | 60 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Memory-Optimized Data Filegroup - Dependency (rollup) monitors**

**Containers Performance**

Rolls up all Containers performance monitors to the DB Memory-Optimized Data Filegroup.

**Containers Security**

Rolls up all Containers security monitors to the DB Memory-Optimized Data Filegroup.

**Containers Configuration**

Rolls up all Containers configuration monitors to the DB Memory-Optimized Data Filegroup.

**Containers Availability**

Rolls up all Containers availability monitors to the DB Memory-Optimized Data Filegroup.

**MSSQL 2017 on Linux: DB Memory-Optimized Data Filegroup - Rules (non-alerting)**

**MSSQL 2017 on Linux: XTP Controller Log Processed/sec**

Collects the Linux "XTP Controller Log Processed/sec" performance counter for SQL 2017 Database with Memory-Optimized tables.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Memory Used By Tables (MB)**

Collects the amount of memory allocated for memory-optimized tables in the given SQL Server 2017 Database on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Precreated Checkpoint Files**

Collects the number of Precreated Checkpoint Files in Memory-Optimized Data Filegroup.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Checkpoint File Pairs Waiting For Log Truncation**

Collects the number of Checkpoint Files Waiting For Log Truncation in Memory-Optimized Data Filegroup.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XTP Controller DLC Latency/Fetch**

Collects the Linux "XTP Controller DLC Latency/Fetch" performance counter for SQL 2017 Database with Memory-Optimized tables.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Merge Target Checkpoint File Pairs**

Collects the number of merge target checkpoint file pairs in Memory-Optimized Data Filegroup.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XTP Memory Used (KB)**

Collects the Linux "XTP Memory Used (KB)" performance counter for SQL 2017 Database with Memory-Optimized tables.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: XTP Controller DLC Peak Latency**

Collects the Linux "XTP Controller DLC Peak Latency" performance counter for SQL 2017 Database with Memory-Optimized tables.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Active Checkpoint File Pairs**

Collects the number of active checkpoint file pairs in Memory-Optimized Data Filegroup.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: DB Memory-Optimized Data Filegroup Free Space Total (MB)**

Collects the amount of free space available across all containers in the Memory-Optimized Data Filegroup (in Megabytes).

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Memory Used By Indexes (MB)**

Collects the amount of memory allocated for indexes defined for memory-optimized tables in the given SQL Server 2017 Database on Linux.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: DB Memory-Optimized Data Filegroup Free Space Total (%)**

Collects the amount of free space available across all containers in the Memory-Optimized Data Filegroup, expressed as percentage of the sum of disk free space and the size of data stored in the Memory-Optimized Data Filegroup.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Checkpoint File Pairs Under Construction**

Collects the number of checkpoint file pairs under construction in Memory-Optimized Data Filegroup.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Default Resource Pool**

Microsoft SQL Server 2017 Default Resource Pool on Linux.

**MSSQL 2017 on Linux: Default Resource Pool - Discoveries**

**MSSQL 2017 on Linux: Discover Database Engine Resource Pools**

This rule discovers all resource pools for a given instance of SQL Server 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Discover only Memory-Optimized Data pools | Must be 'true' or 'false'. When this property is set to true then discovery will disover only pools with bound databases. A database can be bound to a pool by using function sys.sp\_xtp\_bind\_db\_resource\_pool. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Discover Database Engine Resource Pool managing Memory-Optimized Data resources**

This rule discovers a resource pool that manages Memory-Optimized Data resources of the target SQL Server 2017 database and a relation between Resource Pool and the database.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Internal Resource Pool**

Microsoft SQL Server 2017 Internal Resource Pool on Linux.

**MSSQL 2017 on Linux: Internal Resource Pool - Discoveries**

**MSSQL 2017 on Linux: Discover Database Engine Resource Pools**

This rule discovers all resource pools for a given instance of SQL Server 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Discover only Memory-Optimized Data pools | Must be 'true' or 'false'. When this property is set to true then discovery will disover only pools with bound databases. A database can be bound to a pool by using function sys.sp\_xtp\_bind\_db\_resource\_pool. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Memory-Optimized Data Resource Pool Group**

SQL Server 2017 Memory-Optimized Data Resource Pool Group on Linux contains all SQL Server 2017 Resource Pools that manage Memory-Optimized Data resources on Linux.

**MSSQL 2017 on Linux: Memory-Optimized Data Resource Pool Group - Discoveries**

**MSSQL 2017 on Linux: SQL Server 2017 Memory-Optimized Data Resource Pool Group Discovery**

Discovery of SQL Server 2017 Memory-Optimized Data Resource Pool Group.

**MSSQL 2017 on Linux: Memory-Optimized Data Scope Group**

SQL Server 2017 Memory-Optimized Data Scope Group on Linux contains all SQL Server Memory-Optimized Data objects such as Memory-Optimized Data Filegroups, Containers and Resource Pools on Linux.

**MSSQL 2017 on Linux: Memory-Optimized Data Scope Group - Discoveries**

**MSSQL 2017 on Linux: Memory-Optimized Data Scope Group Discovery**

Discovery of SQL Server 2017 Memory-Optimized Data Scope Group on Linux.

**MSSQL 2017 on Linux: Monitoring Pool Alert Collection**

Microsoft SQL Server 2017 on Linux Monitoring Pool Alert Collection. This object is used to collect Linux module errors and warnings from event log of nodes that are the members of the SQL Server 2017 Monitoring Pool.

**MSSQL 2017 on Linux: Monitoring Pool Alert Collection - Discoveries**

**MSSQL 2017 on Linux: Discover SQL Server 2017 Monitoring Pool Alert Collections**

This rule discovers a Monitoring Pool Alert Collection for a MSSQL 2017 on Linux. This object is used to collect module errors and warnings from event log of nodes that are the members of the SQL Server 2017 Monitoring Pool.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | |  |
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**MSSQL 2017 on Linux: Monitoring Pool Alert Collection - Rules (alerting)**

**MSSQL 2017 on Linux: Discovery Error**

The rule traces discovery workflows errors and generates error alerts.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Discovery Warning**

The rule traces discovery workflows warnings and generates warning alerts.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Monitoring error**

The rule traces monitoring workflows errors and generates error alerts.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Monitoring warning**

The rule traces monitoring workflows warnings and generates warning alerts.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Resource Pool**

Microsoft SQL Server 2017 Resource Pool Abstract Class on Linux.

**MSSQL 2017 on Linux: Resource Pool - Rules (non-alerting)**

**MSSQL 2017 on Linux: Number of query memory grants in the resource pool**

Collects the Linux "Active Memory grant amount (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Current memory target for query compile (KB)**

Collects the Linux "Compile Memory Target (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Target amount of memory the resource pool is trying to attain based on the settings and server state (KB)**

Collects the Linux "Target memory (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Number of queries waiting for memory grants in the resource pool.**

Collects the Linux "Pending memory grants count" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Current memory target for cache memory (KB)**

Collects the Linux "Cache memory target (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Total amount of granted memory in the resource pool (KB)**

Collects the Linux "Active memory grants count" performance counter for each resource pool of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Current memory target for query execution memory grant (KB)**

Collects the Linux "Query exec memory target (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Maximum amount of memory the resource pool can have based on the settings and server state (KB)**

Collects the Linux "Max memory (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Number of query memory grants per second occurring in the resource pool**

Collects the Linux "Memory grants/sec" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Linux: Number of query memory grant timeouts per second occurring in the resource pool**

Collects the Linux "Memory grant timeouts/sec" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Used amount of memory in the resource pool (KB)**

Collects the Linux "Used memory (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: User Resource Pool**

Microsoft SQL Server 2017 User Resource Pool on Linux Abstract Class.

**MSSQL 2017 on Linux: User Resource Pool - Unit monitors**

**Resource Pool Memory Consumption**

The monitor reports a critical state and raises an alert when the amount of memory used by the resource pool is greater than the Threshold setting, expressed as a percentage of memory available for Memory-Optimized Data tables for the given resource pool.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected value will be compared against this parameter. | 90 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: User Resource Pool - Rules (non-alerting)**

**MSSQL 2017 on Linux: User Resource Pool Memory Consumption (MB)**

Collects amount of memory used by the resource pool (in Megabytes).

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: User Resource Pool Memory Consumption (%)**

Collects amount of memory used by the resource pool, expressed as a percentage of memory available for Memory-Optimized Data tables for the given Resource Pool.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Linux: User-Defined Resource Pool**

Microsoft SQL Server 2017 User-Defined Resource Pool on Linux.

**MSSQL 2017 on Linux: User-Defined Resource Pool - Discoveries**

**MSSQL 2017 on Linux: Discover Database Engine Resource Pools**

This rule discovers all resource pools for a given instance of SQL Server 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Discover only Memory-Optimized Data pools | Must be 'true' or 'false'. When this property is set to true then discovery will disover only pools with bound databases. A database can be bound to a pool by using function sys.sp\_xtp\_bind\_db\_resource\_pool. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2017 on Linux: Discover Database Engine Resource Pool managing Memory-Optimized Data resources**

This rule discovers a resource pool that manages Memory-Optimized Data resources of the target SQL Server 2017 database and a relation between Resource Pool and the database.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Agent**

The SQL Server 2017 Agent component that runs as part of a Microsoft SQL Server 2017 Database Engine on Windows.

**MSSQL 2017 on Windows: Agent - Discoveries**

**MSSQL 2017 on Windows: Discover SQL Server 2017 Agent for a Database Engine**

This rule discovers the SQL Server Agent for an instance of SQL Server 2017 DB Engine on Windows. There could be only one SQL Server Agent instance for each DB Engine instance.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Agent - Unit monitors**

**SQL Server Agent Service**

This monitor checks the status of the SQL Agent service for this instance of SQL Server.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Alert only if service startup type is automatic | This may only be set to 'true' or 'false'. If set to 'false', then alerts will be triggered no matter what the startup type is set to. Default is 'true'. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 600 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**Long Running Jobs**

This monitor checks for long running SQL Agent jobs.   
Note that SQL Server Agent Service is not supported by any edition of SQL Server Express; there is no appropriate discovered object. This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Critical Threshold (minutes) | The monitor will change its state to Critical if the value exceeds this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 120 | | Included continuously executed jobs | Some SQL Agent Jobs may run infinitely (until Agent stops). They usually have schedule type 'Start automatically when SQL Server Agent starts'. For example, SQL Server Replication often uses such jobs. These jobs lead to false alerts and by default monitor doesn't takes them in account. But there may be exclusions when such jobs run for a short time. In order to monitor such jobs one should define a list of these jobs' names delimited by comma. |  | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 600 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold (minutes) | Warning threshold. Exceeding this threshold will result in the monitor changing to at least a warning state. | 60 | |  |
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**MSSQL 2017 on Windows: Agent - Dependency (rollup) monitors**

**Agent Jobs Performance**

Rolls up all Agent Jobs performance monitors to the SQL Server Agent.

**Agent Jobs Configuration**

Rolls up all Agent Jobs configuration monitors to the SQL Server Agent.

**Agent Jobs Security**

Rolls up all Agent Jobs security monitors to the SQL Server Agent.

**Agent Jobs Availability**

Rolls up all Agent Jobs availability monitors to the SQL Server Agent.

**MSSQL 2017 on Windows: Agent Job**

All Microsoft SQL Server 2017 agent jobs on Windows.

**MSSQL 2017 on Windows: Agent Job - Discoveries**

**MSSQL 2017 on Windows: Discover SQL Server 2017 Agent Jobs**

This rule discovers all SQL Server 2017 Agent Jobs on Windows

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Agent Job - Unit monitors**

**Job Duration**

Monitors Agent Job Duration.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express; there is no appropriate discovered object.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Critical Threshold (minutes) | The monitor will change its state to Critical if the value exceeds this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 120 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 600 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold (minutes) | Warning threshold. Exceeding this threshold will result in the monitor changing to at least a warning state. | 60 | |  |
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**Last Run Status**

SQL 2017 Agent Job on Windows Last Run State Monitor. Monitors the last run state of an SQL Agent Job.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express; there is no appropriate discovered object.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 600 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: All SQL Server Filegroups Group**

All SQL Server Filegroups Group on Windows contains all SQL Server filegroups such as database Filegroups, Memory-Optimized Data Filegroups, FILESTREAM Filegroups on Windows.

**MSSQL 2017 on Windows: All SQL Server Filegroups Group - Discoveries**

**MSSQL 2017 on Windows: All SQL Server Filegroups Group Discovery**

Discovery of All SQL Server Filegroups Group on Windows.

**MSSQL 2017 on Windows: All SQL Server Objects Group**

The SQL Server 2017 All SQL Server objects Group on Windows contains SQL Server objects, which can raise alerts.

**MSSQL 2017 on Windows: All SQL Server Objects Group - Discoveries**

**MSSQL 2017 on Windows: All SQL Server Objects Group Discovery**

Discovery of MSSQL 2017 All SQL Server Objects Group on Windows.

**MSSQL 2017 on Windows: Custom User Policy**

Microsoft SQL Server 2017 Custom User Policy object on Windows.

**MSSQL 2017 on Windows: Custom User Policy - Discoveries**

**MSSQL 2017 on Windows: Discover Database Custom User Policy**

This rule discovers Custom User Policies for SQL Server 2017 Database on Windows. Note: This discovery is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database**

Microsoft SQL Server 2017 Database on Windows.

