

Guide to Microsoft System Center Management Pack for SQL Server

Microsoft Corporation

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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

This guide is based on version 6.7.31.0 of the Management Pack for Microsoft SQL Server 2008, SQL Server 2008 R2 and SQL Server 2012.

## Changes History

| **Release Date** | **Changes** |
| --- | --- |
| June, 2017 (version 6.7.31.0 RTM) | * Improved performance of DB Space monitoring workflows * Added new "Login failed" alerting rule for SQL Server event #18456 * Updated the visualization library |
| May, 2017 (version 6.7.30.0 CTP) | * Added new "Availability Database Backup Status" monitor in Availability Group to check the existence and age of the availability database backups (this monitor is disabled by default) * "Database Backup Status" monitor has been changed to return only "Healthy" state for the databases that are Always On replicas, since availability database backups are now watched by the dedicated monitor * Fixed issue: "Active Alerts" view does not show all alerts * Fixed issue: DB space monitoring scripts fail with "Cannot connect to database" error. * Fixed issue: PowerShell scripts fail with "Cannot process argument because the value of argument 'obj' is null" error * Fixed issue: Alert description of "Disk Ready Latency" and "Disk Write Latency" monitors displays the sample count instead of the performance value that was measured * 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: "DB Transaction Log Free Space Total" rules return wrong data * Introduced minor updates to the display strings |
| March, 2017 (version 6.7.20.0 RTM) | * Fixed issue: GetSQL20XXSPNState.vbs fails when domain controller is Read-Only * Fixed issue: SQL ADODB "IsServiceRunning" function always uses localhost instead of server name |
| February, 2017 (version 6.7.16.0 CTP) | * Implemented some enhancements to data source scripts * Fixed issue: The SQL Server 2012 Database Files and Filegroups get undiscovered upon Database discovery script failure * Fixed issue: DatabaseReplicaAlwaysOnDiscovery.ps1 connects to a cluster instance using node name instead of client access name and crashes * Fixed issue: CPUUsagePercentDataSource.ps1 crashes with “Cannot process argument because the value of argument "obj" is null” error * Fixed issue: Policy field length is restricted to 256 symbols like help\_link policy * Fixed issue: Description field of custom user policy cannot be discovered * Fixed issue: SPN Status monitor throws errors for servers not joined to the domain * Fixed issue: SQL Server policy discovery does not ignore policies targeted to system databases in some cases * Increased the length restriction for some policy properties in order to make them match the policy fields) * Actualized Service Pack Compliance monitor according to the latest published Service Packs for SQL Server |
| December, 2016 (version 6.7.15.0 RTM) | * No extra permissions on remote WMI are now required for Local System account when Always On hosts have names that are no longer than 15 symbols * Fixed: Always On discovery and monitoring scripts cannot read cashed values in Windows registry * Fixed: Wrong MP version number in some Always On scripts * Fixed: CPUUsage and DBDiskLatency scripts fail with the reason: "Index operation failed" * Added retry policy in some Always On workflows to make PS-scripts work more stable * Updated the visualization library * Changed behavior of Always On scripts for cases when WSFC service is stopped |
| October, 2016 (version 6.7.7.0 RTM) | * Fixed issue: SQL Server 2012 Always On discoveries fail after stopping WSFC service * Fixed issue: “Set DB offline” task does not work when the database is in Availability Group * Fixed issue: user policy discovery script fails with “Invalid namespace "ROOT\Microsoft\SqlServer\ComputerManagement12"' error * Fixed issue: Always On console task does not work * Updated the visualization library |
| September, 2016 (version 6.7.5.0 CTP2) | * Added support for configurations where computer host names are longer than 15 symbols * Added “Event ID” to descriptions of all the alerts generated by the alerting rules * Deprecated “Run As Account does not exist on the target system, or does not have enough permissions” rule * Added 2 rules for alerts generating when there are problems with execution of the monitoring workflows scripts on the following agents: “MSSQL: Monitoring failed” and “MSSQL: Monitoring warning” * Added “MSSQL 20XX: Discovery warning” rules to generate alerts when there are non-critical problems with execution of the discovery scripts (warning events in the Operations Manager log) * Changed “MSSQL 20XX: Discovery failed” rules to generate alerts for only critical errors during executing discovery scripts * Improved error logging in the MP scripts * Fixed some issues in the scripts, which could lead to unstable work with WMI * Updated the visualization library |
| August, 2016 (version 6.7.3.0 CTP1) | * Added support for databases stored on SMB Shares * Fixed error logging in a script for Blocking Sessions monitor * Removed files of SQL 2005 MP from the installer since this MP is no longer supported * Fixed issue: CPU Usage monitor & rule did not work for SQL Server cluster instance * Fixed issue: connection to an SQL Server instance was not closing when the destination was wrong * Fixed Non-Readable Replica detection (Always On) * Made detection condition stricter for DB User Policy event-based discovery: added management group name * Made detection condition stricter for Script Failed alerting rule: added management group name |
| June, 2016 (version 6.7.2.0 RTM) | * Added rules for alerting when an Availability Replica changed its role and/or a Database Replica changed its role * Created a group for WOW64 SQL Server instances and disabled launching of some workflows for these instances * Added MP version line into MP events generated by the scripts * Fixed the display strings and Knowledge Base articles * Fixed issue: some scripts were not returning data when one of the few installed instances was stopped * Fixed issue: SPN configuration monitor used stale data * Fixed issue: mirroring monitoring scripts were failing when the instance was stopped |
| June, 2016 (version 6.7.1.0 CTP2.1) | * Updated the visualization library |
| May, 2016 (version 6.7.0.0 CTP2) | * Fixed Always On Database replica discovery incorrect behavior; fixed Always On policies discovery and monitoring * Fixed Database policies discovery and monitoring * Fixed and optimized CPU Usage monitoring scripts (the issue appeared when only one core was assigned) * Added support for more than 32 processors count in CPU Usage monitoring. * SQLPS module is now used for the tasks instead of deprecated SQLPS.EXE * Implemented FILESTREAM filegroup monitoring * Multiple Ports are now supported in SQL Server TCP/IP parameters * Fixed error occurring when no port is specified in SQL Server TCP/IP parameters * Fixed filegroup read-only state discovery * Fixed Run As profiles mapping for some workflows * Implemented support for TLS 1.2 in connection logic * Implemented support for different client drivers in connection logic * Updated connection logic error logging * Added Run As profiles for mirroring monitors, fixed mirroring discovery issues * Fixed issue: CPU usage monitor ignored SQL server limitations on CPU core count * Fixed display strings and Knowledge Base articles * Fixed error reporting in the scripts |
| March, 2016 (version 6.6.7.6 CTP1) | * Fixed intermittent "Cannot login to database" alert with some rules * Added support for SQL Express Instances * Updated Knowledge Base articles * Microsoft SQL Server 2012 x86 on Windows 2008 R2: fixed the issue when DB filegroups cannot be discovered * Win10 support: fixed "Cannot bind argument to parameter 'Path' because it is an empty string." issue * Fixed issue when SQL Configuration Manager starts snap-in of wrong version * Fixed invalid Always On non-readable replica detection |
| November, 2015 (version 6.6.4.0) | * Updated the visualization library |
| November, 2015 (version 6.6.3.0) | * Updated the visualization library * Fixed the error message in SQL DB discovery script |
| October, 2015 (version 6.6.2.0) | * Added a support for disabled TCP/IP protocol * Fixed performance metrics error that may occur on some localized versions of Windows * Fixed issues in monitor tiles on SQL Server Summary Dashboard * Fixed incorrect performance of Transaction log free space monitor * Added new type of events from failed discoveries; added a new rule that collects such events * Added overrides to prevent various scripts timeout failure * Removed some 1X1 tiles from Summary Dashboards * FILESTREAM filegroups are excluded from discovery for now * 2008/2012 Summary Dashboards tiles were reorganized |
| June, 2015 (version 6.6.0.0) | * Replaced the Dashboards with new ones * Components of replication functionality are deprecated and disabled by default * SPN monitor now correctly handles disjoined namespaces * Added support for filegroups containing filestreams and partition schemes * Memory Consumption monitor has been fixed * Upgradeability from 6.4.1.0 version is supported * Added CPU Usage monitor and rule for SQL Server 2005 * Added ConsecutiveSamples Condition to the Buffer Cache Hit Ratio and Page Life Expectancy monitors * Always On discovery was reworked * Minor fixes |
| December 2014 (version 6.5.4.0) | * Added Mirroring monitoring scenarios for SQL Server 2012 product * SPN monitor now has overridable ‘search scope’, which allows the end user to choose between LDAP and Global Catalog * Fixed the error with blocked discovering DBs on Windows 2003 * Fixed Timeout error in CPU utilization monitoring scenario * Monitoring SQL Server Instances on the same server with their own network interfaces and default port is now available * SQL Server instances with underscores and other allowed special symbols in names can be monitored * Minor fixes. |
| June 2014 (version 6.5.1.0) | * New dashboards (instance level and database level) for both SQL 2008 and SQL 2012. * Integration with Microsoft SQL Server Presentation Management Pack, the folder and views structure has been updated. * Support of localized performance counters (CPU and Disk metrics) has been added. * Monitors have been updated to use consecutive samples instead of average sample value. * Removed SQL Default Action Run AS from Write Actions. * None-Default port is now supported * New property - Server Role Type * Performance collection rules have been updated to use none-optimized performance collection to improve the accuracy of daily and hourly-aggregated data. * AllwaysOn Read-Intent error fixed, Read-Intent Monitoring is not supported. * Performance counter object name changed for a number of rules. * Discoveries have been disabled for Analysis Services and Reporting Services. * Icons updated for a number of classes. * Minor fixes. |
| October 2013 (version 6.4.1.0) | * Fixed CPU Utilization Monitor * Fixed SQL Server seed discovery for WoW64 environments * Alert severity of Average Wait Time Monitor was changed to Warning, added consecutive sampling to reduce noise, threshold was changed to 250 * Alert severity of SQL Re-Compilation monitor was changed to Warning, threshold was changed to 25. The monitor was disabled by default. * Minor fixes |
| September 2013 (version 6.4.0.0) | * New Dashboard for SQL Server 2012 DB * New Monitors and Rules – only for SQL 2008 and SQL 2012   + Collect DB Active Connections count   + Collect DB Active Requests count   + Collect DB Active Sessions count   + Collect DB Active Transactions count   + Collect DB Engine Thread count   + Thread Count monitor   + Transaction Log Free Space (%) monitor   + Transaction Log Free Space (%) collection   + Collect DB Engine CPU Utilization (%)   + CPU Utilization (%) monitor for DB engine   + Buffer Cache Hit Ratio monitor   + Collect DB Engine Page Life Expectancy (s)   + Page Life Expectancy monitor   + Collect DB Disk Read Latency (ms)   + Collect DB Disk Write Latency (ms)   + Disk Read Latency monitor   + Disk Write Latency monitor   + Collect DB Transactions per second count   + Collect DB Engine Average Wait Time (ms)   + Average Wait Time monitor   + Collect DB Engine Stolen Server Memory (MB)   + Stolen Server Memory monitor   + Collect DB Allocated Free Space (MB)   + Collect DB Used Space (MB)   + Collect DB Disk Free Space (MB)   + SQL Re-Compilation monitor * SPN monitor improved * Support for special symbols in DB names. * Improved Always On seed discovery * Run As configuration changes to support Low-privilege for SQL Server 2012 Cluster * Improved performance of Always On discovery * Custom User Policy Discovery and Monitoring performance optimization * Hided AG health object from Diagram view * Minor changes |
| August 2012 (version 6.3.173.1) | * Fixed DB Filegroup Free Space issue |