**MSSQL 2017 on Windows: Database - Discoveries**

**MSSQL 2017 on Windows: Discover SQL Server 2017 Databases for a Database Engine**

This rule discovers all databases running for a given instance of SQL Server 2017 DB Engine on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database - Unit monitors**

**Source Log Shipping**

This monitor detects when a log shipping source has not had its logs backed up within the threshold defined as a part of the log shipping configuration.  
Note that no Log Shipping is supported by any edition of SQL Server Express.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**DB Disk Read Latency**

Monitors the disk Read latency from all logical disks which host database files.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Critical Threshold | The monitor will change its state to Critical if the value exceeds this threshold. | 40 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**DB Chaining Configuration**

Monitors the Cross-database Ownership Chaining Enabled setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Transaction Log Free Space (%)**

Transaction Log Free Space (%) monitor for SQL 2017 DBs on Windows. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Threshold | The collected value will be compared against this parameter. | 10 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
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**Auto Close Configuration**

Monitors the Auto Close setting for the database on Windows. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**DB Free Space Left**

Monitors the space available in the database and on the media hosting the database in percentage terms. Note: This monitor is disabled by default. Please use overrides to enable it when necessary. This monitor does not count free space for FILESTREAM and Memory-Optimized Data file groups.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change its state to Critical if the value drops below this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Warning Threshold | The monitor will change its state to Warning if the value drops below this threshold. | 20 | |  |
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**Trustworthy Configuration**

Monitors the Trustworthy setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Page Verify Configuration**

Monitors the Page Verify setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | CHECKSUM | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Auto Update Statistics Configuration**

Monitors the Auto Update Statistics setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | ON | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Auto Create Statistics Configuration**

Monitors the Auto Create Statistic setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | ON | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Database Status**

This monitor checks the status of the database as reported by Microsoft SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Destination Log Shipping**

This monitor detects when a log-shipping destination has not had a log restored to it within the threshold defined as a part of the log-shipping configuration.  
Note that no Log Shipping is supported by any edition of SQL Server Express.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Auto Shrink Configuration**

Monitors the Auto Shrink setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Database Backup Status**

This monitor checks the status of the database backup as reported by Microsoft SQL Server. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Backup Period (days) | The target backup frequency in days. Should be set according to your Recovery Point Objective (RPO). | 7 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 86400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Recovery Model Configuration**

Monitors the Recovery model setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | FULL | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**DB Space Percentage Change**

Monitors for a significant decrease of database free space over a number of sample periods. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change its state to Critical if the value exceeds this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 45 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 5 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Warning Threshold | Warning threshold. Exceeding this threshold will result in the monitor changing to at least a warning state. | 25 | |  |
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**DB Disk Write Latency**

Monitors the disk Write latency from all logical disks which host database files.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Critical Threshold | The monitor will change its state to Critical if the value exceeds this threshold. | 25 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**Auto Update Statistics Async Configuration**

Monitors the Auto Update Atatistics Asynchronously setting for the database. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Expected Value | Expected value of database configuration setting. To view the set of applicable values please refer to "Configuration" section of the knowledge base article of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database - Aggregate monitors**

**External Access Configuration**

Monitors the aggregate external access configuration health for the database.

**Automatic Configuration**

This monitor aggregates the health of automatic configuration monitors.

**Recovery Configuration**

Monitors the aggregate recovery configuration health for the database.

**DB Space**

Monitors the aggregate space health for the database.

**MSSQL 2017 on Windows: Database - Dependency (rollup) monitors**

**DB Memory-Optimized Data Filegroups Performance**

Rolls up all DB Memory-Optimized Data Filegroups performance monitors to the Database.

**DB Log Files Configuration**

Rolls up all DB Log Files configuration monitors to the Database.

**Database Critical Policies Availability**

Rolls up all Database Critical Policies availability monitors to the Database.

**Database Critical Policies Security**

Rolls up all Database Critical Policies security monitors to the Database.

**DB Memory-Optimized Data Filegroups Security**

Rolls up all DB Memory-Optimized Data Filegroups security monitors to the Database.

**Database Warning Policies Availability**

Rolls up all Database Warning Policies availability monitors to the Database.

**DB Filegroups Configuration**

Rolls up all DB Filegroups configuration monitors to the Database.

**Database Critical Policies Configuration**

Rolls up all Database Critical Policies configuration monitors to the Database.

**Database Warning Policies Security**

Rolls up all Database Warning Policies security monitors to the Database.

**DB Filegroups Security**

Rolls up all DB Filegroups security monitors to the Database.

**DB Log Files Performance**

Rolls up all DB Log Files performance monitors to the Database.

**Database Warning Policies Performance**

Rolls up all Database Warning Policies performance monitors to the Database.

**Resources Pool Memory Consumption (rollup)**

The monitor reports a critical state and raises an alert when the amount of memory used by the resource pool is greater than the Threshold setting, expressed as a percentage of memory available for Memory-Optimized Data tables for the given resource pool. This monitor is a dependency (rollup) monitor.

**DB Memory-Optimized Data Filegroups Configuration**

Rolls up all DB Memory-Optimized Data Filegroups configuration monitors to the Database.

**Database Warning Policies Configuration**

Rolls up all Database Warning Policies configuration monitors to the Database.

**DB Log Files Security**

Rolls up all DB Log Files security monitors to the Database.

**DB Log Files Availability**

Rolls up all DB Log Files availability monitors to the Database.

**DB Filegroups Performance**

Rolls up all DB Filegroups performance monitors to the Database.

**DB Memory-Optimized Data Filegroups Availability**

Rolls up all DB Memory-Optimized Data Filegroups availability monitors to the Database.

**DB Filegroups Availability**

Rolls up all DB Filegroups availability monitors to the Database.

**Database Critical Policies Performance**

Rolls up all Database Critical Policies performance monitors to the Database.

**MSSQL 2017 on Windows: Database - Rules (non-alerting)**

**MSSQL 2017 on Windows: DB Allocated Free Space (MB)**

SQL 2017 on Windows DB Allocated Free Space (MB) performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Allocated Space Used (MB)**

SQL 2017 on Windows DBs Allocated Space Used (MB) performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Active Requests Count**

SQL 2017 on Windows DBs Active Requests performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Allocated Space (MB)**

Collect database allocated size

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Transaction Log Free Space Total (%)**

Collects unused transaction log space reported by SQL Server as a percentage of total transaction log space

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Free Space Total (MB)**

The amount of space left in database for all files in all Filegroups for this database in megabytes. Also, includes space left on media hosting a file with auto grow enabled.   
Please note that this rule collects metrics for ROWS data only. Metrics for FILESTREAM and for Memory-Optimized Data data are ignored.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Active Sessions Count**

SQL 2017 on Windows DBs Active Sessions performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Disk Write Latency (ms)**

Collects maximum disk Write latency from all logical disks which host database files.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Free Outer Space (MB)**

SQL 2017 on Windows DBs Free Outer Space (MB) performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Free Space Total (%)**

The amount of space left in database for all files in all Filegroups for this database in percentage terms. Also, includes space left on media hosting a file with auto grow enabled.   
Please note that this rule collects metrics for ROWS data only. Metrics for FILESTREAM and for Memory-Optimized Data data are ignored.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Disk Read Latency (ms)**

Collects maximum disk Read latency from all logical disks which host database files.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Active Connections Count**

SQL 2017 on Windows DBs Active Connections performance collection rule

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Transactions per Second Count**

SQL 2017 on Windows DBs Transactions per second performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Active Transactions Count**

MSSQL 2017 on Windows DBs Active Transactions performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database - Tasks**

**Check Catalog (DBCC)**

Checks for catalog consistency within the specified database. The database must be online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Check Disk (DBCC)**

Checks the consistency of disk space allocation structures for a specified database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Set Database Online**

Set Database Online

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Check Database (DBCC)**

Checks the allocation, structural, and logical integrity of all the objects in the specified database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Set Database to Emergency State**

Set Database to Emergency State

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Set Database Offline**

Set Database Offline

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database - Console Tasks**

**SQL Profiler**

**SQL Management Studio**

**MSSQL 2017 on Windows: Database Critical Policy**

Microsoft SQL Server 2017 on Windows Custom User Policy, which has a Database as the Facet and one of the error categories as Policy Category.

**MSSQL 2017 on Windows: Database Critical Policy - Unit monitors**

**Database Health Policy**

Two-state monitor with 'Error' critical state used particularly for reflecting state of Custom User Policies, which have Database as Facet and one of the predefined error categories as Policy Category.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database Warning Policy**

Microsoft SQL Server 2017 on Windows Custom User Policy, which has a Database as the Facet and one of the warning categories as Policy Category.

**MSSQL 2017 on Windows: Database Warning Policy - Unit monitors**

**Database Health Policy**

Two-state monitor with 'Warning' critical state used particularly for reflecting state of Custom User Policies, which have Database as Facet and one of the predefined warning categories as Policy Category.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine**

An installation of a MSSQL 2017 Database Engine on Windows. The database engine hosts databases and other SQL Server components.

**MSSQL 2017 on Windows: DB Engine - Discoveries**

**MSSQL 2017 on Windows: Discover SQL Server 2017 Database Engines**

This rule discovers SQL Server 2017 DB Engines on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine - Unit monitors**

**Service Pack Compliance**

Monitors the service pack level of the database engine against the compliant setting

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Minimal Service Pack level for SQL Server 2017 | The minimal Service Pack level as per company policy. By default, it equals to 0 (integer). | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Managed Backup System Health Policy**

The Managed Backup System Health Policy evaluates critical errors like lack of or invalid SQL Credentials, connectivity errors and reports the health of the system.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**Average Wait Time**

Average Wait Time monitor for 2017 DBs

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected value will be compared against this parameter. | 250 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**CPU Utilization (%)**

CPU Utilization (%) for MSSQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected value will be compared against this parameter. | 90 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**DMV Configuration Status**

This monitor checks the status of DMV access configuration on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**Thread Count**

Thread Count for 2017 DB Engine

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Minimum Free Threads Threshold | The workflow determines the maximum number of threads and the number of active threads for each DB Engine process. An alert will be generated if the number of free threads is less or equal than this parameter. | 10 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Stolen Server Memory**

Stolen Server Memory for 2017 DB Engine

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | Alert will be generated if the Stolen Server Memory/SQL Server max memory ratio is greater than this threshold. | 70 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Buffer Cache Hit Ratio**

Buffer Cache Hit Ratio for 2017 DB Engine

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected value will be compared against this parameter. | 0 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**SQL Re-Compilation**

SQL Re-Compilation for 2017 DB Engine. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | If the ratio between SQL Re-Compilation and SQL Compilation is greater than this threshold alert will be generated. | 25 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Page Life Expectancy**

Page Life Expectancy (s) for 2017 DB Engine

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected value will be compared against this parameter. | 300 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**DB Engine Health Status**

This monitor checks the health state of the SQL Server 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Blocking Sessions**

Monitors blocked sessions for a SQL instance on Windows. Note: This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of blocked sessions | The maximum allowed number of blocked sessions. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Wait Time (minutes) | The minimum process execution duration before considering it for Blocked SPIDs analysis. | 1 | |  |
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**Managed Backup User Action Health Policy**

The Managed Backup User Action Health Policy evaluates warnings such as corrupted backups, and such.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**SQL Full-text Filter Daemon Launcher Service**

This monitor checks the status of the SQL 2017 Full-text Filter Daemon Launcher service. Note that SQL Full-text Search feature is not available in any edition of SQL Server Express, except SQL Server Express with Advanced Services. This monitor is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Alert only if service startup type is automatic | This may only be set to 'true' or 'false'. If set to 'false', then alerts will be triggered no matter what the startup type is set to. Default is 'true'. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 600 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine - Dependency (rollup) monitors**

**Databases Performance**

Rolls up all Databases performance monitors to the DB Engine.

**Databases Availability**

Rolls up all Databases availability monitors to the DB Engine.

**Databases Configuration**

Rolls up all Databases configuration monitors to the DB Engine.

**Databases Security**

Rolls up all Databases security monitors to the DB Engine.

**MSSQL 2017 on Windows: DB Engine - Rules (alerting)**

**MSSQL 2017 on Windows: Database log file is full. Back up the transaction log for the database to free up some log space**

The specified transaction log file has run out of free space.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Service Broker could not query the FIPS compliance mode flag from the registry**

The rule triggers an alert when SQL Server Service Broker could not query the FIPS compliance mode flag from the registry.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server could not allocate enough memory to start Service Broker task manager**

SQL Server Service Broker cannot start Service Broker task manager.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failure occurred during database recovery**

This error occurs when SQL Server fails to recover a database successfully when it is brought online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XML: Failed to instantiate class. Make sure Msxml2.dll exists in the SQL Server installation**

The Msxml2.dll file is missing from the computer where SQL Server is installed, or it could not be loaded from the system directory while processing an XML feature such as sp\_xml\_preparedocument. If the file exists, it may not be registered properly, or one of its dependencies may not exist.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: An error occurred in the SQL Server Service Broker or Database Mirroring transport manager**

An error occurred in the SQL Server Service Broker or Database Mirroring transport manager. The Windows application log or SQL Server error log may identify the specific error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: A SQL Server Service Broker procedure output results**

A stored procedure, which was internally activated by SQL Server Service Broker, output results. Internal procedures should not output results. The event in the Windows application log contains the procedure name, the queue name, and the output results. The event is logged as MSSQLSERVER event ID 9724. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 0 | | Severity | Defines Alert Severity. | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Page allocated to object was not seen. Page may be invalid or have incorrect object ID information in its header**

A page is allocated as specified, but was not seen with that object/index ID in its header. The page has a different index ID in its header, so there will be a matching 2534 (page allocated by another object) error for the page. The 2534 error corresponds to the object/index ID that is in the page's header.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: RESTORE could not start database**

Internal structures could not be created during the database RESTORE. This is usually the side effect of another error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not recover database due to unresolved transaction outcomes**

The recovery process found pending transactions for the specified database. These transactions were either distributed transactions that used Microsoft Distributed Transaction Coordinator (MS DTC), or the transactions were single instance cross-database transactions. There is not enough information available for the recovery process to either commit or roll back one or more of those transactions.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: The text, ntext, or image node has wrong type**

The text node is on the wrong text page type. If the parent (owner) of the node can be found, there will be an accompanying 8929 message providing details about the owner.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to initialize the Common Language Runtime (CLR) with HRESULT**

The rule triggers an alert when an assembly or application fails to start and logs an HRESULT error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cannot start service broker security manager**

Service Broker security manger could not start.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Service Broker Manager has shutdown**

The rule triggers an alert when the SQL Server Service Broker Manager has shutdown. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Service Broker or Database Mirror cryptographic call failed**

SQL Server Service Broker or Database Mirror attempted to call an operating system cryptographic function. The cryptographic function returned an error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: An error occurred in the Service Broker manager**

The rule triggers an alert when an error occurred in the SQL Server Service Broker manager.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Optimized concurrent query limit has been exceeded**

You are using an edition of SQL Server that is licensed for a limited number of concurrent queries. This includes the Personal and Desktop editions. Those editions have a concurrent workload governor that limits them to a specific number of concurrent user queries plus a smaller number of concurrent system tasks.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The I/O operation was successful after retry**

A read operation on a database page or transaction log block was successful but only after retrying the operation. While you may not need to take immediate action, you should research the cause of the error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The Service Broker/Database Mirroring Transport could not listen for connections due to an error**

The rule triggers an alert when Service Broker cannot listen on the specified port.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed: Password too short**

A user attempted to change the password, but the proposed password was too short. The Windows security log will identify the user name under MSSQLSERVER event ID 18464.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Internal Query Processor Error: The query processor encountered an unexpected error during the processing of a remote query phase**

This is an internal query processor error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database Backup Failed To Complete**

BACKUP failed to complete the command.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: The text, ntext, or image node at page is referenced by page not seen in the scan**

The text node was not referenced in any complex column in any heap or clustered index. It is effectively orphaned.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Maximum limit for connections has been reached**

By default, SQL Server dynamically manages the memory needed for user connections. However, the maximum number of connections can be set to a fixed value by setting the user connections configuration option to a value other than 0. Setting the user connections option to a non-zero value is not recommended. If this option is set to a non-zero value and the specified number of connections is exceeded, any additional login attempts will fail with the above message. If the value is set to 1, the SQL Server instance may not start.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to finish full-text operation. The Filegroup is empty, read-only, or not online**

The full-text operation did not finish because the Filegroup is empty, read-only, or not online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not find FOREIGN KEY constraints for table, although the table is flagged as having them**

This error can occur when the creation of a constraint failed but for some reason the creation was not completely rolled back. It can also be caused by data consistency issue with the system tables in the database where the table listed in the message resides.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Log Backup Failed to Complete**

This error indicates that SQL Server could not complete the BACKUP of the specified database due to a previous error. The BACKUP command that failed is given at the end of the error message. This message also appears in the Windows application log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Service Broker attempted to use an unsupported encryption algorithm**

The rule triggers an alert when SQL Server Service Broker tries to use an unsupported encryption algorithm.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Service Broker transmitter shut down due to an exception or a lack of memory**

The rule triggers an alert when SQL Server Service Broker transmitter stopped due to an error or a lack of memory. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Full Text Search: Full-Text Search is not enabled for the current database. Use sp\_fulltext\_database to enable Full-Text Search**

You have attempted to perform a full-text indexing in a database that is not enabled for full-text indexing. The database may have never been enabled for full-text, or it may have been restored or attached, which will automatically disable full-text indexing.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Page was not seen in the scan although its parent and previous refer to it. Check any previous errors**

A page (P\_ID1) in a B-tree was not seen, even though an index page (P\_ID2) points to it as a child page and its previous page (P\_ID3) in the page chain points to it as the next page in the chain. This can happen at any level of the B-tree. Both error states mean the same thing; they differ only in where the error was discovered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Cross object linkage. Page PGID->next is not in the same index**

Page P\_ID is linked to page P\_ID2 but the two pages are allocated to different indexes and/or objects.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not create a statement object using OLE DB provider**

The rule triggers an alert when SQL Server fails to create a statement object with the OLE DB provider connected to a linked server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The SQL Server Service Broker or Database Mirroring transport is disabled or not configured**

The rule triggers an alert when the SQL Server Service Broker or Database Mirroring transport is disabled or not configured. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: OS Error occurred while performing I/O on page**

An operating system error occurred when reading or writing a database page. The error message contains the specific operating system error encountered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: B-tree level mismatch, page does not match level from parent**

There are two pages linked as parent (P\_ID2) and child (P\_ID1) in a B-tree. The level (LEVEL1) in the child page (P\_ID1) does not comply with the level rules for B-trees, given the level (LEVEL2) in the parent page (P\_ID2).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not resolve the referenced column name in table**

This error occurs when you try to modify data in a table with a foreign key that references a column that no longer exists in the referenced table. Merely renaming a column will not cause this error. Under normal circumstances, a column referenced by a foreign key cannot be dropped, so this error may indicate that unsupported direct system table updates have occurred.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: I/O Completion Listener Worker appears to be non-yielding on Node**

I/O completion ports are the mechanism by which Microsoft SQL Server uses a pool of threads that was created when the service was started to process asynchronous I/O requests. The message will specify what node the completion port is not yielding on. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XTP Unable Load Compiled Dll**

The rule listens to event 41309 and raises a warning alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: An error occurred while processing SQL Server Service Broker mirroring routes**

The rule triggers an alert when an error occurres while processing SQL Server Service Broker mirroring routes

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Service Broker was not able to allocate memory for cryptographic operations**

The rule triggers an alert when SQL Server Service Broker is not able to allocate memory for cryptographic operations.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: A security (SSPI) error occurred when connecting to another Service Broker or Database Mirroring host**

When Service Broker transport security uses SSPI, the service account for the remote database must have CONNECT permission in master database. Remote SQL Server instance should allow Windows Authentication for the account being used by remote host. There are no requirements for the login to have other permissions or to own objects in any database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Full Text Search: Search on full-text catalog failed with unknown result**

The full-text query failed for an unspecified reason.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to add column to table**

sp\_repladdcolumn failed to add the specified column to the table in the publication database. If another error is reported along with this one, the other error should indicate the reason the column could not be added. If no other error is reported, the problem could be that the owner-qualified table does not exist, or the data type is not one that can be added to a replicated table. The data type of the new column must be either an identity, computed, or timestamp column; allow nulls; or have a default. For more information about sp\_repladdcolumn , see "Schema Changes on Publication Databases" in Books Online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: An error occurred in the Service Broker queue rollback handler**

SQL Server Service Broker raises MSSQLSERVER event ID 8405 when an error prevents Service Broker from disabling a queue during a rollback.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Cross object linkage**

The page P\_ID1 points, in a parent-child manner, to a page (P\_ID2) in a different object.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Column is not a valid complex column**

A column is marked as being a complex column in the record's variable length column section, but it is not a valid text pointer or in-row text root.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cannot start service broker manager**

The rule triggers an alert when SQL Server cannot start service broker manager.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table: Creating statistics for the following columns**

sp\_createstats has generated statistics for each eligible column in the current database. Computed columns and columns of the ntext, text, or image data types cannot be specified as statistics columns. Columns already having statistics are not touched (for example, the first column of an index or a column with explicitly created statistics). Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The query has been canceled because the estimated cost of this query exceeds the configured threshold. Contact the system administrator**

The configuration setting for the query governor cost limit option is lower than the cost the SQL Server optimizer estimated for the specified query. By default, the query governor cost limit option is set to 0, which allows all queries to run. However, on this instance of SQL Server an upper limit was specified by setting the option to a number greater than 0. Query plans with an anticipated cost larger than this value are not started.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to drop column from table**

sp\_repldropcolumn failed to drop the specified column on the publication database. The error could result from a failed system table update or from a failure of the underlying ALTER TABLE statement.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Logical page in database is already hashed**

This error occurs when SQL Server attempts to hash the logical page %S\_PGID of database ID%d and the page is already in the SQL Server hash table.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Checksum failure while page in cache**

It is detected that a database page has been unexpectedly modified while in cache (by verifying the page checksum).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Error while undoing logged operation in database**

The recovery process could not undo (roll back) one or more transactions in the specified database. This error will be accompanied by a more specific error in the SQL Server error log and/or the event log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Cross object linkage: Parent page in object next refer to page not in the same object**

The next page pointer of page P\_ID2 and a child page pointer of page P\_ID1 in a B-tree of the specified object points to a page (P\_ID3) in a different object. Furthermore, pages P\_ID1 and P\_ID2 may themselves be in different objects.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: An error occurred in the SQL Server Service Broker message dispatcher**

An error occurred in the SQL Server Service Broker message dispatcher. The Windows application log or SQL Server error log may identify the specific error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not find CHECK constraint, although the table is flagged as having one**

This error can occur when the creation of a constraint failed but for some reason the creation was not completely rolled back. It can also be caused by data consistency issue with the system tables in the database where the table listed in the message resides.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: A default full-text catalog does not exist in the database or user does not have permission to perform this action**

The full-text catalog does not exist, or the user does not have the appropriate permission to create a full-text index in the catalog.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cannot start service broker manager due to operating system error**

The rule triggers an alert when SQL Server cannot start service broker manager due to operating system error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: CHECKTABLE processing of object encountered page twice. Possible internal error or allocation fault**

Page P\_ID was encountered twice during the course of the scan.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The log for database is not available**

An I/O error related to data integrity has occurred for the specified database. Either the log or data portion of the database could be damaged. SQL Server has made the log for that database unavailable to prevent further data integrity problems. The I/O error that led to the 9001 message should be reported in the SQL Server error log and/or the Windows event logs.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Full Text Search: Could not find full-text index for database**

The specified full-text index is unavailable.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Internal Query Processor Error: The query processor encountered an unexpected error during execution**

This is an internal query processor error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server cannot start the Service Broker event handler**

SQL Server Service Broker cannot start the Service Broker event handler.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Unable to open the physical file**

SQL Server has failed to open the physical file.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not create an instance of OLE DB provider**

The rule triggers an alert when SQL Server could not create an instance of an OLE DB provider to connect to a linked server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Table: No columns without statistics found**

There are no eligible columns in the current database on which to create statistics using sp\_createstats . Computed columns and columns of the ntext, text, or image data types cannot be specified as statistics columns. Columns already having statistics are not touched (for example, the first column of an index or a column with explicitly created statistics).

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to initialize the Common Language Runtime (CLR) due to memory pressure**

Windows could not allocate memory for the Microsoft Common Language Runtime (CLR) to initialize.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: A fatal error occurred in .NET Framework runtime**

The rule triggers an alert when the .NET Framework shuts down due to an error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The Service Broker or Database Mirroring Transport has started**

SQL Server Service Broker or Database Mirroring transport has started. The Windows application log specifies whether the error was recorded by Service Broker or Database Mirroring the application name. This message is logged in the Windows application log as MSSQLSERVER event ID 9690. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 0 | | Severity | Defines Alert Severity. | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The query processor could not start the necessary thread resources for parallel query execution**

Thread resources are scarce in the server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not allocate space for object in database because the Filegroup is full**

The specified Filegroup has run out of free space.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XML: Failed to load Msxml2.dll**

The Msxml2.dll file is missing from the computer where SQL Server is installed, or it could not be loaded from the system directory while processing an XML feature such as sp\_xml\_preparedocument. If the file exists, it may not be registered properly, or one of its dependencies may not exist.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The provider reported an unexpected catastrophic failure**

The provider reported an unexpected catastrophic failure.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Assertion**

SQL Server has raised an error. Under normal circumstances, SQL Server has posted a dump file in the log directory to help identify the actions that preceded the error. The error may have been caused by data corruption, an error in the client application, an error in SQL Server, network instability, or hardware failure.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: page is out of the range of this database**

The page specified is marked as allocated, but is beyond the in-use portion of the file in which it resides (except in certain states, as described below).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: MSDTC on server is unavailable**

The rule triggers an alert when MSDTC on the server is unavailable.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The MSSQLServer service terminated unexpectedly**

The error is reported by the SQL Server Agent service when it auto restarts SQL Server. SQL Server Agent will only auto restart SQL Server if SQL Server stopped for some reason other than an explicit stop command from a user or application, and if the “Auto restart SQL Server if it stops unexpectedly” option is selected in SQL Server Agent Advanced properties. During the restart of SQL Server, SQL Server Agent will write this message to the application event log on the computer hosting SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Full Text Search: Full-text catalog lacks sufficient disk space to complete this operation**

There is not enough disk space to hold the full-text catalog.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server shutdown due to Ctrl-C or Ctrl-Break signal**