| February 2012 (version 6.3.173.0) | * Added support of SQL Server 2012 * Added support of SQL Server 2012 Always On Monitoring   + Automatically discover and monitor availability groups, availability replicas, and database replicas for hundreds of computers.   + Health roll-up from database replicas to availability replicas.   + Detailed knowledge with every critical health state to enable faster resolution to a problem.   + Seamless integration with Policy Based Management (PBM)     - Auto-discover custom PBM polices targeting Always On and database components.     - Rollup of health of policy execution within the SQL management pack under extended health.     - SQL DB PBM monitoring is supported     - Added support of SQL Server 2008 Mirroring monitoring (only applicable to SQL Server 2008 and 2008 R2 version of management pack)       * Discover mirroring databases, witness, and mirroring group.       * Monitor database mirror state, database mirror witness state, and mirroring partners’ state.       * Custom diagram view to visually represent the primary and the mirrored databases. * Added support of SQL Server 2008 Replication monitoring   + Approximately twenty rules to detect replication events. * Free space monitoring was improved with mount point support. * Support for SCOM 2012. * Fixed the following issues: * Updated display strings for SQL 2008 MPs to match same style * SEED discovery introduces for SQL 2008 and SQL 2012 MPs * Fixed DB Free space monitoring problems reports by customers * Fixed issue related to false alert when Full text search component is not installed * Blocking sessions monitor has been fixed, now it shows head blocker in case of long queries * Optimized the SQL MP SQL queries to run more efficiently * Monitoring of Service Principal Name * Created a dedicated Group for all SQL components * Introduced Database Backup Status monitoring * Master DB location script now scans for parameters from registry * Minor fixes in Knowledge Bases and display strings |
| May 2011 (version 6.1.400.00) | * Documented association of Run As profiles and targets for account mapping. * Made minor fixes in string resources. * Made security improvements. |
| July 2010 (6.1.314.35) | * Removed DMO installation requirement. * Added support for SQL Server 2008 R2 and removed support for SQL Server 2000. * Made security improvements. * Documented settings for low-privilege environments. * Introduced new rules and monitors, updated existing rules and monitors, and improved Knowledge Base information. * Populated empty alert descriptions. * Improved database consistency check monitoring and introduced detailed configuration monitoring for the ‘SQL Database’ object. * Reconfigured space monitoring takes into account autogrow settings and all levels of storage hierarchy in SQL Server (DB File, DB Log File, DB Filegroup and Database). * Fixed the following issues: * Filegroup discovery fails when Databases are excluded. * SQL DB Engine version is incorrect * “Last Run Status” monitor changes states inappropriately. * SQL Agent Job Discovery fails when some job properties are NULL. * Default interval for the rule “Logins per second” is not compliant with MPBA. * Monitor “SQL Server Windows Service” turns to red state when service is restarting. * “Script: Failed to login” alert is triggered if service is unavailable. * DB files, DB filegroups and DB Log files discoveries are not triggered consistently. * Frequently changed properties of DB affect performance of the monitored system. * Discovery intervals for “Discover Databases for a Database Engine”, “Discover Replication Components”, and “Agent job discovery” are not compliant with MPBPA. * Full Text Search Service Start/Stop tasks do not work on SQL 2008 Cluster. * Disabled the following monitors and rules to cut down noise:   Monitors:   * SQL Server Full Text Search Service * Blocking Sessions * Long Running Jobs * Auto Close Configuration * Auto Create Statistics Configuration * Auto Shrink Configuration * Auto Update Statistics Configuration * DB Chaining Configuration * DB Total Space * DB Space Percentage Change   Rules:   * SQL Server Service Broker or Database Mirroring Transport stopped * SQL Server Service Broker transmitter shut down due to an exception or a lack of memory * SQL Server Service Broker or Database Mirroring is running in FIPS compliance mode * The SQL Server Service Broker or Database Mirroring transport is disabled or not configured * An SQL Server Service Broker procedure output results * The Service Broker or Database Mirroring Transport has started * Process Worker appears to be non-yielding on Scheduler * IO Completion Listener Worker appears to be non-yielding on Node * An SQL job failed to complete successfully * IS Service has attempted to stop a running package * Deprecated the following monitors and rules:   Monitors:   * DB Space Free (MB) * DB Log File Space Free (%) * DB Log File Space Free (MB) * Disk Free Space   Rules:   * Collect Database Size (MB) * Collect Transaction Log Free Space (MB) * Collect Transaction Log Free Space (%) * Collect Transaction Log Size (MB) * An exception occurred while encrypting a message in the target queue * Could not find column in syscolumns for object in database * DBCC executed found and repaired errors * Cannot retrieve row from page by RID because the slotid is not valid * Could not retrieve row from page by RID because the requested RID has a higher number than the last RID on the page * The non-clustered index indicated by the index ID is in error * Table error: Page is allocated to different object found in page header |
| October 2009 (version 6.0.6648.0) | Fixed an issue with all versions of the SQL MP, where event based workflows were not working on clustered instances of SQL that were clustered on the Windows Server 2003 operating system.  In order for this fix to work fully on Windows Server 2003 and Windows Server 2008 operating systems, all agents on clustered nodes need to be running either Operations Manager 2007 R2, or Operations Manager 2007 SP1 with the update installed from Knowledge Base article 959865, [Issues that are resolved by the Operations Manager Module rollup update for System Center Operations Manager 2007 Service Pack 1](http://go.microsoft.com/fwlink/?LinkId=155339). For more information, see “Rules and monitors that are based on events from the event log do not work reliably on clustered installations of SQL” in [Appendix: known issues and troubleshooting](#zab299e131d71444aa6926eb67f26ce23). |
| March 2009 (6.0.6569.0) | * Fixed performance issues caused by excessive CPU utilization and script timeouts from Windows Management Instrumentation (WMI) queries in the following management pack discoveries: Discover SQL Server 2005 Database Engines (Windows Server), Discover SQL Server 2005 Reporting Services (Windows Server), Discover SQL Server 2005 Analysis Services (Windows Server), Discover SQL Server 2008 Database Engines (Windows Server), Discover SQL Server 2008 Reporting Services (Windows Server), Discover SQL Server 2008 Analysis Services (Windows Server). * Fixed an issue where SQL Server 2005 and SQL Server 2008 Analysis Services and Reporting Services discoveries were not reliably discovering these objects on instances of SQL Server that did not have the Database Engine installed. * Removed the hard-coded exception in rules and monitors that prevented the monitoring of the System, Temp, and Master databases. * Improved the means by which database discoveries recognize autogrowth enabled settings. Database discoveries now recognize both “KB” and “%” growth settings; previously the database discoveries recognized only the “KB” growth setting. * Corrected typographical errors in product knowledge and improved the quality of the text. |
| November 2008 (version 6.0.6460.0) | * The DB discovery script casts the values that correspond to “Database Size (MB) (Numeric)” and “Log Size (MB) (Numeric)” as INT, to avoid overflows exceptions within the script itself. * The DB discovery script checks for possible overflow on the “Database Size (MB) (Numeric)” and “Log Size (MB) (Numeric)” values and prevents those overflows from occurring. * The numeric properties on the database class are limited to 2147483647 MB (~2047 terabytes). In the event that a database or log file exceeds that size, the value will be set to the maximum possible value of 2147483647 MB to prevent overflows. In these instances, the “Database Size (MB) (String)” and “Log Size (MB) (String)” will support larger values. |
| October 2008 (version 6.0.6441.0) | General Changes:   * The management pack now includes the SQL Server 2008 discovery and monitoring management packs. SQL Server 2008 monitoring is identical to the SQL Server 2005 Management Pack, including the new functionality added in this release for SQL Server 2005 monitoring. * Addressed issues with a few performance rules attempting to collect performance counters or instances by the wrong name * Updated a number of discoveries, rules, and tasks to ensure they use the correct Run As profiles for discovery and monitoring. * Updated the criteria on a number of event-based rules to make their criteria more specific to reduce alert volumes. * SQL DB Engine discovery will now work on systems that do not have the SQL tools installed. * The SQL Server 2005 Management Pack and SQL Server 2008 Management Pack support discovery and partial monitoring of 32-bit instances of SQL components installed on 64-bit operating systems. This is discussed in more detail in the “Supported Configurations” section of this guide. * All monitors are now set to public accessibility, allowing increased customization. Most notably, custom diagnostics and recoveries can now be added. * The “Database Size” and “Log Size” properties of databases are now available as a numeric property, in addition to the string form of the property that already existed. * Updated knowledge for various reports. * Database snapshots are no longer discovered and monitored as if they were a full-fledged database. * The possible states of the “Blocking SPIDs” monitor in all management packs have been changed to better align with the default override behaviors. Previously, the monitor could either be in a “Success” or “Warning” state. The “Warning” state has been replaced with “Error”.   Changes to the SQL Server 2000 Management Pack:   * The default thresholds for the “Job Duration” have been revised. The numbers were previously an integer corresponding to minutes when it should have been in the format of HHMMSS. The knowledge for this monitor has been updated to more clearly explain the format of the threshold. * Changed the frequency at which the SAPasswordMonitor.vbs script is run from 24 seconds to 24 hours.   Changes to SQL Server 2005 Management Pack:   * Added monitoring for log shipping with the “Destination Log Shipping Monitor” and “Source Log Shipping Monitor” monitors. * Fixed a few typos and formatting issues with product knowledge in various places. |
| March 2008 | General Changes:   * The “Transaction Log Space Free (%)” monitor was made public for both SQL Server 2000 and SQL Server 2005 to allow for further customization. * Some corrections were made and additional detail provided in the “Key Monitoring Scenarios” sections of this guide. * Removed the hard-coded exception for jobs with a specific name from the “A SQL job failed to complete successfully” rules for both SQL Server 2000 and SQL Server 2005. * Fixed an issue with the scripts used to calculate database free space, which was preventing some databases from having their free space correctly monitored on SQL installations that did not have databases with contiguous IDs. * Corrected typographical errors.   Changes to the SQL Server 2000 Management Pack:   * Fixed an issue where incorrect free space values were being calculated for some SQL Server 2000 databases.   Changes to SQL Server 2005 Management Pack:   * A fix was made to address issues with collection of performance data from specific instances of Analysis Services. * Significant changes were made to the “Database Status” monitor in the SQL Server 2005 Management Pack. The monitor now has three states reflecting good, bad, and neither. The possible database states have been realigned into these categories, which will reduce “false-positive” alert volumes specifically when log shipping and database backups are occurring. |
| December 2007 | General Changes:   * Corrected typographical errors, missing display strings, and localization issues in all SQL Server Management Packs * Fixed an issue where incorrect values were being populated for “Category” and “Owner” of discovered SQL jobs * Updated the “SQL Server Configuration” report in both SQL Server Management Packs to take advantage of the respective version specific SQL DB Engine class * Fixed issues in the SetSQL2005DBState.js, GetSQL2000DBSpace.js and SetSQL2000DBState.js scripts   Changes to the SQL Server 2000 Management Pack:   * Renamed the SQL Server 2000 instance of the “GetSQL2005AgentJobStatus.vbs” script to “GetSQL2000AgentJobStatus.vbs” and updated the script to work with SQL Server 2000 * Set the “SQL DB Engine Service Health Rollup” and “AD Helper Health Rollup” rollup monitors to be enabled by default * Fixed an issue with the state of the “User Connections Baseline” and “AD Helper Service Busy” monitors * Made the following monitors public to allow customization: * “Auto Close Flag” * “Auto Create Statistics Flag” * “Auto Shrink Flag” * “Auto Update Flag” * “DB Chaining Flag”   Changes to SQL Server 2005 Management Pack:   * Added optimized performance collection rules for “Lock Waits/sec” and “Lock Requests/sec” * Fixed a number of issues with the SQL Server 2005 database free space scripts * Fixed a number of issues with the SQL agent job discovery for SQL Server 2005 * Fixed a script that was resulting in invalid alerts being generated from the agent job’s “Job Duration” monitor * Added missing SQL Server 2005 agent tasks on actions panel for SQL Agent Job State view * Added Locks:LockWaits and Locks:LockRequests to the SQL Server Lock Analysis report * Added support for discovery of push subscriptions |