The SQL Server instance was started from a command prompt using sqlservr.exe, and now a Ctrl-C or Ctrl-Break command was issued from that prompt to stop the sqlservr.exe application. No checkpoints were performed during the shutdown. This message is written to the SQL Server error log and the application event log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Error recovering database. Could not connect to MSDTC to check the completion status of transaction**

When you are using MS DTC to manage a distributed transaction across multiple servers and a loss of connectivity occurs, the distributed transaction is left in an unknown or "in doubt" state. Common sources of interruptions are

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Unexpected page type**

Page P\_ID had a page type that was unexpected by the code trying to interpret it. The page is marked allocated, however, which is why the DBCC code is trying to interpret it.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XTP Unable Call Compiler**

The rule listens to event 41312 and raises a warning alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed: Password fails password filter DLL requirements**

A user tried to access SQL Server with a password that did not meet the requirements of the password filter DLL. Windows security log will identify the user name under MSSQLSERVER event ID 18467.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XML: Size of data chunk requested from the stream exceeds allowed limit**

SQL Server received an XML document that exceeds the allowed limit.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Extent object is beyond the range of this database**

P\_ID is a PageID of the form (filenum:pageinfile). The pageinfile of this extent is greater than the physical size of the file filenum of the database. The extent is marked allocated in an IAM page for the object/index ID indicated.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server terminating because of system shutdown**

SQL Server is shutting down because the server is shutting down. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Service Broker or Database Mirroring is running in FIPS compliance mode**

The rule triggers an alert when SQL Server Service Broker or Database Mirroring is running in FIPS compliance mode. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 0 | | Severity | Defines Alert Severity. | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cannot start service broker activation manager**

The rule triggers an alert when service broker fails to start the activation manager.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The user is not allowed to truncate the system table**

The TRUNCATE TABLE statement cannot be issued for a system table, even if the allow updates configuration option is enabled.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not read and latch page**

The page read failed for some reason (see any accompanying errors), or a latch could not be taken (there may be latch timeout messages on the error log).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: One or more indexes are damaged and must be repaired or dropped**

This error provides more details about the problem described in error 8952. See that error for an explanation.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not use Address Windowing Extensions because 'lock pages in memory' privilege was not granted**

The rule triggers an alert when SQL Server cannot use Address Windowing Extensions because 'lock pages in memory' because privilege was not granted.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: AppDomain failed to unload with error code**

The rule triggers an application domain fails to unload because of some error. The Windows application log may contain an information about the original error code and other diagnostic details

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: An error occurred in a SQL Server Service Broker/Database Mirroring transport connection endpoint**

SQL Server uses Service Broker and Database Mirroring endpoints for communication outside of the SQL Server instance.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Operating System error encountered**

This message indicates that an error of some sort was returned from the operating system to a process within SQL Server. The process listed at the beginning of the message indicates which function within SQL Server received the error from the operating system. The exact operating system error number and text at the end of the message will vary depending on what problem the operating system encountered. This error is usually seen in conjunction with other errors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: IAM chain linkage error**

There is a break in the IAM chain for the index specified. A page P\_ID2 is pointed to by the next page pointer of page P\_ID1, but page P\_ID2's previous page pointer points to a different page, P\_ID3. Both error states mean the same, and only differ in where the corruption was discovered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Page is missing references from parent (unknown) and previous nodes. Possible bad root entry in sysindexes**

Page P\_ID1 was seen, but is not linked into the B-tree it thinks it belongs to.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Descriptor for object in database not found in the hash table during attempt to unhash it**

A temporary table could not be found. The specific object ID will be available in the Windows application log as event ID 617.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XTP Background Thread Error**

The rule listens to event 41354 and raises a warning alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: No slots are free to keep buffers for table**

This is raised when SQL Server 2017 has an internal error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Allocation page has invalid page header values.**

The page specified has an invalid page header.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Extra or invalid key**

Every data row in a table (heap or clustered index) must have exactly one matching index row in every non-clustered index over that table. This error means that a non-clustered index has an index row that does not match any data row.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: IAM page is linked in the IAM chain for object**

All IAM pages for an index must have the same index ID on them. In this case, one of the IAM pages linked into the IAM chain for index I\_ID2 has index ID I\_ID1 on it. There are three possible states of this error; they all mean the same thing, but differ in where the discovery is made.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Unique table computation failed**

Unique tables are used by the database client drivers, like Microsoft Access driver for SQL Server, to build updateable queries. For a given SELECT statement, the unique table identifies the table whose row values appear at most once in the result set. When reselecting a row from a result set, the values from the key columns of the unique table are enough to identify the row. This error is raised when the server is unable to compute the unique table.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: B-tree chain linkage mismatch.**

There is a break in the logical page chain at some level in the B-tree specified (this can happen at any level, including the leaf level). A page P\_ID2 is pointed to by the next page pointer of page P\_ID1, but page P\_ID2's previous page pointer points to a different page, P\_ID3.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Address is not aligned**

The structure at address ADDRESS is not 4-byte aligned.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Process Worker appears to be non-yielding on Scheduler**

This error indicates that there is a possible problem with a thread not yielding on a scheduler. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XML: XML document could not be created because server memory is low. Use sp\_xml\_removedocument to release XML documents**

When you execute sp\_xml\_preparedocument , a parsed XML document is stored in the internal cache of SQL Server 2000. The MSXML parser uses up to one-eighth the total memory available for SQL Server. There is not enough memory in the portion of cache allocated to MSXML to open the document specified in the sp\_xml\_preparedocument statement. This may be because the specified document is very large or because documents already in that memory space do not leave enough space for the new document.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not open error log file**

When installing Microsoft SQL Server on an NTFS partition, make sure that the NTFS file permissions allow read/write access. Otherwise, this error message may appear in the Microsoft Windows NT application log (for each installation attempt).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database consistency check performed with no errors**

This message indicates a database consistency check has been run but no errors were encountered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 0 | | Severity | Defines Alert Severity. | 0 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database consistency errors found and repaired**

This message indicates a database consistency check has encountered errors and all of the errors were repaired.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Conflict table does not exist**

This error occurs when you try to add or drop a column to a merge article, but the conflict table specified in sysmergearticles for the modified article does not actually exist in the database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed**

When a connection attempt is rejected because of an authentication failure that involves a bad password or user name, a message similar to the following is returned to the client: "Login failed for user 'user\_name'. (Microsoft SQL Server, Error: 18456)".

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database consistency errors found**

This message indicates a database consistency check has encountered errors and none or not all of the errors were repaired.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Distributed transaction was aborted by MSDTC**

The rule triggers an alert when Distributed transaction was aborted by MSDTC.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cannot recover the master database. Exiting.**

The master database is not in a recoverable state.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Out Of Memory**

SQL Server has failed to allocate the sufficient amount of memory to run the query.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Parent node for page was not encountered**

Page P\_ID was seen in a B-tree, and is linked into the B-tree level it is at. However, no index page was seen that had a reference to the page as a child page. This can happen at any level of the B-tree.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not create AppDomain manager**

The rule triggers an alert when SQL Server fails to create an application domain manager

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Transaction was deadlocked on resources with another process and has been chosen as the deadlock victim. Rerun the transaction**

This error occurs when Microsoft SQL Server encounters a deadlock. A deadlock occurs when two (or more) processes attempt to access a resource that the other process holds a lock on. Because each process has a request for another resource, neither process can be completed. When a deadlock is detected, SQL Server rolls back the command that has the least processing time and returns error message 1205 to the client application. This error is not fatal and may not cause the batch to be terminated.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cannot open user default database. Login failed**

When a client connects to a SQL Server instance without specifying a database context, the default database defined for its login is used. If that database is unavailable for any reason, the above message appears.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Permission denied on object**

This error occurs when a Microsoft SQL Server user attempts an action, such as executing a stored procedure, or reading or modifying a table, for which the user does not have the appropriate privileges.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to restore master database. Shutting down SQL Server**

The backup of the master database that you are restoring is not usable. The file itself may have been corrupted, or the original master database from which the backup was taken may have data integrity problems.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XML: FOR XML EXPLICIT stack overflow occurred. Circular parent tag relationships are not allowed**

The XML is not well-formed because the element tag nesting level has exceeded the number of columns in the table, one or more tags is self-referencing, or both. For more information about FOR XML EXPLICIT, see "Using EXPLICIT Mode" in Books Online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to open database or transaction log file**

An operating system error occurred when opening a transaction log file or a secondary database file of a database. The error message contains the specific operating system error encountered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed: Password too long**

A user attempted to create a password, but the proposed password was too long. The Windows security log will identify the user name under MSSQLSERVER event ID 18465.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: The next pointer of refers to page. Neither its parent were encountered. Possible bad chain linkage**

A page (P\_ID1) references its next page in the page chain (P\_ID2), but page P\_ID2 was not seen and was not referenced by any parent page in the B-tree.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Indexed view does not contain all rows that the view definition produces.**

Refer to Books Online for more information on this error. This does not necessarily represent an integrity issue with the data in this database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cannot open backup device.**

One or more of the files specified in a BACKUP or RESTORE command could not be opened. The potential reasons for this include:

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Service Broker cryptographic operation failed**

The rule triggers an alert when SQL Server Service Broker cryptographic operation fails.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: CHECKTABLE terminated. A failure was detected while collecting facts.**

Possibly tempdb out of space or a system table is inconsistent. Check previous errors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Service Broker cannot use RC4 encryption algorithm when running in FIPS compliance mode**

SQL Server Service Broker has a conversation where at least one endpoint has been configured to use RC4 encryption and the server is set for Federal Information Processing Standard (FIPS) compliance mode. RC4 encryption is not supported when running in FIPS compliance mode.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to initialize the Common Language Runtime (CLR) with HRESULT**

The rule triggers an alert when an assembly or an application fails to start and logs an HRESULT error. The Windows application log may contain an information about specific HRESULT.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XTP Compiler Failure**

The rule listens to event 41313 and raises a warning alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Assertion**

SQL Server has raised an error. Under normal circumstances, SQL Server has posted a dump file in the log directory to help identify the actions that preceded the error. The error may have been caused by data corruption, an error in the client application, an error in SQL Server, network instability, or hardware failure.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not open tempdb. Cannot continue**

The tempdb database could not be opened. The possible reasons for this could include:

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not connect to server because it is not defined as a remote login at the server**

Setting up security for executing remote procedure calls (RPC) against a remote server involves setting up login mappings in the remote server and possibly in the local server running an instance of Microsoft SQL Server. The mapping is specific to a given server\instance name, usually the NetBIOS name for a default instance and the NetBIOS name plus the instance name for a named instance. If the login mapping does not exist or if the name of the server specified in the connection string does not match the exact name in the sysremotelogins table, and the guest account does not have a mapping in sysremotelogins , you will receive this error. You will also see this error if the remote user is found to have a null or empty login name.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Page in its header is allocated by another object**

A page has the object/index ID specified but is not allocated by any of that index's IAM pages. The page has an incorrect object/index ID in its header, so there will be a matching 2533 (page not seen although allocated) error for the page. The 2533 error corresponds to the index the page is really allocated to.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not mark database as suspect. Getnext NC scan on sysdatabases.dbid failed**

The SQL Server recovery process tried to turn on the suspect flag for the specified database, but it could not find the appropriate row in sysdatabases or could not update the database information in memory. The reason the database needs to be marked suspect should be indicated by other messages in the SQL Server error log or the Event Viewer.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Internal Query Processor Error: The query processor could not obtain access to a required interface**

This is an internal query processor error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not allocate new page for database. There are no more pages available in Filegroup.**

Space can be created by dropping objects, adding additional files, or allowing file growth.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Wrong PageId in the page header**

DBCC asked for page P\_ID1. When the page was read from disk, the page ID in its header was found to be P\_ID2.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The server is too busy to perform the backup or restore operation**

Failed to start a sub-process (a parallel query or parallel I/O) because no threads are available or too many sub-processes executing.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Object, index, page Test failed. Slot - Offset is invalid**

The slot specified has an invalid offset (ADDRESS) in the page, according to the slot array.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not open referenced table**

You are trying to add, drop, or modify a constraint on a table that has a schema stability lock (LCK\_M\_SCH\_S or Sch-S) held on it. The schema stability lock is not compatible with DDL. The lock may be held by a query involving this table that is taking a long time to compile.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cannot determine the service account for SQL Server instance**

This error occurs when a Transact-SQL statement contains mismatched single or double quotes. The SET QUOTED\_IDENTIFIER setting will determine which combinations of single and double quotations marks are valid. For more information about SET QUOTED\_IDENTIFIER, see "SET QUOTED\_IDENTIFIER" in Books Online.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: CREATE DATABASE failed. Could not allocate enough disk space for a new database on the named disks**

This error occurs when there is not enough space on the device to create the model database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not do cleanup for the killed process**

This error message occurs when another error caused a user connection to terminate abnormally.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Internal Query Processor Error: The query processor ran out of stack space during query optimization**

The Query Processor is using a large but limited memory stack when optimizing queries. In some extreme situations the stack size may become a limit for a given very large query--for example, a query containing an inlist with 100,000 constants.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Potential deadlocks exist on all schedulers on Node**

This message is raised when the server fails to respond to new queries within a certain time limit.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Starting without recovery**

SQL Server is starting without recovery.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to create AppDomain**

The rule triggers an alert when an application tried to create an application domain, but failed. This may be caused when there is not enough memory to start the application domain.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cannot create file**

SQL Server cannot create file because the file already exists.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Common Language Runtime (CLR) not installed properly**

This installation of the Common Language Runtime (CLR) is corrupted. The CLR is installed with the Microsoft .NET Framework.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cannot start SQL Server Service Broker on a database**

The rule triggers an alert when SQL Server cannot start Service Broker on a database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not write a CHECKPOINT record in database because the log is out of space**

The transaction log for the specified database has reached its capacity. The limit could be due to a configuration setting or to the amount of physical space available for one or more of the files configured for this database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Full Text Search: Full-text catalog is in an unusable state. Drop and re-create this full-text catalog**

The full-text catalog is offline. The full-text directory has been deleted, is corrupt, or the path points to a location that is not valid.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed: Account locked out**

A user attempted to log into the network with an account that has been locked out. The Windows security log will identify the user name under MSSQLSERVER event ID 18486.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: The high key value on page is not less than the low-key value in the parent, slot of the next page**

A B-tree tree-level page contains a record for each child page, along with a key value for that child page. If the child page is a leaf-level page, all records on the page must have key values greater than or equal to the key value in the parent page. If the child page is a tree-level page, all records must have key values greater than the key value in the parent, except the first record, which must have a key value that exactly matches that in the parent.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed: Password must be changed**

A user attempted to log into SQL Server with a password that was set to the MUST\_CHANGE option. The user will be identified in the Windows security log under MSSQLSERVER event ID 18488.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: .NET Framework runtime was shut down by user code**

The rule triggers an alert when a user defined type, user defined-function, or user-defined property in an assembly contains faulty code.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XML: XML error**

This message passes through XML errors generated outside of SQL Server. The text after "XML error:" will vary. The cause will depend on the exact XML error passed through.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XTP Background Thread Error Log**

The rule listens to event 41355 and raises a warning alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: A SNI call failed during a Service Broker/Database Mirroring transport operation**

The rule triggers an alert when a SNI call fails during a Service Broker/Database Mirroring transport operation. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to open primary database file**

An operating system error occurred when opening the primary file of a database. The error message contains the specific operating system error encountered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: The previous link on page does not match the previous page that the parent, slot expects for this page**

A B-tree is structured so that pages at a single level point to each other, in a doubly linked list. In addition, the pages' parent in the B-tree has a record for each of its children with their keys and page IDs.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XML: XML parsing error**

This message passes through XML parsing errors. The text after "XML parsing error:" will vary. The cause will depend on the exact XML parsing error passed through.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Recovery of database detected possible identity value inconsistency in table**

The database recovery process could not determine the current identity value for the specified table.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Table missing or invalid key in index for the row:**

Every data row in a table (heap or clustered index) must have exactly one matching index row in every non-clustered index over that table. This error means that a non-clustered index is missing an index row.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed: Error during validation**

A user attempted to log in to SQL Server. An unexpected error occurred during validation. The Windows security log will identify the user name and error ID under MSSQLSERVER event ID 18468.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed. The workstation licensing limit for SQL Server access has already been reached**

SQL Server will not provide connections to workstations after the licensing limit has been reached.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not obtain exclusive lock on database**

You may receive this error stating a lock could not be obtained for the model database if the model database is in use when you issue any CREATE DATABASE statement. Since a new database is copied from the model database, the model database has to be in a state with no activity.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Service Broker or Database Mirroring Transport stopped**

The rule triggers an alert when at least one of the endpoints in a SQL Server Service Broker conversation has stopped listening for connections. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 0 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Invalid reference to File ID**

This error occurs when SQL Server uses an invalid file ID while performing some operation. This error can occur for several different scenarios.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed: Password cannot be used at this time**

A user attempted to change the password, but the proposed password could not be used at this time. The Windows security log will identify the user name under MSSQLSERVER event ID 18463.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Commit of internal MSDTC transaction failed**

The rule triggers an error when COMMIT of internal MSDTC transaction failed

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Test failed. Slot overlaps with the prior row**

Slot S\_ID's offset in the slot offset array is not greater than or equal to the end of the previous slot, so they overlap. TEST is 'sorted [i].offset >= max', where the lhs of the expression is the ADDRESS, and 'max' is the end of the previous slot.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: An error occurred while reading the log for database**

This error indicates a failure while processing the transaction log during rollback, recovery, or replication.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Server Assertion**

SQL Server has raised an error. Under normal circumstances, SQL Server has posted a dump file in the log directory to help identify the actions that preceded the error. The error may have been caused by data corruption, an error in the client application, an error in SQL Server, network instability, or hardware failure.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: A SQL Server Service Broker conversation has been closed due to an error**

The rule triggers an alert when a SQL Server Service Broker conversation has been closed due to an error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Database cannot be opened due to inaccessible files or insufficient memory or disk space**

Error 945 is returned when the database is marked IsShutdown . This occurs when a database cannot be recovered due to missing files, or some other resource error that usually can be corrected easily.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XTP Insufficient Disk Space**

The rule listens to event 41822 and raises a critical alert if the event is added to the log.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Logical consistency error after performing I/O on page**

A consistency check failed when reading or writing a database page or transaction log block. The error message contains the specific type of consistency check that failed.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Index node page refers to child page and previous child, but they were not encountered**

An index page (P\_ID1) in a B-tree has child references to two neighboring lower-level pages (P\_ID2 and P\_ID3), but neither was seen.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Operating system error on a device**

The backup device cannot be opened.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: CREATE FILE encountered operating system error**

CREATE FILE encountered operating system error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Unexpected end of file while reading beginning of backup set**

The RESTORE operation failed because it could not read some portion of the backup file specified in the FROM clause. This error generally indicates that the file specified is a pre-SQL Server 7.0 backup or that the file is damaged.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Invalid reference to LOB page**

This error occurs when SQL Server uses an invalid reference to a LOB page in an operation. This error may occur due to several different reasons.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: cross-object chain linkage**

The first phase of a DBCC CHECKDB is to do primitive checks on the data pages of critical system tables. If any errors are found, they cannot be repaired and so the DBCC CHECKDB terminates immediately.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not obtain information about Windows NT group/user**

A process executed within SQL Server or from the SQL Server Agent, such as the xp\_logininfo stored procedure, a scheduled job, or a replication agent, needs to verify the credentials of a Windows-authenticated login. The attempt to retrieve those credentials on the domain failed for an unspecified reason.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: The text, ntext, or image node at page is not referenced**

The text node was not referenced in any complex column in any heap or clustered index. It is effectively orphaned.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: B-tree page has two parent nodes**

The B-tree structure is corrupt because page P\_ID1 is referenced as a child page by slots in two pages higher in the B-tree, P\_ID2 and P\_ID3. A page can only be referenced by a single parent.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Could not find Filegroup ID in sys.Filegroups for database**

The metadata for a table contains a column ID that is greater than the largest column ID ever used in the table. This is a fatal error if the table is a system table, because the checks cannot continue when metadata is corrupt.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Page is missing a reference from previous page. Possible chain linkage problem**

A page (P\_ID2) in a B-tree was not seen, even though its neighbor (P\_ID1) in the page chain points to it in its previous page link. This can happen in any level of the B-tree. Both error states mean the same thing; they differ only in where the error is discovered.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Enlist of MSDTC transaction failed**

The rule triggers an alert when SQL Server fails to enlist a new or existing distributed transaction.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: An error occurred in the timer event cache**

An error occurred in the SQL Server Service Broker transport layer timer event cache. The Windows application log or SQL Server error log may identify the specific error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: The low-key value on page is not the key value in the parent**

A B-tree tree level page contains a record for each child page, along with a key value for that child page. If the child page is a leaf-level page (that is, level 0), all records on the page must have key values greater than or equal to the key value in the parent page. If the child page is a tree-level page (that is, level > 0), all records must have key values greater than the key value in the parent, except the first record, which must have a key value that exactly matches that in the parent.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Internal Query Processor Error: The query processor encountered an internal limit overflow**

This is an internal query processor error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed: Password too simple**

A user attempted to create a password, but the proposed password did not meet the Windows password complexity requirements policy. These are defined in the Password must meet complexity requirements policy setting. The Windows security log will identify the user name under MSSQLSERVER event ID 18466.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Attempt to fetch logical page that belongs to different object**

This error occurs when SQL Server detects that the allocation unit as stored on a database page does match the allocation unit associated with a specific operation, such as running a SELECT statement against a table.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 2 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Failed to allocate memory for Common Language Runtime (CLR)**

The rule triggers an alert when SQL Server is unable to allocate memory for CLR.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: An error occurred in the SQL Server Service Broker message transmitter**

SQL Server Service Broker message transmitter detected an error.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The Service Broker/Database Mirroring transport cannot listen on port because it is in use**

When you create a Service Broker or Database Mirroring endpoint, SQL Server should be able to accept TCP/IP connections on the port that is specified in the endpoint configuration. The transport security requires authorization for connections to the port. If the server has a firewall enabled, the firewall configuration must allow both incoming and outgoing connections for the port that is used by the endpoint.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Full Text Search: An unknown full-text failure occurred**

This error can occur in various circumstances. It is often related to permissions or missing files.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: An SQL Server Service Broker dialog detected an error**

The rule triggers an alert when a SQL Server Service Broker dialog detects an error

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Table error: Slot, row extends into free space**

The end of the slot S\_ID is past the persisted free space offset, ADDRESS. TEST is 'max <= m\_freeData', where the persisted free space offset if 'm\_freeData' and the end of slot S\_ID is 'max'.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: The LSN passed to log scan in database is invalid**

If you see this message during startup when the SQL Server process tries to recover the database or as a result of an ATTACH statement, the log file for the database is corrupted. If you see the message during a restore process, the backup file is corrupted. If you see this message during a replication process, the replication metadata may be incorrect.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Login failed: Password expired**

A user attempted to log into SQL Server with an expired password. The Windows security log will identify the user name under event ID 18487.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Backup device failed - Operating system error**

This message indicates that the operating system was unable to open or close a backup device (disk, tape, or pipe) specified as part of a BACKUP or RESTORE command. For more information on backup devices, refer to the Books Online topics, "Backup Devices" and "BACKUP."

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine - Rules (alerting)**

**MSSQL 2017 on Windows: SQL Server 2017 DB Engine is restarted**

Detects SQL Server 2017 DB Engine restart. Note: This rule is disabled by default. Please use overrides to enable it when necessary.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Unavailable Time (seconds) | The workflow will try to catch a service start event during this time frame, after event service stops. | 900 | |  |
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**MSSQL 2017 on Windows: DB Engine - Rules (non-alerting)**

**MSSQL 2017 on Windows: HTTP Storage: Write Bytes per Second**

Collects the "HTTP Storage: Write Bytes per Second" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Forwarded Message Byte Total**

Collects the "Broker Statistics: Forwarded Message Byte Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Pending Message Fragments for Receive I/O**

Collects the "Broker/DBM Transport: Pending Message Fragments for Receive I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Rows returned/sec**

Collects the Windows "Rows returned/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Transactions created/sec**

Collects the Windows "Transactions created/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Buffer Cache Hit Ratio**

Collects the Windows "Buffer Cache Hit Ratio" performance counter for each instance of SQL 2017 DB Engine on Windows.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Activation: Tasks Started per Second**

Collects the "Broker Activation: Tasks Started per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Activation: Task Limit Reached per Second**

Collects the "Broker Activation: Task Limit Reached per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued P3 Messages per Second**

Collects the "Broker Statistics: Enqueued P3 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued Transport Messages Total**

Collects the "Broker Statistics: Enqueued Transport Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Save points created/sec**

Collects the Windows "Save points created/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Broker/DBM Transport: Pending Message Fragments for Send I/O**

Collects the "Broker/DBM Transport: Pending Message Fragments for Send I/O" performance counter for each instance of SQL 2017 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Activation Errors Total**

Collects the "Broker Statistics: Activation Errors Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Broker Statistics: Enqueued Transport Message Fragments per Second**

Collects the "Broker Statistics: Enqueued Transport Message Fragments per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Phantom expired rows touched/sec**

Collects the Windows "Phantom expired rows touched/sec" performance counter for the XTP engine's phantom processing subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Forwarded Messages per Second**

Collects the "Broker Statistics: Forwarded Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Send I/O Len Average**

Collects the "Broker/DBM Transport: Send I/O Len Average" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cascading aborts/sec**

Collects the Windows "Cascading aborts/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment Receives per Second**

Collects the "Broker/DBM Transport: Message Fragment Receives per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Transfers per Second**

Collects the "HTTP Storage: Transfers per Second" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Number of Lock Requests per Second**

Collects the Windows "Number of Lock Requests per Second" performance counter for each instance of SQL 2017 DB Engine on Windows.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued Transport Message Frag Tot**

Collects the "Broker Statistics: Enqueued Transport Message Frag Tot" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment P3 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P3 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Dusty corner scan retries/sec (user-issued)**

Collects the Windows "Dusty corner scan retries/sec (user-issued)" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Forwarded Pending Message Count**

Collects the "Broker Statistics: Forwarded Pending Message Count" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cursor deletes/sec**

Collects the Windows "Cursor deletes/sec" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Save point refreshes/sec**

Collects the Windows "Save point refreshes/sec" performance counter for XTP engine transactions in SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Expired rows touched/sec**

Collects the Windows "Expired rows touched/sec" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Transactions aborted/sec**