Supported Configurations

SQL Server Management Pack is designed for the following versions of System Center Operations Manager:

* System Center Operations Manager 2007 R2 (Except Dashboards)
* System Center Operations Manager 2012 SP1
* System Center Operations Manager 2012 R2
* System Center Operations Manager 2016

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

|  |  |
| --- | --- |
| **Configuration** | **Support** |
| SQL Server 2008  SQL Server 2008 R2  SQL Server 2012 | Windows Server 2008  Windows Server 2008 R2  Windows Server 2012  Windows Server 2012 R2  Windows Server 2014  Windows Server 2016 (for SQL Server 2012)   * 64-bit SQL Server on 64-bit OS * 32-bit SQL Server on 32-bit OS   **Note**: 32-bit SQL Server instances are not supported on 64-bit OS |
| Clustered servers | Yes |
| Agentless monitoring | Not supported |
| Virtual environment | Yes |

For each version of SQL Server, the following editions are supported (when applied):

 Data Center

This edition is new for SQL Server 2008 R2.

 Enterprise

 Developer

 Standard

We recommend that you monitor no more than 50 databases and 150 database files per agent to avoid spikes in CPU usage that may affect the performance of the monitored computers.

Agentless monitoring is not supported. The monitoring for clustered resources is supported.

For more information and detailed instructions on setup, configuration, and monitoring of clustered SQL Server resources, see Configuration for Monitoring Clustered Resources in [Other Requirements](#z2afdc9b089224cb2a3246ed4ff1b9c49) section of this guide.

The current version of Management Pack provides monitoring of Mirroring SQL Server 2008, SQL Server 2008 R2, and SQL Server 2012.

Note that neither SQL Server Express edition (SQL Server Express, SQL Server Express with Tools, SQL Server Express with Advanced Services) support SQL Server Agent, Log Shipping, Always On, OLAP Services and Data Mining, Analysis Services and Integration Services.

In addition, SQL Server Express and SQL Server Express with Tools do not support Reporting Services and Full text search. However, SQL Server Express with Advanced Services support Full text search and Reporting Services with limitations.   
All SQL Server Express editions support Database mirroring as Witness, and Replication as Subscriber only.

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.

Getting Started

SQL Server Management Pack provides both proactive and reactive monitoring of Microsoft Server 2008, SQL Server 2008 R2 and SQL Server 2012 components, such as database engine instances, databases, and SQL Server agents.

Authoring pane of the Operations Manager console can be used to enable discovery of these components.

The monitoring provided by this management pack includes availability and configuration monitoring, performance data collection, and default thresholds. You can integrate the monitoring of SQL Server components into your service-oriented monitoring scenarios.

In addition to health monitoring capabilities, this management pack includes dashboard views, extensive knowledge with embedded inline tasks, and views that enable near real-time diagnosis and resolution of detected issues.

For more information about enabling object discovery, see [Object Discoveries in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=108505) topic in the Operations Manager Help.

You can find SQL Server Management Pack at the System Center Operations Manager catalog (<http://go.microsoft.com/fwlink/?LinkId=82105>). The latest version of this document is available on Microsoft TechNet <http://go.microsoft.com/fwlink/?LinkId=85414>.