Collects the Windows "Transactions aborted/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Missed Credit Slots**

Collects the Windows "Missed Credit Slots" performance counter for the XTP IO Rate Governor.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Broker/DBM Transport: Receive I/O Buffer Copies bytes per Second**

Collects the "Broker/DBM Transport:Receive I/O Buffer Copies bytes per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Broker Statistics: Enqueued P1 Messages per Second**

Collects the "Broker Statistics: Enqueued P1 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment P4 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P4 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Merge Requests Outstanding**

Collects the Windows "Merge Requests Outstanding" performance counter for the XTP engine's storage subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Parallel GC work item/sec**

Collects the Windows "Parallel GC work item/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Activation: Tasks Running**

Collects the "Broker Activation: Tasks Running" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Average Microseconds/Read**

Collects the "HTTP Storage: Average Microseconds/Read" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Rows touched/sec**

Collects the Windows "Rows touched/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine Average Wait Time (Milliseconds)**

SQL 2017 DB Engine on Windows Average Wait Time performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Checkpoints Closed**

Collects the Windows "Checkpoints Closed" performance counter for the XTP engine's storage subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment Send Size Average**

Collects the "Broker/DBM Transport:Message Fragment Send Size Average" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Phantom scans started/sec**

Collects the Windows "Phantom scans started/sec" performance counter for the XTP engine's phantom processing subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Number of Deadlocks per Second**

Collects the Windows "Number of Deadlocks per Second" performance counter for each instance of SQL 2017 DB Engine on Windows.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Average Microseconds/Write**

Collects the "HTTP Storage: Average Microseconds/Write" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Average Bytes/Read**

Collects the "HTTP Storage: Average Bytes/Read" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cursor scans started/sec**

Collects the Windows "Cursor scans started/sec" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: SQL Receive Total**

Collects the "Broker Statistics: SQL Receive Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment P10 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P10 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Log records written/sec**

Collects the Windows "Log records written/sec" performance counter for XTP transaction logging in SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Total Files Merged**

Collects the Windows "Total Files Merged" performance counter for the XTP engine's storage subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Main GC work items/sec**

Collects the Windows "Main GC work items/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Average Microseconds/Write Comp**

Collects the "HTTP Storage: Average Microseconds/Write Comp" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued P5 Messages per Second**

Collects the "Broker Statistics: Enqueued P5 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Insufficient Credits Waits/sec**

Collects the Windows "Insufficient Credits Waits/sec" performance counter for the XTP IO Rate Governor.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Forwarded Message Discarded Total**

Collects the "Broker Statistics: Forwarded Message Discarded Total" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Send I/Os per Second**

Collects the "Broker/DBM Transport: Send I/Os per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine Stolen Server Memory (MB)**

SQL 2017 DB Engine Stolen Server Memory (MB) performance collection rule on Windows

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Merge Policy Evaluations**

Collects the Windows "Merge Policy Evaluations" performance counter for the XTP engine's storage subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Dropped Messages Total**

Collects the "Broker Statistics: Dropped Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Sweep rows touched/sec**

Collects the Windows "Sweep rows touched/sec" performance counter for the XTP engine's garbage collector.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Average Bytes/Transfer**

Collects the "HTTP Storage: Average Bytes/Transfer" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment P2 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P2 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Sweep scans started/sec**

Collects the Windows "Sweep scans started/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: HTTP Storage I/O Retry per Second**

Collects the "HTTP Storage: HTTP Storage I/O Retry per Second" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Outstanding HTTP Storage I/O**

Collects the "HTTP Storage: Outstanding HTTP Storage I/O" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Rows processed/sec (marked for unlink)**

Collects the Windows "Rows processed/sec (marked for unlink)" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment Receive Size Average**

Collects the "Broker/DBM Transport:Message Fragment Receive Size Average" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Average Bytes/Write**

Collects the "HTTP Storage: Average Bytes/Write" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine Thread Count**

SQL 2017 DB Engine Thread Count performance collection rule

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Phantom rows touched/sec**

Collects the Windows "Phantom rows touched/sec" performance counter for the XTP engine's phantom processing subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cursor inserts/sec**

Collects the Windows "Cursor inserts/sec" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Total Bytes per Second**

Collects the "HTTP Storage: Total Bytes per Second" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Corrupted Messages Total**

Collects the "Broker Statistics: Corrupted Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Current Bytes for Send I/O**

Collects the "Broker/DBM Transport: Current Bytes for Send I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Logins per Second**

Total number of logins started per second. This does not include pooled connections.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment P9 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P9 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Sweep expired rows removed/sec**

Collects the Windows "Sweep expired rows removed/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Rows processed/sec**

Collects the Windows "Rows processed/sec" performance counter for the XTP engine's garbage collector.

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|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Send I/O Bytes per Second**

Collects the "Broker/DBM Transport: Send I/O Bytes per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Writes per Second**

Collects the "HTTP Storage: Writes per Second" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine CPU Utilization (%)**

MSSQL 2017 on Windows DB Engine CPU Utilization (%) performance collection rule.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued P10 Messages per Second**

Collects the "Broker Statistics: Enqueued P10 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Current Bytes for Receive I/O**

Collects the "Broker/DBM Transport: Current Bytes for Receive I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Sweep expired rows touched/sec**

Collects the Windows "Sweep expired rows touched/sec" performance counter for the XTP engine's garbage collector.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment P6 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P6 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Dequeued TransmissionQ Messages per Second**

Collects the "Broker Statistics: Dequeued TransmissionQ Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine Page Life Expectancy (s)**

SQL 2017 DB Engine on Windows Page Life Expectancy (s) performance collection rule

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Io Issued/sec**

Collects the Windows "Io Issued/sec" performance counter for the XTP IO Rate Governor.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Merges Installed**

Collects the Windows "Merges Installed" performance counter for the XTP engine's storage subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued TransmissionQ Messages per Second**

Collects the "Broker Statistics: Enqueued TransmissionQ Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Receive I/O Len Average**

Collects the "Broker/DBM Transport: Receive I/O Len Average" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cursor write conflicts/sec**

Collects the Windows "Cursor write conflicts/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued Messages Total**

Collects the "Broker Statistics: Enqueued Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Reads per Second**

Collects the "HTTP Storage: Reads per Second" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Transactions aborted by user/sec**

Collects the Windows "Transactions aborted by user/sec" performance counter for XTP engine transactions in SQL Server.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Broker/DBM Transport: Receive I/Os per Second**

Collects the "Broker/DBM Transport: Receive I/Os per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment P8 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P8 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Compilations per Second**

Collects the Windows "SQL Compilations per Second" performance counter for each instance of SQL 2017 DB Engine on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Forwarded Messages Total**

Collects the "Broker Statistics: Forwarded Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment P5 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P5 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cursor updates/sec**

Collects the Windows "Cursor updates/sec" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued Local Messages Total**

Collects the "Broker Statistics: Enqueued Local Messages Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued Messages per Second**

Collects the "Broker Statistics: Enqueued Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued P7 Messages per Second**

Collects the "Broker Statistics: Enqueued P7 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Pending Bytes for Send I/O**

Collects the "Broker/DBM Transport: Pending Bytes for Send I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Tentatively-deleted rows touched/sec**

Collects the Windows "Tentatively-deleted rows touched/sec" performance counter for internal XTP engine cursors.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued P8 Messages per Second**

Collects the "Broker Statistics: Enqueued P8 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Broker Transaction Rollbacks**

Collects the "Broker Statistics: Broker Transaction Rollbacks" performance counter for each instance of SQL 2017 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: SQL Send Total**

Collects the "Broker Statistics: SQL Send Total" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Log bytes written/sec**

Collects the Windows "Log bytes written/sec" performance counter for XTP transaction logging in SQL Server.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued P9 Messages per Second**

Collects the "Broker Statistics: Enqueued P9 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Receive I/O Bytes per Second**

Collects the "Broker/DBM Transport: Receive I/O Bytes per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Log Blocks/sec**

Collects the Windows "Log Blocks/sec" performance counter for the XTP IO Rate Governor.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Activation: Task Limit Reached**

Collects the "Broker Activation: Task Limit Reached" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Forwarded Pending Message Bytes**

Collects the "Broker Statistics: Forwarded Pending Message Bytes" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued Local Messages per Second**

Collects the "Broker Statistics: Enqueued Local Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Transaction validation failures/sec**

Collects the Windows "Transaction validation failures/sec" performance counter for XTP engine transactions in SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Activation: Stored Procedures Invoked per Second**

Collects the "Broker Activation: Stored Procedures Invoked per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Dusty corner scan retries/sec (Phantom-issued)**

Collects the Windows "Dusty corner scan retries/sec (Phantom-issued)" performance counter for the XTP engine's phantom processing subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued P6 Messages per Second**

Collects the "Broker Statistics: Enqueued P6 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued P2 Messages per Second**

Collects the "Broker Statistics: Enqueued P2 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL Re-Compilations per Second**

Collects the Windows "SQL Recompiles per Second" performance counter for each instance of SQL 2017 DB Engine on Windows.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Merges Abandoned**

Collects the Windows "Merges Abandoned" performance counter for the XTP engine's storage subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Lock Timeouts per Second**

Collects the Windows "Lock Timeouts per Second" performance counter for each instance of SQL 2017 DB Engine on Windows.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: SQL Sends per Second**

Collects the "Broker Statistics: SQL Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Current Message Fragments for Send I/O**

Collects the "Broker/DBM Transport: Current Message Fragments for Send I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Expired rows removed/sec**

Collects the Windows "Expired rows removed/sec" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Core Merges Completed**

Collects the Windows "Core Merges Completed" performance counter for the XTP engine's storage subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: SQL User Connections**

Counts the number of users currently connected to SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Save point rollbacks/sec**

Collects the Windows "Save point rollbacks/sec" performance counter for XTP engine transactions in SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Open Connection Count**

Collects the "Broker/DBM Transport: Open Connection Count" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Cursor unique violations/sec**

Collects the Windows "Cursor unique violations/sec" performance counter for internal XTP engine cursors.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Total Transactions per Second**

Collects the Windows "Transaction per Second" performance counter for the \_Total instance of the databases performance object for each instance of SQL 2017 DB Engine on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment P1 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P1 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Sweep expiring rows touched/sec**

Collects the Windows "Sweep expiring rows touched/sec" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued P4 Messages per Second**

Collects the "Broker Statistics: Enqueued P4 Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Number of Lock Waits per Second**

Collects the Windows "Number of Lock Waits per Second" performance counter for each instance of SQL 2017 DB Engine on Windows.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Average Microseconds/Transfer**

Collects the "HTTP Storage: Average Microseconds/Transfer" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Total Rate Objects Published**

Collects the Windows "Total Rate Objects Published" performance counter for the XTP IO Rate Governor.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Stale Rate Object Waits/sec**

Collects the Windows "Stale Rate Object Waits/sec" performance counter for the XTP IO Rate Governor.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Read Bytes per Second**

Collects the "HTTP Storage: Read Bytes per Second" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Pending Bytes for Receive I/O**

Collects the "Broker/DBM Transport: Pending Bytes for Receive I/O" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Rows processed/sec (no sweep needed)**

Collects the Windows "Rows processed/sec (no sweep needed)" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Dusty corner scan retries/sec (GC-issued)**

Collects the Windows "Dusty corner scan retries/sec (GC-issued)" performance counter for the XTP engine's garbage collector.

|  |  |  |
| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Rows processed/sec (first in bucket and removed)**

Collects the Windows "Rows processed/sec (first in bucket and removed)" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: HTTP Storage I/O Failed per Second**

Collects the "HTTP Storage: HTTP Storage I/O Failed per Second" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Activation: Tasks Aborted per Second**

Collects the "Broker Activation: Tasks Aborted per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Phantom expiring rows touched/sec**

Collects the Windows "Phantom expiring rows touched/sec" performance counter for the XTP engine's phantom processing subsystem.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Forwarded Messages Discarded per Second**

Collects the "Broker Statistics: Forwarded Messages Discarded per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Phantom expired rows removed/sec**

Collects the Windows "Phantom expired rows removed/sec" performance counter for the XTP engine's phantom processing subsystem.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Forwarded Message Bytes per Second**

Collects the "Broker Statistics: Forwarded Message Bytes per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: HTTP Storage: Average Microseconds/Read Comp**

Collects the "HTTP Storage: Average Microseconds/Read Comp" performance counter for SQL DB Engine that monitor Windows Azure Storage account.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: SQL Receives per Second**

Collects the "Broker Statistics: SQL Receives per Second" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Receive I/O Buffer Copies Count**

Collects the "Broker/DBM Transport:Receive I/O Buffer Copies Count" performance counter for each instance of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Commit dependencies taken/sec**

Collects the Windows "Commit dependencies taken/sec" performance counter for XTP engine transactions in SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Rows processed/sec (first in bucket)**

Collects the Windows "Rows processed/sec (first in bucket)" performance counter for the XTP engine's garbage collector.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Read-only transactions prepared/sec**

Collects the Windows "Read-only transactions prepared/sec" performance counter for XTP engine transactions in SQL Server.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Enqueued Transport Messages per Second**

Collects the "Broker Statistics: Enqueued Transport Messages per Second" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Checkpoints Completed**

Collects the Windows "Checkpoints Completed" performance counter for the XTP engine's storage subsystem.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker Statistics: Dialog Timer Event Count**

Collects the "Broker Statistics: Dialog Timer Event Count" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Broker/DBM Transport: Message Fragment P7 Sends per Second**

Collects the "Broker/DBM Transport: Message Fragment P7 Sends per Second" performance counter for each instance of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine - Tasks**

**Global Configuration Settings**

Global Configuration Settings.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Engine - Console Tasks**

**SQL Management Studio**

**SQL Profiler**

**MSSQL 2017 on Windows: DB File**

Microsoft SQL Server 2017 database file on Windows.

**MSSQL 2017 on Windows: DB File - Discoveries**

**MSSQL 2017 on Windows: Discover SQL Server 2017 DB Files**

This rule discovers the file information for each SQL Server 2017 Database on Windows.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB File - Unit monitors**

**DB File Free Space Left**

The monitor reports a warning when the free space (including both already allocated space and free space on the media) drops below the Warning Threshold setting, expressed as percentage of the sum of data size plus disk free space. The monitor reports a critical alert when the free space drops below the Critical Threshold.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change its state to Critical if the value drops below this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold | The monitor will change its state to Warning if the value drops below this threshold. | 20 | |  |
|  |  |  |

**MSSQL 2017 on Windows: DB File - Rules (non-alerting)**

**MSSQL 2017 on Windows: DB File Free Space Total (MB)**

The amount of space left in a file in megabytes. Also, includes space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: DB File Free Space Total (%)**

The amount of space left in a file in percentage terms. Also, includes space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB File Allocated Free Space (%)**

The amount of space left in a file in percentage terms. Does not include space left on media hosting a file with auto grow enabled

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB File Allocated Free Space (MB)**

The amount of space left in a file in megabytes. Does not include space left on media hosting a file with auto grow enabled.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Filegroup**

Microsoft SQL Server 2017 database Filegroup on Windows.

**MSSQL 2017 on Windows: DB Filegroup - Discoveries**

**MSSQL 2017 on Windows: Discover SQL Server 2017 DB Filegroups**

This rule discovers the Filegroup information for each SQL Server 2017 Database on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Filegroup - Dependency (rollup) monitors**

**DB Files Security**

Rolls up all DB Files security monitors to the DB Filegroup.

**DB Files Performance**

Rolls up all DB Files performance monitors to the DB Filegroup.

**DB Files Configuration**

Rolls up all DB Files configuration monitors to the DB Filegroup.

**DB Files Availability**

Rolls up all DB Files availability monitors to the DB Filegroup.

**MSSQL 2017 on Windows: DB Filegroup - Rules (non-alerting)**

**MSSQL 2017 on Windows: DB Filegroup Allocated Free Space (MB)**

The amount of space left in all files for this Filegroup in megabytes. Does not include space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Filegroup Allocated Free Space (%)**

The amount of space left in all files for this Filegroup in percentage terms. Does not include space left on media hosting a file with auto grow enabled.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Filegroup Free Space Total (%)**

Collects free database Filegroup space in percentage terms.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Filegroup Free Space Total (MB)**

The amount of space left in all files for this Filegroup in megabytes. Also, includes space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: DB FILESTREAM Filegroup**

Microsoft SQL Server 2017 FILESTREAM Filegroup on Windows.

**MSSQL 2017 on Windows: DB FILESTREAM Filegroup - Discoveries**

**MSSQL 2017 on Windows: Discover FILESTREAM Filegroups**

This rule discovers DB FILESTREAM Filegroup information for each SQL Server 2017 Database on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB FILESTREAM Filegroup - Unit monitors**

**DB FILESTREAM Filegroup Free Space**

The monitor reports a warning when the free space drops below the Warning Threshold setting, expressed as percentage of the sum of data size. The monitor reports a critical alert when the free space drops below the Critical Threshold.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change its state to Critical if the value drops below this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold | The monitor will change its state to Warning if the value drops below this threshold. | 20 | |  |
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**MSSQL 2017 on Windows: DB FILESTREAM Filegroup - Rules (non-alerting)**

**MSSQL 2017 on Windows: DB FILESTREAM Filegroup Free Space Total (%)**

Collects free FILESTREAM Filegroup data container space in percentage terms.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB FILESTREAM Filegroup Free Space Total (MB)**

Collects free FILESTREAM Filegroup data container space in megabytes.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Log File**

Microsoft SQL Server 2017 database transaction log file on Windows.

**MSSQL 2017 on Windows: DB Log File - Discoveries**

**MSSQL 2017 on Windows: Discover SQL Server 2017 Transaction Log File**

This rule discovers transaction log files for each SQL Server 2017 Database on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Log File - Unit monitors**

**DB Log File Free Space Left**

The monitor reports a warning when the free space (including both already allocated space and free space on the media) drops below the Warning Threshold setting, expressed as percentage of the sum of data size plus disk free space. The monitor reports a critical alert when the free space drops below the Critical Threshold.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change its state to Critical if the value drops below this threshold. Being between this threshold and the warning threshold (inclusive) will result in the monitor being in a warning state. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold | The monitor will change its state to Warning if the value drops below this threshold. | 20 | |  |
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**MSSQL 2017 on Windows: DB Log File - Rules (non-alerting)**

**MSSQL 2017 on Windows: DB Log File Allocated Free Space (%)**

The amount of space left in all log files for this database in percentage terms. Does not include space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Log File Free Space Total (%)**

The amount of space left in all log files for this database in percentage terms. Also, includes space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Log File Free Space Total (MB)**

The amount of space left in all log files for this database in megabytes. Also, includes space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Log File Allocated Free Space (MB)**

The amount of space left in all log files for this database in megabytes. Does not include space left on media hosting a file with auto grow enabled.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Memory-Optimized Data Container**

Microsoft SQL Server 2017 Database Memory-Optimized Data Filegroup container on Windows.

**MSSQL 2017 on Windows: DB Memory-Optimized Data Container - Discoveries**

**MSSQL 2017 on Windows: Discover Memory-Optimized Data Filegroup Containers**

This rule discovers the container information for each SQL Server 2017 Database on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Memory-Optimized Data Container - Unit monitors**

**Memory-Optimized Data Filegroup Container Free Space**

The monitor reports a warning when the available disk space for the Memory-Optimized Data Filegroup Container drops below the Warning Threshold setting, expressed as percentage of the sum of the Memory-Optimized Data Filegroup Container size plus disk free space. The monitor reports a critical alert when the free space drops below the Critical Threshold.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Critical Threshold | The monitor will change the state to Critical if the value drops below this threshold. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | | Warning Threshold | The monitor will change the state to Warning if the value drops below this threshold. | 20 | |  |
|  |  |  |

**MSSQL 2017 on Windows: DB Memory-Optimized Data Container - Rules (non-alerting)**

**MSSQL 2017 on Windows: Memory-Optimized Data Filegroup container free space (%)**

Collects the amount of free space available in the Memory-Optimized Data Filegroup container, expressed as percentage of the sum of disk free space and the size of data stored in the Memory-Optimized Data Filegroup container.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Memory-Optimized Data Filegroup container free space (MB)**

Collects the amount of free space available for the Memory-Optimized Data Filegroup container (in Megabytes).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: DB Memory-Optimized Data Filegroup**

Microsoft SQL Server 2017 Database Memory-Optimized Data Filegroup on Windows.

**MSSQL 2017 on Windows: DB Memory-Optimized Data Filegroup - Discoveries**

**MSSQL 2017 on Windows: Discover Memory-Optimized Data Filegroup**

This rule discovers the Memory-Optimized Data Filegroup information for each SQL Server 2017 Database on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Memory-Optimized Data Filegroup - Unit monitors**

**Average length of the row chains in the hash buckets**

This monitor checks Hash Index Empty Buckets Count and Average Length of the Row Chains in the SQL Database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Average Chain Length Threshold | Threshold for Average Chain Length that indicates the average length of the row chains in the hash buckets. | 100 | | Display index count | The display count of not configured indexes according to the best practice. | 5 | | Empty Bucket Percent Threshold | Threshold for Empty Bucket Percent that indicates the number of empty buckets in the hash index. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Empty Bucket percent in the hash index**

This monitor checks Hash Index Empty Buckets Count in the SQL Database.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Display index count | The display count of not configured indexes according to the best practice. | 5 | | Empty Bucket Percent Threshold | Threshold for Empty Bucket Percent that indicates the number of empty buckets in the hash index. | 10 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**Memory-Optimized Data Stale Checkpoint File Pairs Ratio**

The monitor reports a warning state and raises an alert when the ratio of stale checkpoint file pairs in Memory-Optimized Data Filegroup is higher than the specified thresholds.  
Please note that the alerts are raised only if the corresponding database is reasonably big (300 or more checkpoint files total).

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Checkpoint File Pairs Threshold | An alert would be generated if Checkpoint File Pairs total count greater than or equal to the Checkpoint File Pairs Threshold. | 300 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | Indicates how many times a measured value should breach the thresholds before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected ratio will be compared against this parameter. | 60 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: DB Memory-Optimized Data Filegroup - Dependency (rollup) monitors**

**Containers Configuration**

Rolls up all Containers configuration monitors to the DB Memory-Optimized Data Filegroup.

**Containers Security**

Rolls up all Containers security monitors to the DB Memory-Optimized Data Filegroup.

**Containers Performance**

Rolls up all Containers performance monitors to the DB Memory-Optimized Data Filegroup.

**Containers Availability**

Rolls up all Containers availability monitors to the DB Memory-Optimized Data Filegroup.

**MSSQL 2017 on Windows: DB Memory-Optimized Data Filegroup - Rules (non-alerting)**

**MSSQL 2017 on Windows: DB Memory-Optimized Data Filegroup Free Space Total (MB)**

Collects the amount of free space available across all containers in the Memory-Optimized Data Filegroup (in Megabytes).

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: XTP Controller DLC Peak Latency**

Collects the Windows "XTP Controller DLC Peak Latency" performance counter for SQL 2017 Database with Memory-Optimized tables.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Merge Target Checkpoint File Pairs**

Collects the number of merge target checkpoint file pairs in Memory-Optimized Data Filegroup.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XTP Memory Used (KB)**

Collects the Windows "XTP Memory Used (KB)" performance counter for SQL 2017 Database with Memory-Optimized tables.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Checkpoint File Pairs Under Construction**

Collects the number of checkpoint file pairs under construction in Memory-Optimized Data Filegroup.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XTP Controller DLC Latency/Fetch**

Collects the Windows "XTP Controller DLC Latency/Fetch" performance counter for SQL 2017 Database with Memory-Optimized tables.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Checkpoint File Pairs Waiting For Log Truncation**

Collects the number of Checkpoint Files Waiting For Log Truncation in Memory-Optimized Data Filegroup.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: XTP Controller Log Processed/sec**

Collects the Windows "XTP Controller Log Processed/sec" performance counter for SQL 2017 Database with Memory-Optimized tables.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Memory Used By Indexes (MB)**

Collects the amount of memory allocated for indexes defined for memory-optimized tables in the given SQL Server 2017 Database on Windows.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: DB Memory-Optimized Data Filegroup Free Space Total (%)**

Collects the amount of free space available across all containers in the Memory-Optimized Data Filegroup, expressed as percentage of the sum of disk free space and the size of data stored in the Memory-Optimized Data Filegroup.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Azure Maximum File Size (MB) | The maximum size of data file stored in Azure BLOB Storage. The workflow will consider this value as a maximum storage capacity for each file. | 1048576 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Active Checkpoint File Pairs**

Collects the number of active checkpoint file pairs in Memory-Optimized Data Filegroup.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Memory Used By Tables (MB)**

Collects the amount of memory allocated for memory-optimized tables in the given SQL Server 2017 Database on Windows.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Precreated Checkpoint Files**

Collects the number of Precreated Checkpoint Files in Memory-Optimized Data Filegroup.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Default Resource Pool**

Microsoft SQL Server 2017 Default Resource Pool on Windows.

**MSSQL 2017 on Windows: Default Resource Pool - Discoveries**

**MSSQL 2017 on Windows: Discover Database Engine Resource Pool managing Memory-Optimized Data resources**

This rule discovers a resource pool that manages Memory-Optimized Data resources of the target SQL Server 2017 database and a relation between Resource Pool and the database.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**MSSQL 2017 on Windows: Discover Database Engine Resource Pools**

This rule discovers all resource pools for a given instance of SQL Server 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Discover only Memory-Optimized Data pools | Must be 'true' or 'false'. When this property is set to true then discovery will disover only pools with bound databases. A database can be bound to a pool by using function sys.sp\_xtp\_bind\_db\_resource\_pool. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Internal Resource Pool**

Microsoft SQL Server 2017 Internal Resource Pool on Windows.

**MSSQL 2017 on Windows: Internal Resource Pool - Discoveries**

**MSSQL 2017 on Windows: Discover Database Engine Resource Pools**

This rule discovers all resource pools for a given instance of SQL Server 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Discover only Memory-Optimized Data pools | Must be 'true' or 'false'. When this property is set to true then discovery will disover only pools with bound databases. A database can be bound to a pool by using function sys.sp\_xtp\_bind\_db\_resource\_pool. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Local DB**

Microsoft SQL Server 2017 Local Database on Windows.