Before You Import the Management Pack

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

Files in this Management Pack

The following table describes the files included in this Management Pack.

| **File** | **Display name** | **Description** |
| --- | --- | --- |
| Microsoft.SQLServer.Library.mp | Microsoft SQL Server Core Library | Contains the object types and groups that are common to SQL Server 2008, SQL Server 2008 R2 and SQL Server 2012. |
| Microsoft.SQLServer.Visualization.Library.mpb | Microsoft SQL Server Visualization Library | Contains basic visual components required for SQL Server dashboards. |
| Microsoft.SQLServer.2008.Discovery.mp | Microsoft SQL Server 2008 (Discovery) | Contains definitions for object types and groups that are specific to SQL Server 2008 and SQL Server 2008 R2. It contains the discovery logic to detect all objects of the type defined on servers running SQL Server 2008 and SQL Server 2008 R2. |
| Microsoft.SQLServer.2008.Monitoring.mp | Microsoft SQL Server 2008 (Monitoring) | Provides all monitoring for SQL Server 2008 and SQL Server 2008 R2.  Note  SQL Server 2008 and SQL Server 2008 R2 will not be monitored until you import this management pack. |
| Microsoft.SQLServer.2008.Mirroring.Discovery.mp | Microsoft SQL Server 2008 Mirroring (Discovery) | Contains definitions for object types and groups that are specific to SQL Server 2008. It contains the discovery logic to detect all objects of the type defined on servers running SQL Server 2008 and SQL Server 2008 R2, which use Mirroring. |
| Microsoft.SQLServer.2008.Mirroring.Monitoring.mp | Microsoft SQL Server 2008 Mirroring (Monitoring) | Provides all monitoring for Mirroring in SQL Server 2008 and SQL Server 2008 R2.  Note  Mirroring for SQL Server 2008 and SQL Server 2008 R2 will not be monitored until you import this management pack. |
| Microsoft.SQLServer.2012.Discovery.mp | Microsoft SQL Server 2012 (Discovery) | Contains definitions for object types and groups that are specific to SQL Server 2012. It contains the discovery logic to detect all objects of the type defined on servers running SQL Server 2012. |
| Microsoft.SQLServer.2012.Monitoring.mp | Microsoft SQL Server 2012 (Monitoring) | Provides all monitoring for SQL Server 2012.  Note  SQL Server 2012 will not be monitored until you import this management pack. |
| Microsoft.SQLServer.2012.Mirroring.Discovery.mp | Microsoft SQL Server 2012 Mirroring (Discovery) | Contains definitions for object types and groups that are specific to SQL Server 2012. It contains the discovery logic to detect all objects of the type defined on servers running SQL Server 2012, which use Mirroring. |
| Microsoft.SQLServer.2012.Mirroring.Monitoring.mp | Microsoft SQL Server 2012 Mirroring (Monitoring) | Provides all monitoring for Mirroring in SQL Server 2012.  Note  Mirroring for SQL Server 2008 and SQL Server 2008 R2 will not be monitored until you import this management pack. |
| Microsoft.SQLServer.2012.AlwaysOn.Discovery.mp | Microsoft SQL Server 2012 Always On (Discovery) | Contains definitions for object types and groups that are specific to SQL Server 2012 Always On. It contains the discovery logic to detect all objects of the type defined on servers running SQL Server 2012 Always On. |
| Microsoft.SQLServer.2012.AlwaysOn.Monitoring.mp | Microsoft SQL Server 2012 Always On (Monitoring) | Provides all monitoring for SQL Server 2012 Always On  Note  SQL Server 2012 Always On (Availability Groups, Availability Replicas and Database Replicas) will not be monitored until you import this management pack. |
| Microsoft.SQLServer.2012.Presentation.mp | Microsoft SQL Server 2012 Presentation | SQL Server 2012 Presentation management pack. This management pack adds SQL Server 2012 Summary Dashboard. |
| Microsoft.SQLServer.2008.Presentation.mp | Microsoft SQL Server 2008 Presentation | SQL Server 2008 Presentation management pack. This management pack adds SQL Server 2008 Summary Dashboard. |
| Microsoft.SQLServer.Generic.Dashboards.mp | Microsoft SQL Server Generic Dashboards | Generic Dashboards Management Pack |
| Microsoft.SQLServer.Generic.Presentation.mp | Microsoft SQL Server Generic Presentation | Generic Presentation management pack. |

The management pack also includes Microsoft Software License Terms, Datacenter Dashboard Guide and SQL Server Management Pack Guide.

Other Requirements

To run the SQL Management Studio task and the SQL Profiler task, you must have SQL Server Management Studio and SQL Server Profiler installed on all Operations Manager computers where these tasks will be used.

If you try to run one of these tasks without the appropriate features installed, you will receive "The system cannot find the file specified" error message.

You do not need SQL Server Management Studio or SQL Server Profiler for discovery and monitoring.

#### Configuration for Monitoring Clustered Resources

To monitor clustered resources, perform the following tasks:

1. Install the Operations Manager agent on each physical node of the cluster.

2. Enable the Agent Proxy option on all agents installed on servers that are members of the cluster. For instructions, see the procedure that follows this list.

3. Associate the Windows Cluster Action Account Run As profile with an account that has administrator permissions for the cluster, such as the Cluster service account that is created when you configure the cluster. If the Default Action Account Run As profile for cluster nodes is associated with Local System or with another account that has administrator permissions for the cluster, then no additional associations are required. For instructions on associating an account with a profile, see [How to Change the Run As Account Associated with a Run As Profile in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=128539) article.

Important

All agents on clustered nodes need to be running Operations Manager 2007 R2, or Operations Manager 2007 SP1 with the update installed from Knowledge Base article 959865, [Issues that are resolved by the Operations Manager Module rollup update for System Center Operations Manager 2007 Service Pack 1](http://go.microsoft.com/fwlink/?LinkId=155339). For more information, see “Rules and monitors that are based on events from the event log do not work reliably on clustered installations of SQL” in [Appendix: Known Issues and Troubleshooting](#zab299e131d71444aa6926eb67f26ce23).

##### Enable the Agent Proxy Option

|  |
| --- |
| 1. Open the Operations Manager 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.  5. Repeat steps 3 through 4 for each agent that is installed on a clustered server. |

When the discovery occurs, each physical node of the cluster is displayed in the Operations Manager console in the Agent Managed pane; the cluster and each named application instance are displayed in the Agentless Managed pane.

Notes

Having a SQL Server cluster resource group that contains more than one network name resource might mean that the clustered SQL Server resource is not monitored. For more information, see [Knowledge Base Article 919594](http://go.microsoft.com/fwlink/?LinkId=128289).

To ensure proper monitoring of cluster resources, when you add a resource to a cluster, do not change the name that is assigned to the resource in the Cluster Administrator user interface by default.

Import the Management Pack

For more information about importing a management pack, see [How to Import a Management Pack in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=142351) article.

To start monitoring, import management pack files for your version of SQL Server: library, discovery and monitoring.

|  |  |
| --- | --- |
| **SQL Server 2008 and SQL Server 2008 R2** | |
| Library | Microsoft.SQLServer.Library.mp |
| Generic | Microsoft.SQLServer.Generic.Presentation.mp |
| Generic | Microsoft.SQLServer.Generic.Dashboards.mp |
| Discovery | Microsoft.SQLServer.2008.Discovery.mp |
| Monitoring | Microsoft.SQLServer.2008.Monitoring.mp |
| Library | Microsoft.SQLServer.Visualization.Library.mpb |
| Presentation | Microsoft.SQLServer.2008.Presentation.mp |
| **SQL Server 2008 and SQL Server 2008 R2 Mirroring** | |
| Library | Microsoft.SQLServer.Library.mp |
| Generic | Microsoft.SQLServer.Generic.Presentation.mp |
| Generic | Microsoft.SQLServer.Generic.Dashboards.mp |
| Discovery | Microsoft.SQLServer.2008.Discovery.mp |
| Discovery | Microsoft.SQLServer.2008.Mirroring.Discovery.mp |
| Monitoring | Microsoft.SQLServer.2008.Mirroring.Monitoring.mp |
| **SQL Server 2012** | |
| Library | Microsoft.SQLServer.Library.mp |
| Generic | Microsoft.SQLServer.Generic.Presentation.mp |
| Generic | Microsoft.SQLServer.Generic.Dashboards.mp |
| Discovery | Microsoft.SQLServer.2012.Discovery.mp |
| Monitoring | Microsoft.SQLServer.2012.Monitoring.mp |
| Library | Microsoft.SQLServer.Visualization.Library.mpb |
| Presentation | Microsoft.SQLServer.2012.Presentation.mp |
| **SQL Server 2012 Mirroring** | |
| Library | Microsoft.SQLServer.Library.mp |
| Generic | Microsoft.SQLServer.Generic.Presentation.mp |
| Generic | Microsoft.SQLServer.Generic.Dashboards.mp |
| Discovery | Microsoft.SQLServer.2012.Discovery.mp |
| Discovery | Microsoft.SQLServer.2012.Mirroring.Discovery.mp |
| Monitoring | Microsoft.SQLServer.2012.Mirroring.Monitoring.mp |
| **SQL Server 2012 Always On** | |
| Library | Microsoft.SQLServer.Library.mp |
| Generic | Microsoft.SQLServer.Generic.Presentation.mp |
| Generic | Microsoft.SQLServer.Generic.Dashboards.mp |
| Discovery | Microsoft.SQLServer.2012.Discovery.mp |
| Monitoring | Microsoft.SQLServer.2012.Monitoring.mp |
| Always On Discovery | Microsoft.SQLServer.2012.AlwaysOn.Discovery.mp |
| Always On Monitoring | Microsoft.SQLServer.2012.AlwaysOn.Monitoring.mp |

### Avoid Monitoring Noise

|  |
| --- |
| 1. If you are upgrading from a previous version, export and save your current management pack with any customizations so that you can roll back the installation if needed.  2. Import the library file.  3. Define Run-As accounts.  4. Import the discovery file.  5. Make sure that the required objects are discovered. In case of security alerts, adjust Run As accounts. If the list of discovered objects is not as expected, enable or disable discovery for management groups.  6. Import the monitoring file.  7. Customize the management pack. |

Create a New Management Pack for Customizations

SQL Server Management Pack 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:

 It simplifies the process of exporting customizations created in your test and pre-production environments to your production environment. For example, instead of exporting the default management pack that contains customizations from multiple management packs, you can export just the management pack that contains customizations of a single management pack.

 It allows you to delete the original management pack without first needing to delete the default management pack. A management pack that contains customizations is dependent on the original management pack. This dependency requires you to delete the management pack with customizations before you can delete the original management pack. If all of your customizations are saved to the default management pack, you must delete the default management pack before you can delete an original management pack.

 It is easier to track and update customizations to individual 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 Manager console, and then click Administration button.  2. Right-click Management Packs, and then click Create New Management Pack.  3. Enter a name (for example, ADMP Customizations), and then click Next.  4. Click Create. |

### Customize SQL Server Management Pack

The following recommendations may help reduce unnecessary alerts.

 If you are monitoring instances of SQL Server 2008 that do not have the SQL Server Full Text Filter Daemon Launcher service installed, disable the monitor SQL Server Full Text Search Service Monitor.

 Some monitors in this management pack check the state of services. These monitors have “Alert only if service startup type is automatic” parameter that is set to True by default, which means that it checks services that are set to start automatically. On servers in a cluster, the startup type for the services is set to manual. If you are monitoring a SQL Server cluster, change “Alert only if service startup type is automatic” parameter to false for the following monitors:

 SQL Server Windows Service (for SQL DB Engine)

 SQL Server Reporting Services Windows Service

 SQL Server Analysis Services Windows Service

 SQL Server Integration Services Windows Service

 SQL Server Full Text Search Service Monitor

 SQL Server Agent Windows Service

Optional Configuration

After you import SQL Server Management Pack, the navigation pane of the Monitoring pane displays the object types that are discovered automatically. For more information about object types, see [Objects the Management Pack Discovers](#z5383f9757c504bdcaa80be4e1e40c105) section. You can modify the default discovery configuration of objects discovered by SQL Server Management Pack. You should use the overrides feature of the Operations Manager to change the configuration settings.

For an object type that is not automatically discovered, you can enable the setting for automatic discovery in the Authoring pane in the Operations Manager console.

### Use an Override to Change the Setting for Automatic Discovery

|  |
| --- |
| 1. In the Authoring pane, expand Management Pack Objects, and then click Object Discoveries.  2. On the Operations Manager toolbar, click Scope, and filter the objects that appear in the details pane to include SQL Server objects only.  3. In the details pane, click the object type for which you want to change the setting.  4. On the Operations Manager toolbar, click Overrides, click Override the Object Discovery, and then click either For all objects of type: <name of object type>, For a group, For a specific object of type: <name of object type>, or For all objects of another type.  5. In the Override Properties dialog box, click the Override box for the Enabled parameter you want to change.  6. Under Management Pack, click New to create an unsealed version of the Management Pack, and then click OK. |

After you change the override setting, the object type is automatically discovered and appears in the Monitoring pane under Microsoft SQL Server.

For more information about setting overrides, see [Overrides in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=86870) article (http://go.microsoft.com/fwlink/?LinkId=86870).

The following monitoring scenarios might require manual configuration. For more specific information about these requirements, see the [Key Monitoring Scenarios](#zc66634b36ffd4308a262c6bbaac98873) section.

 Database configuration monitoring

 DB File monitoring

 DB Filegroup monitoring

 Excluding databases from monitoring

 Excluding DB engine instances from monitoring

 Publication component monitoring

 Service pack compliance

 Subscription component monitoring

Security Considerations

As of the October 2009 release of SQL Server Management Pack package, agentless monitoring is no longer supported. This change was made to allow full support of monitoring for clustered resources.

You may need to customize your management pack. Certain accounts cannot be run in a low-privilege environment or must have minimum permissions.

The following topics are covered in this section:

 [Run As Profiles](#z99578b9014ab40c19e10432004a8b5bc)

* [Low-Privilege Environments](#LowPrivEnv)

 [Groups](#z2991a3e2ee634cc9a6afd4227f365120)

* [TLS 1.2 Protection](#TLS)

Run As Profiles

When the SQL Server Core Library Management Pack is imported for the first time, it creates three new Run As profiles:

* SQL Server Default Action Account
* SQL Server Discovery Account

This profile is associated with all discoveries.

* SQL Server Monitoring Account

This profile is associated with all monitors and tasks.

* Always On Discovery Account

This account is used for script-based discovery of Always On objects.

* Always On Monitoring Account

This account is used for script based monitoring of Always On objects.

By default, all discoveries, monitors, and tasks defined in SQL Server Management Packs use the 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 SQL Server Run As profiles, which do have access.

For Always On monitoring, the Run As configuration is a subset of required configuration for SQL Server monitoring. Therefore, it is not required to explicitly configure Run As profiles for Always On, just perform the following steps:

* Map Always On Discovery Account profile to the same Action Account you use for SQL Server Discovery Account profile;
* Map Always On Monitoring Account profile to the same Action Account you use for SQL Server Monitoring Account profile.

#### 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:
2. To monitor SQL Server Always On Availability Groups under Local System account, each node's Local System account must also have sufficient permissions on other server nodes of the Availability Group. In case it is approved by your company security policy, you can grant such permissions by adding each computer account to the local Administrators group of each participating node. While configuring SQL Server Always On Availability Groups for monitoring, despite granting Local Administrator rights to each computer account, make sure those accounts have permissions described in [Configure Permissions for Always On Discovery and Monitoring](#_Steps_to_configure) section. In case your company security policy does not allow adding computer accounts to Local Administrators group of other computers, you should create a domain account for monitoring, and either add it to the local Administrators group on each node (see configuration scenario #2 below) or grant it with the minimal required permission set as described in [Set up a Low-Privilege Environment](#LowPrivConfig) section.
3. 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 Configuration](#_To_configure_a) section.
4. 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:
5. Create a new Domain User account and add this account to Local Administrators group on each monitored server.
6. Grant SA rights to this account in SQL Server.
7. Create a new Action account in SCOM and map it to the Domain User account created above.
8. Map the new Action account to all SQL Server MP Run As Profiles: SQL Server Default Action Account, SQL Server Discovery Account, SQL Server Monitoring Account, Always On Discovery Account, Always On Monitoring Account.
9. While configuring SQL Server Always On Availability Groups for monitoring, despite granting Local Administrator rights to the new Action account, make sure this account has permissions described in [Configure Permissions for Always On Discovery and Monitoring](#_Steps_to_configure) section.
10. 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.
11. In case you need to grant the minimal required rights to SQL MP workflows, follow the instructions in [Set Up a Low-Privilege Environment](#LowPrivConfig) section.

Note

Monitoring clusters under Local System account is not a preferable option. It is recommended to use Domain User account granted with necessary set of rights for monitoring cluster configurations.

#### Configure Permissions for Always On Discovery and Monitoring



Please note that regardless of the used account (Local System or Domain User account) and the method of rights granting, you have to make sure that the account has the permissions listed below. The process of obtaining permissions is described below as a case when Local System account is used for monitoring.

**Example:** You have 3 replicas in your Availability Group, which are hosted on the following computers: comp1, comp2 and comp3. At that, comp1 hosts the primary replica. In this case, you should configure security settings for comp1 on comp2 and comp3 computers.

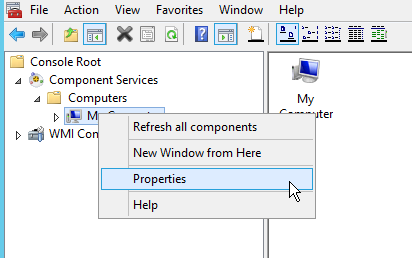
**Note:** If comp2 would host primary replica (after failover), other computers should also have configured WMI security for this computer. In general, you have to make sure that Local System account of each node, which can act as Primary one, have WMI permissions for the other nodes of the current Availability Group. The same is true for the Domain Action Account used for monitoring.

Therefore, below are the steps to configure security for configurations with Local System account (please note that in the provided instruction it is considered that SQLAON-020 computer hosts the primary replica).

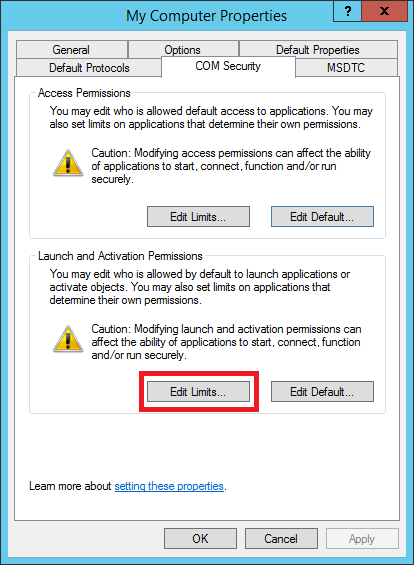
1. Launch mmc.exe and add two Snap-Ins:

* **Component Services**
* **WMI Control**  (for local computer)

1. Expand **Component Services**, right-click **My Computer** and click **Properties**; the corresponding dialog menu will be displayed.