**MSSQL 2017 on Windows: Local DB - Unit monitors**

**MSSQL 2017 on Windows: SQL Server Windows Service**

This monitor checks the status of the Local SQL Server 2017 Database Engine service.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | False | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 60 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | |  |
|  |  |  |

**MSSQL 2017 on Windows: Local DB Engine**

An installation of a Local MSSQL 2017 Database Engine on Windows. The database engine hosts databases and other SQL Server components.

**MSSQL 2017 on Windows: Local DB Engine - Discoveries**

**MSSQL 2017 on Windows: Discover Local SQL Server 2017 Database Engines**

This rule discovers Local SQL Server 2017 DB Engines on Windows.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Mixed Monitoring | Specifies the names of the instances that should be monitored in mixed mode. Use comma to divide instance names. Cluster instances are always monitored in mixed mode. Use "\*" to monitor all local DB Engines in mixed mode |  | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**MSSQL 2017 on Windows: Local DB Engine - Unit monitors**

**SQL Server Windows Service**

This monitor checks the status of the Local SQL Server 2017 Database Engine service.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Alert only if service startup type is automatic | This may only be set to 'true' or 'false'. The workflow will not consider the current startup type setting of the service if this parameter is set to 'false'. Default is 'true'. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 60 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Unavailable Time (seconds) | The minimum duration of service unavailability before considering it unhealthy. | 900 | |  |
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**WMI Health State**

This monitor checks the WMI health state for all namespaces and classes used in the current management pack.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | |  |
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**Service Principal Name Configuration Status**

This monitor checks the status of the Microsoft SQL Server instance Service Principal Name configuration.   
Note that the monitor is always in "Healthy" state for non-domain joined machines.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Scope of search | Use LDAP search when the scope of a search is the domain or an organizational unit. When the scope of a search is the forest, the query can be resolved within any partition by using a Global Catalog (GC) search. List of values: LDAP GC | LDAP | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**MSSQL 2017 on Windows: Local DB Engine - Tasks**

**Stop SQL Server Service**

Stop SQL Server Service.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Start SQL Server Service**

Start SQL Server Service.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Stop SQL Full-text Filter Daemon Launcher Service**

Stop SQL Full-text Filter Daemon Launcher Service. Note that SQL Full-text Search feature is not available in any edition of SQL Server Express, except SQL Server Express with Advanced Services.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Start SQL Agent Service from DB Engine**

Start SQL Agent Service from DB Engine  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

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|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Stop SQL Agent Service from DB Engine**

Stop SQL Agent Service from DB Engine  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Start SQL Full-text Filter Daemon Launcher Service**

Start SQL Full-text Filter Daemon Launcher Service. Note that SQL Full-text Search feature is not available in any edition of SQL Server Express, except SQL Server Express with Advanced Services.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Local DB Engine - Console Tasks**

**SQL Configuration Manager**

**MSSQL 2017 on Windows: Local Discovery Seed**

It is a seed for MSSQL 2017 on Windows installation. This object indicates that the particular server computer contains MSSQL 2017 on Windows installation.

**MSSQL 2017 on Windows: Local Discovery Seed - Discoveries**

**MSSQL 2017 on Windows: Discover Installation Source (seed)**

This rule discovers a seed for MSSQL 2017 on Windows installation. This object indicates that the particular server computer contains MSSQL 2017 on Windows installation.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Frequency in seconds |  | 14400 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Memory-Optimized Data Resource Pool Group**

SQL Server 2017 Memory-Optimized Data Resource Pool Group on Windows contains all SQL Server 2017 Resource Pools that manage Memory-Optimized Data resources on Windows.

**MSSQL 2017 on Windows: Memory-Optimized Data Resource Pool Group - Discoveries**

**MSSQL 2017 on Windows: SQL Server 2017 Memory-Optimized Data Resource Pool Group Discovery**

Discovery of SQL Server 2017 Memory-Optimized Data Resource Pool Group.

**MSSQL 2017 on Windows: Memory-Optimized Data Scope Group**

SQL Server 2017 Memory-Optimized Data Scope Group on Windows contains all SQL Server Memory-Optimized Data objects such as Memory-Optimized Data Filegroups, Containers and Resource Pools on Windows.

**MSSQL 2017 on Windows: Memory-Optimized Data Scope Group - Discoveries**

**MSSQL 2017 on Windows: Memory-Optimized Data Scope Group Discovery**

Discovery of SQL Server 2017 Memory-Optimized Data Scope Group on Windows.

**MSSQL 2017 on Windows: Monitoring Pool Alert Collection**

Microsoft SQL Server 2017 Monitoring Pool Alert Collection on Windows. This object is used to collect Windows module errors and warnings from event log of nodes that are the members of the SQL Server 2017 Monitoring Pool.

**MSSQL 2017 on Windows: Monitoring Pool Alert Collection - Discoveries**

**MSSQL 2017 on Windows: Discover Monitoring Pool Alert Collections**

This rule discovers a Monitoring Pool Alert Collection for a MSSQL 2017 on Windows. This object is used to collect module errors and warnings from event log of nodes that are the members of the SQL Server 2017 Monitoring Pool.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | |  |
|  |  |  |

**MSSQL 2017 on Windows: Discover Local Alert Collections**

This rule discovers a Local Alert Collection for a MSSQL 2017 on Windows. This object is used to collect module errors and warnings from event log of SCOM agents that monitor Local SQL Server 2017 DB Engine instances.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Monitoring Pool Alert Collection - Rules (alerting)**

**MSSQL 2017 on Windows: Discovery warning**

The rule traces discovery workflows warnings and generates warning alerts.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Discovery error**

The rule traces discovery workflows errors and generates error alerts.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Monitoring error**

The rule traces monitoring workflows errors and generates error alerts.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Monitoring warning**

The rule traces monitoring workflows warnings and generates warning alerts.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | Yes | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 1 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Resource Pool**

Microsoft SQL Server 2017 Resource Pool Abstract Class on Windows.

**MSSQL 2017 on Windows: Resource Pool - Rules (non-alerting)**

**MSSQL 2017 on Windows: Target amount of memory the resource pool is trying to attain based on the settings and server state (KB)**

Collects the Windows "Target memory (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: Number of query memory grants per second occurring in the resource pool**

Collects the Windows "Memory grants/sec" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Number of queries waiting for memory grants in the resource pool.**

Collects the Windows "Pending memory grants count" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Number of query memory grant timeouts per second occurring in the resource pool**

Collects the Windows "Memory grant timeouts/sec" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Current memory target for query execution memory grant (KB)**

Collects the Windows "Query exec memory target (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Used amount of memory in the resource pool (KB)**

Collects the Windows "Used memory (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Maximum amount of memory the resource pool can have based on the settings and server state (KB)**

Collects the Windows "Max memory (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Current memory target for cache memory (KB)**

Collects the Windows "Cache memory target (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Total amount of granted memory in the resource pool (KB)**

Collects the Windows "Active memory grants count" performance counter for each resource pool of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Current memory target for query compile (KB)**

Collects the Windows "Compile Memory Target (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: Number of query memory grants in the resource pool**

Collects the Windows "Active Memory grant amount (KB)" performance counter for each resource pool of SQL 2017 DB Engine.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: User Resource Pool**

Microsoft SQL Server 2017 User Resource Pool on Windows Abstract Class.

**MSSQL 2017 on Windows: User Resource Pool - Unit monitors**

**Resource Pool Memory Consumption**

The monitor reports a critical state and raises an alert when the amount of memory used by the resource pool is greater than the Threshold setting, expressed as a percentage of memory available for Memory-Optimized Data tables for the given resource pool.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Number of samples | Indicates how many times a measured value should breach a threshold before the state is changed. | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Threshold | The collected value will be compared against this parameter. | 90 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
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**MSSQL 2017 on Windows: User Resource Pool - Rules (non-alerting)**

**MSSQL 2017 on Windows: User Resource Pool Memory Consumption (MB)**

Collects amount of memory used by the resource pool (in Megabytes).

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: User Resource Pool Memory Consumption (%)**

Collects amount of memory used by the resource pool, expressed as a percentage of memory available for Memory-Optimized Data tables for the given Resource Pool.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | | Timeout for database connection (seconds) | The workflow will fail and register an event, if it cannot access the database during the specified period. | 15 | |  |
|  |  |  |

**MSSQL 2017 on Windows: User-Defined Resource Pool**

Microsoft SQL Server 2017 User-Defined Resource Pool on Windows.

**MSSQL 2017 on Windows: User-Defined Resource Pool - Discoveries**

**MSSQL 2017 on Windows: Discover Database Engine Resource Pool managing Memory-Optimized Data resources**

This rule discovers a resource pool that manages Memory-Optimized Data resources of the target SQL Server 2017 database and a relation between Resource Pool and the database.

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| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
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**MSSQL 2017 on Windows: Discover Database Engine Resource Pools**

This rule discovers all resource pools for a given instance of SQL Server 2017 DB Engine.

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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Discover only Memory-Optimized Data pools | Must be 'true' or 'false'. When this property is set to true then discovery will disover only pools with bound databases. A database can be bound to a pool by using function sys.sp\_xtp\_bind\_db\_resource\_pool. | true | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. |  | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

## Appendix: Known Issues and Troubleshooting

**Rules and monitors may provide incorrect data if default interval override values be changed**

**Issue:** If the value of Interval (seconds) overridable parameter is set lower than the default value, rules and monitors may provide incorrect data.

**Resolution:** Make sure that Interval (seconds) overridable parameter is set no lower than the default value.

**Seed discovery of a deleted platform pack may be still working on the pool nodes**

**Issue:** An error may occur when a platform pack was deleted, but its seed discovery is still working on the pool nodes.

**Resolution:** Upon deletion of a platform pack, delete the corresponding seed discovery manually.

**“Database Status” monitor is constantly changing its status**

**Issue:** If “Auto Close” parameter for the database is set to “True", “Database Status” monitor is constantly changing its status form “Healthy” to “Recovering/Restoring” and vice versa according to the timeout set in the override parameters.

**Resolution:** In view ofthe monitoring operation specifics, no resolution is required.

**Enabling of “Auto Close” database parameter blocks collection of the performance metrics**

**Issue:** If “Auto Close” parameter for the database is set to “True", all performance rules return empty values.

**Resolution:** Set “Auto Close” database parameter back to “False”.

**If a machine containing a monitored agentless instance is not available, multiple errors occur in the watcher node event log**

**Issue:** If a machine containing a monitored agentless instance is not available, multiple SQL Server 2017 Monitoring MP Windows and SQL Server 2017 Discovery MP Windows errors occur in the watcher node event log. The errors will keep coming until the machine is available.

**Resolution:** No resolution available.

**Some issues may occur upon installation of the management pack**

**Issue:** The log reader may begin scanning the whole log of the SQL Server, which may lead to triggering of all alerts found. At that, RepeatCount property may contain excess number of events.

**Resolution:** No resolution available.

**Double quotes in a database name may cause database console tasks failures**

**Issue:** Database console tasks take database names enclosed in double quotes as one of their arguments. A database name may contain any symbol including double quotes. If it does, the console tasks for this database will not work.

**Resolution:** No resolution.

**When an instance is not available, Module.Monitoring.Performance.MSSQLLogReaderEventTrigger exception is received in the event log**

**Issue:** When an instance is not available, Module.Monitoring.Performance.MSSQLLogReaderEventTrigger exception is received in the event log. This exception will keep coming until the instance is available. The interval of this exception coming is equal to the lowest interval set for the alert rules.

**Resolution:** No resolution.

**When an instance is not available, Module.Monitoring.Performance.SqlOsPerfCounterReaderHelper exception is received in the event log**

**Issue:** When an instance is not available, Module.Monitoring.Performance.SqlOsPerfCounterReaderHelper exception is received in the event log. This exception will keep coming until the instance is available. The interval of this exception coming is equal to the lowest interval set for the performance rules.

**Resolution:** No resolution.

**Odd behavior of the monitors’ operational states**

**Issue:** If the resource pool contains more than one management server, the operational states of all the monitors will be changing according to the failover settings of the resource pool.

**Resolution:** No resolution.

**SQL Server 2017 on Docker: multiple errors occur after reboot of the Docker**

**Issue:** Multiple errors occur after reboot of the SQL Server 2017 on Docker because Docker-ID (MachineName) is changed after the reboot.

**Resolution:** In SCOM, go to the monitoring templateproperties, open Service Details tab and click “Retry Connection”.

**Monitoring errors 40 and 121 may occur**

**Issue:** Monitoring errors 40 and 121 may sporadically occur in the event log.

**Resolution:** No resolution.

**Extended discovery intervals**

**Issue:** in case of using a resource pool with several watcher nodes, the discovery intervals may be significantly extended.

**Resolution:** No resolution.

**None of the event rules works on localized SQL DB Engines**

**Issue:** None of the event rules works on localized SQL DB Engines. In current implementation, these rules work with English version only.

**Resolution:** No resolution.

**Cluster instances maintenance mode is not available**

**Issue:** In current implementation, maintenance mode does not work for 2017 cluster instances.

**Resolution:** No resolution.

**Deleted policies are displayed in the Operations Manager.**

**Issue:** SQL Server 2017 on Windows/Linux Policies deleted in SQL Server Management Studio are still displayed in the Operations Manager.

**Resolution:** No resolution.

**Console tasks for Availability Group objects with names containing double-quota character do not work**

**Issue:** Double-quota character may not be used in names of Availability Group and Databases in the Availability Group (for Always On). Therefore, console tasks for objects with such names do not work.

**Resolution:** No resolution.