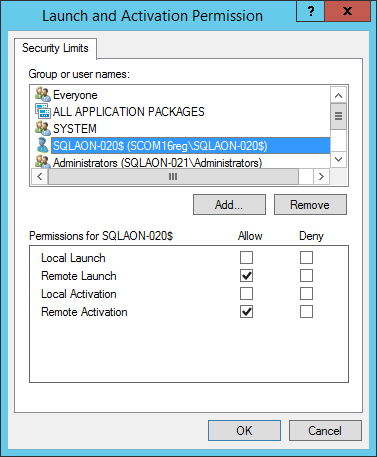


1. In this dialog menu, go to **Security** tab.
2. Click **Edit Limits** button in **Launch and Activation Permissions** section; the corresponding dialog menu will be displayed.



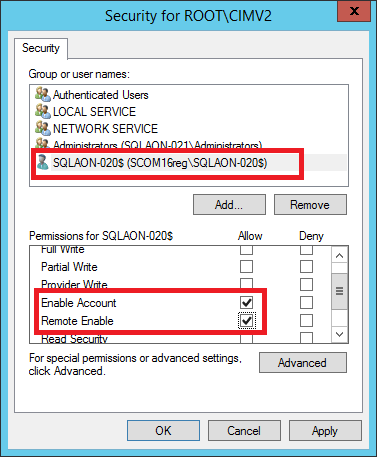
1. In this dialog menu, set the following permissions for the remote machine’s account:

* **Remote Launch**
* **Remote Activation**



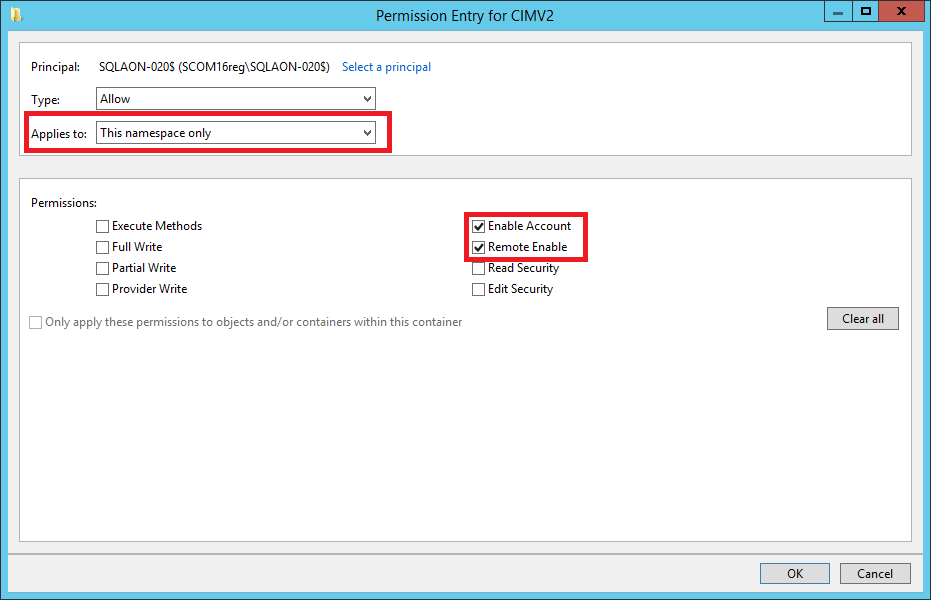
1. Go to **WMI Control** snap-In and call its properties; the corresponding dialog menu will be displayed.
2. In this dialog menu, go to **Security** tab, select **Root\CIMV2** namespace and click **Security** button.
3. Add the following permissions for the target computer:

* **Enable Account**
* **Remote Enable**



1. Click **Advanced** button; the corresponding dialog menu will be displayed.
2. In this dialog menu, select the target account and click **Edit** button.
3. In the following dialog menu, make sure that **Applies to** parameter is set to **This namespace only** value, and the following permissions are set:

* **Enable Account**
* **Remote Enable**



Steps 1-11 should be performed on each replica participating in the target Availability Group.

Low-Privilege Environments

This section describes how to configure SQL Server Management Pack for low-privilege access (discovery, monitoring, and action) for both monitored SQL Server instances and the host operating system. When you follow the instructions in this section, the health service hosting SQL Server Management Pack executes all the workflows with low-privilege access to the target SQL Server instances and to the operating system where those instances are running.

For more information, see the [Run As Profiles](#z99578b9014ab40c19e10432004a8b5bc) section.

Note

Mirroring Monitoring is supported under low-privilege configuration. However, Mirroring Discovery works under High-Privilege only as soon as Discovery Script contains part, which requires admin rights on Mirroring Instance.

#### Set Up a Low-Privilege Environment

Note

The following procedure describes the steps needed to configure low-privilege Discovery, Monitoring, and Action for SQL Server Management Pack. This low-privilege configuration is only supported for non-clustered SQL Server environments.

Clustered SQL Server instance monitoring under the low-privilege is supported for SQL Server 2012 and newer versions only.

##### Configure a Low-Privilege Environment in Active Directory

|  |
| --- |
| 1. In Active Directory, create three domain users that will be commonly used for low-privilege access to all target SQL Server instances:    1. SQLDefaultAction    2. SQLDiscovery    3. SQLMonitor 2. Create a domain group named SQLMPLowPriv and add the following domain users:    1. SQLDiscovery    2. SQLMonitor   Grant special permission: Read-only Domain Controllers - “Read Permission” to **SQLMPLowPriv**. |

##### Configure a Low-Privilege Environment On the Agent Machine

|  |
| --- |
| 1. On the agent machine, add the SQLDefaultAction and SQLMonitor domain users to the “Performance Monitor Users” local group. 2. Add the SQLDefaultAction and SQLMonitor domain users to “EventLogReaders” local group. 3. Add the SQLDefaultAction domain user and SQLMPLowPriv domain group as members to the local **Users** group. 4. Configure the “Allow log on locally” local security policy setting to allow the SQLDefaultAction domain user and SQLMPLowPriv domain group users to log on locally. 5. Grant Read permission on **HKLM:\Software\Microsoft\Microsoft SQL Server** registry path for **SQLDefaultAction** and **SQLMPLowPriv**. 6. Grant “Execute Methods”, “Enable Account”, “Remote Enable”, “Read Security” permissions for **root**, **root\cimv2**, **root\default**, **root\Microsoft\SqlServer\ComputerManagement11** WMI namespaces to **SQLDefaultAction** and **SQLMPLowPriv**. 7. Grant Read permission on **HKLM:\Software\Microsoft\Microsoft SQL Server\*[InstanceID]*\MSSQLServer\Parameters** registry path for **SQLMPLowPriv** for each monitored instance.   Note  The monitoring account user must have the following permissions to 'C:\Windows\Temp' folder:   * + Modify   + Read & Execute   + List Folder contents   + Read   + Write |

##### Configure a Low-Privilege Environment on the Agent Machine in Cluster



1. For each node in a cluster, execute steps outlined in section [To configure a low-privilege environment on the agent machine](#Lowprivonagent).
2. Grant “Remote Launch” and “Remote Activation” DCOM permissions to the **SQLMPLowPriv, SQLDefaultAction** using DCOMCNFG. Please note that both defaults and limits should be adjusted.
3. Allow Windows Remote Management through the Windows Firewall.
4. Grant “Read” and “Full Control” access for the cluster to the **SQLMPLowPriv** using Failover Cluster Manager.
5. Grant “Execute Methods”, “Enable Account”, “Remote Enable”, “Read Security” permissions to **SQLTaskAction** and **SQLMPLowPriv** for this WMI namespace: **root\MSCluster**.

##### Configure a Low-Privilege Environment on the Server, Which Hosts an SMB Share Used by DQL Server 2012 Database Engine

1. Grant share permissions by opening share properties dialog for the share, which hosts SQL Server data files or SQL Server transaction log files.
2. Grant Read permissions to SQLMPLowPriv.
3. Grant NTFS permissions by opening the properties dialog for the shared folder and navigate to the “Security” tab.
4. Grant Read permissions to SQLMPLowPriv.

##### Configure Instances for Monitoring in SQL Server Management Studio

|  |
| --- |
| 1. In SQL Server Management Studio, create a login for “SQLMPLowPriv” on all SQL Server instances to be monitored on the agent machine, and grant the following permissions to each “SQLMPLowPriv” login:  a. VIEW ANY DEFINITION  b. VIEW SERVER STATE  c. VIEW ANY DATABASE  2. Create a SQLMPLowPriv user that maps to the SQLMPLowPriv login in each existing user database, master, msdb, and model. By putting user in the model database, it will automatically create a SQLMPLowPriv user in each future user-created database. See the code sample below. You will need to manually provision the user for attached and restored databases.  3. Add the SQLMPLowPriv user on msdb to the **SQLAgentReaderRole** database role.  4. Add the **SQLMPLowPriv** user on msdb to the **PolicyAdministratorRole**database role.  5. For configuring Mirroring under low-privilege, need to execute next code for each instance in Mirroring:  *grant select on sys.database\_mirroring\_witnesses to [yourdomain\SQLMPLowPriv]*  *go* |
|  |

##### Configure Instances for Default Action in SQL Server Management Studio

|  |
| --- |
| 1. In SQL Server Management Studio, create a login for SQLDefaultAction on all SQL Server instances to be monitored on the agent machine, and grant the following permissions to each SQLDefaultAction login:  a. VIEW ANY DEFINITION  b. VIEW SERVER STATE  c. VIEW ANY DATABASE  d. SELECT ON SYS.DATABASE\_MIRRORING\_WITNESSES  2. Create a SQLDefaultAction user that maps to the SQLDefaultAction login in each existing user database, master, msdb, and model. By putting the user in to the model database, you automatically create a SQLDefaultAction user in each future user-created database. See code sample below. You need to manually provision the user for attached and restored databases.  3. Add a SQLDefaultAction user on msdb to the **SQLAgentReaderRole** database role.  4. Add the SQLDefaultAction user on msdb to the **PolicyAdministratorRole database** role. |

Some optional System Center Operations Manager tasks require a higher privilege on the agent machine and the databases where the tasks need to be executed. You should only execute the following provisioning steps on the agent machine or databases where you want the System Center Operations Manager console operator to take remedial actions.

##### Enable Execution Of System Center Operations Manager Tasks for a Database Object

|  |
| --- |
| 1. On the agent machine, grant the SQLDefaultAction user permission to start or stop a NT service if the task is about starting or stopping a NT service such as DB Engine Service, SQL Server Agent service, SQL FullText Search Service, Analysis Services, Integration Services, and Reporting Services. This involves setting a service’s security descriptor. For more information, see [Sc sdset](http://go.microsoft.com/fwlink/?LinkId=193876).  The basic process is to read the existing privileges for a given service (using sc sdshow) and then grant additional privileges to the SQLDefaultAction user for that server.  For example, suppose the results of the SC sdshow command for SQL Server service are as follows:  D:(A;;CCLCSWRPWPDTLOCRRC;;;SY)(A;;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;BA)(A;;CCLCSWLOCRRC;;;IU)(A;;CCLCSWLOCRRC;;;SU)S:(AU;FA;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;WD)  In that case, the following command line confers sufficient access to SQLDefaultAction for starting and stopping the SQL Server service (with appropriate substitutions for italicized values and keeping everything on a single line of text):  sc sdset SQL Server service name D:(A;;GRRPWP;;;SID for SQLDefaultAction)(A;;CCLCSWRPWPDTLOCRRC;;;SY)(A;;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;BA)(A;;CCLCSWLOCRRC;;;IU)(A;;CCLCSWLOCRRC;;;SU)S:(AU;FA;CCDCLCSWRPWPDTLOCRSDRCWDWO;;;WD)  2. In SQL Server Management Studio, add “SQLDefaultAction” to db\_owner database role for each database to check:  a. “Check Catalog (DBCC)”  b. “Check Database (DBCC)”  c. “Check Disk (DBCC)” (invokes DBCC CHECKALLOC)  3. Grant the ALTER privilege to SQLDefaultAction for each database on which to set state:  a. “Set Database Offline”  b. “Set Database Emergency State”  4. Grant the ALTER ANY DATABASE privilege to SQLDefaultAction login to run the task of “Set Database Online”. |

##### Configure System Center Operations Manager

|  |
| --- |
| 1. Import SQL Server Management Pack if it has not been imported.  2. Create a SQLDefaultAction, SQLDiscovery and SQLMonitor Run As accounts with “Windows” account type. For more information about how to create a Run As account, see [How to Create a Run As Account in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=193877) or [How to Create Run As Account in Operations Manager 2012](http://go.microsoft.com/fwlink/?LinkId=717832). For more information about various Run As Account types, see [Run As Accounts and Run As Profiles in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=193879) or [Managing Run As Accounts and Profiles in Operations Manager 2012](http://go.microsoft.com/fwlink/?LinkId=717833).  3. On the System Center Operations Manager console, configure the Run As profiles for SQL Server Management Pack as following:  a. Set the “SQL Server Default Action Account” Run As profile to use the SQLDefaultAction Run As account.  Note: When you make SQLDefaultAction the “SQL Server Default Action Account” at the management server, you need to grant access to the Operations Manager database.  i. Grant CONNECT to SQLDefaultAction for the Operations Manager database.  ii. Add “SQLDefaultAction” to the dbmodule\_users database role.  b. Set the “SQL Server Discovery Account” Run As profile to use the SQLDiscovery Run As account.  c. Set the “SQL Server Monitoring Account” Run As profile to use the SQLMonitor Run As account. |

The following code example shows provisioning the SQLMPLowPriv login on an instance.

use master

go

create login [yourdomain\SQLMPLowPriv] from windows

go

grant view server state to [yourdomain\SQLMPLowPriv]

grant view any definition to [yourdomain\SQLMPLowPriv]

grant view any database to [yourdomain\SQLMPLowPriv]

grant select on sys.database\_mirroring\_witnesses to [yourdomain\SQLMPLowPriv]

go

The following code example shows how to generate a Transact-SQL provisioning script. The generated script provisions the SQLMPLowPriv user in current user databases and the model database (thereby automating the provisioning in future databases).

Warning

You need to output the results of this query in text format.

SELECT 'use ' + name + ' ;'

+ char(13) + char(10)

+ 'create user [yourdomain\SQLMPLowPriv] FROM login [yourdomain\SQLMPLowPriv];'

+ char(13) + char(10) + 'go' + char(13) + char(10)

FROM sys.databases WHERE database\_id = 1 OR database\_id >= 3

UNION

SELECT 'use msdb; exec sp\_addrolemember @rolename=''SQLAgentReaderRole'', @membername=''yourdomain\SQLMPLowPriv'''

+ char(13) + char(10) + 'go' + char(13) + char(10)

UNION

SELECT 'use msdb; exec sp\_addrolemember @rolename=''PolicyAdministratorRole'', @membername=''yourdomain\SQLMPLowPriv'''

+ char(13) + char(10) + 'go' + char(13) + char(10)

Groups

The following groups are added when you import SQL Server Management Pack:

 SQL 2008 Computers

 SQL 2008 DB Engine Group

 SQL 2008 Replication Computers

 SQL 2008 Mirroring Group

 SQL 2008 R2 Computers

 SQL 2008 R2 DB Engine Group

 SQL 2008 R2 Replication Computers

 SQL 2012 Mirroring Group

 SQL 2012 Computers

 SQL 2012 DB Engine Group

 SQL Computers

 SQL Instances

TLS 1.2 Protection

Operating protection of connections in SQL Server is provided by means of TLS protocol. In order to have the ability to use TLS 1.2 protocol, your environment should meet the following prerequisites:

1. SQL Server should be updated to version that supports TLS 1.2.
2. The following SQL Server drivers should be updated to version that supports TLS 1.2:

* SQL Server Native Client <version>
* ODBC Driver 11 for Microsoft SQL Server

1. Make sure that your environment meets the prerequisites provided in the table below:

|  |  |  |  |
| --- | --- | --- | --- |
| **OS Version** | **SCOM Version** | **.NET Version** | **PowerShell version** |
| Windows 2012 and above | Not less than minimal supported version\*\* | From 2.0 to 4.0 with TLS 1.2 update\* and from 4.0 to 4.6 with TLS 1.2 update\* | 3.0+ |
| Windows 2012 and above | Not less than minimal supported version\*\* | From 2.0 to 4.0 with TLS 1.2 update\* and 4.6+ | 3.0+ |
| Windows 2008 R2 and below | SCOM 2012 SP1 UR10 +  SCOM2012 R2 UR7 + | From 2.0 to 4.0 with TLS 1.2 update\* and 4.6+ | 2.0+ |
| Windows 2008 R2 and below | SCOM 2012 SP1 UR10 +  SCOM 2012 R2 UR7 + | From 2.0 to 4.0 with TLS 1.2 update\* and from 4.0 to 4.6 with TLS 1.2 update\* | 2.0+ |
| Windows 2008 R2 and below | From minimal supported version\*\* to SCOM 2012 SP1 UR9 or to SCOM 2012 R2 UR6 | From 2.0 to 4.0 with TLS1.2 update\* | 2.0 |

\* .NET Framework TLS 1.2 updates can be downloaded from [TLS 1.2 Support for Microsoft SQL Server](https://support.microsoft.com/kb/3135244) page (**Client component downloads** section).

\*\* Minimal supported SCOM versions are stated in Supported Configurations section.

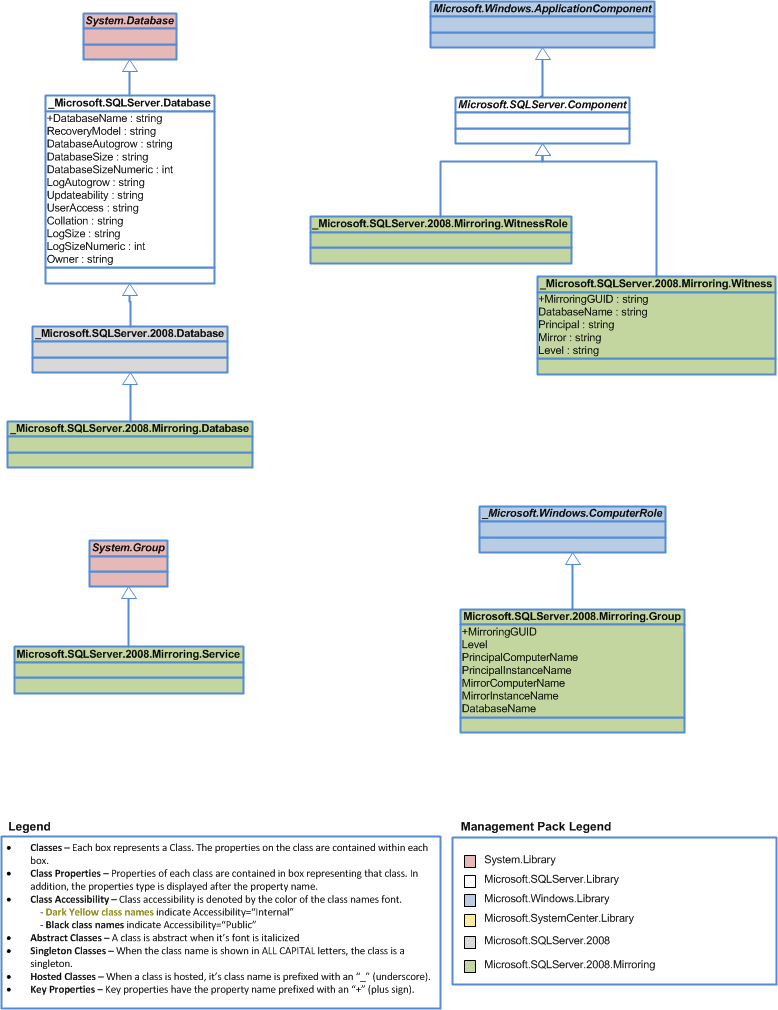
# Understanding of SQL Server 2008 and SQL Server 2012 Mirroring Management Packs

This section contains the following topics:

* [Inheritance Class Diagram](#_Inheritance_Class_Diagram)
* [Relationship Class Diagram](#_Relationship_Class_Diagram)
* [Objects the Management Pack Discovers](#MirroringObjectsDiscovered)
* [How Health Rolls Up](#MirroringHealthRollup)
* [Key Monitoring Scenarios](#MirroringMonitoringScenarios)
* [Viewing Information in the Operations Manager Console](#MirroringViews)

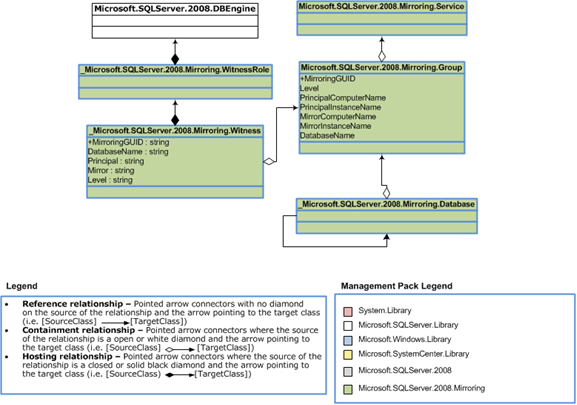
## Inheritance Class Diagram

SQL Server 2008 Mirroring - inheritance class diagram



## Relationship Class Diagram

SQL Server 2008 Mirroring - relationship class diagram



Note

SQL Server 2012 Mirroring MP uses logically the same class structure, the only difference is naming since ‘2008’ was renamed to ‘2012’.

## Objects the Management Packs Discover

You can use the SQL Server 2008 Mirroring MP and SQL Server 2012 Mirroring MP to monitor components of SQL Server 2008, SQL Server 2008 R2 and SQL Server 2012 Database Mirroring. You can use the Authoring pane of the Operations Manager console to enable discovery of components that are not automatically discovered. For more information about enabling object discovery, see [Object Discoveries in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=108505) artcle in the Operations Manager Help.

Note

You can use the same procedure to override the settings for discovery of any object.

The MPs discover the object types described in the following table. Not all of the objects are automatically discovered. Use overrides to discover those that are not discovered automatically.

| **Category** | **Object type** | **Discovered Automatically** |
| --- | --- | --- |
| SQL Server Mirroring Component | SQL Server 2008 Mirroring Database | Yes |
| SQL Server Mirroring Component | SQL Server 2008 Mirroring Witness | Yes |
| SQL Server Mirroring Component | SQL Server 2008 Witness Role | Yes |
| SQL Server Mirroring Component | SQL Server 2008 Mirroring Service | Yes |
| SQL Server Mirroring Component | SQL Server 2008 Mirroring Group | Yes |

How Health Rolls Up

The SQL Server 2008/2012 Mirroring Management Packs use layered structure of health model. SQL Server database and other related objects of SQL Server MP affect the health of the Mirroring functionality.

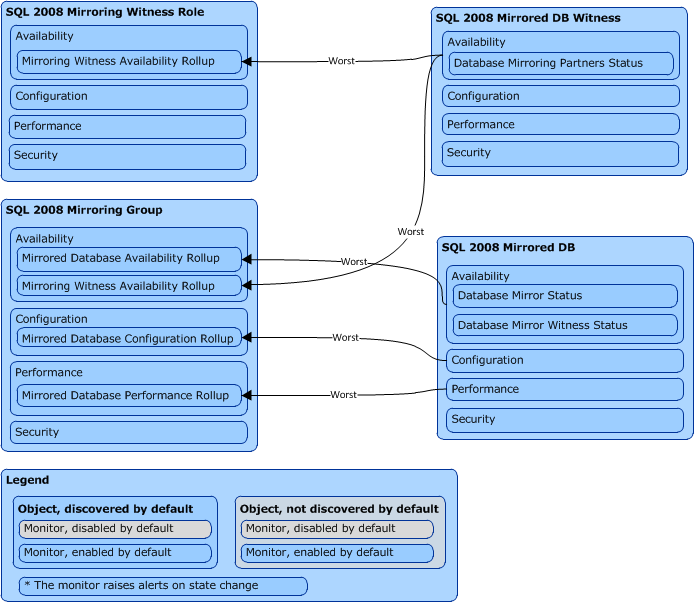
Health Roll Up Diagram

Note

You can create dependency monitors to customize health rollup. To view a health rollup diagram for your configuration, select an object and click Health Explorer in the Actions pane.

The following illustration shows the objects that are enabled and disabled.

Illustration of enabled objects



Key Monitoring Scenarios

The SQL Server Mirroring Management Packs for the Operations Manager include a number of key monitoring scenarios that can be configured as follows.

Note

The list is not intended to be a complete manifest of the management pack functionality.

### Discovery of Mirroring Components

The following objects are discovered for each of SQL Server instance:

* Databases enabled for Mirroring with all their properties (required for mirroring monitoring)
* Mirroring group contains the collection of databases enabled for mirroring and properties required to identify principal and mirror roles
* Witness Role and Witness
* Mirroring Session direction required to show mirroring dataflow on the diagram view

You can apply overrides to the following discoveries to specify an “Exclude List” (in comma-delimited format) of the database names that the discovery should overlook:

* SQL 2008/2012 Mirrored DB Discovery Provider

The almost all requirements to prevent performance degradation should be kept as well as for objects in SQL Server Management Pack.

### Database Mirror Synchronization State Monitoring

The monitor checks the status of the database mirror reported by SQL Server. It checks availability of mirror database as well as its SYNCHRONIZED state. This monitor also checks the following warning states:

SYNCHRONIZING - The contents of the mirror database are lagging behind the contents of the principal database. The principal server is sending log records to the mirror server, which is applying the changes to the mirror database to roll it forward. At the start of a database mirroring session, the database is in the SYNCHRONIZING state. The principal server is serving the database, and the mirror is trying to catch up.

SUSPENDED - The mirror copy of the database is not available. The principal database is running without sending any logs to the mirror server, a condition known as running exposed. This is the state after a failover. A session can also become SUSPENDED because of redo errors or if the administrator pauses the session. SUSPENDED is a persistent state that survives partner shutdowns and startups.

PENDING\_FAILOVER - This state is found only on the principal server after a failover has begun, but the server has not transitioned into the mirror role. When the failover is initiated, the principal database goes into the PENDING\_FAILOVER state, quickly terminates any user connections, and takes over the mirror role soon thereafter.

### Mirroring Witness State Monitoring

This monitor checks the status of the database mirroring witness reported by SQL Server. Monitor checks that connection between Mirroring Partner and Witness server is available in case if Mirroring witness is presented in Mirroring configuration.

### Mirroring Partner State Monitoring

This monitor checks the status of the database mirroring session reported by SQL Server. An unhealthy state indicates that the SQL Server database mirroring session is not in operational state.

## Viewing Information in the Operations Manager Console

You can see a high-level view of object types in your SQL Server deployment.

A view can contain a lengthy list of objects. 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 the How to Manage Monitoring Data Using Scope, Search, and Find topic in the Operations Manager Help.

These views are listed under **Mirroring** folder of the Microsoft SQL Server node in the Monitoring pane of the Operations Manager console. Details for most views are listed in the following table.

 Active Alerts, which displays an aggregation of all alerts that are not closed.

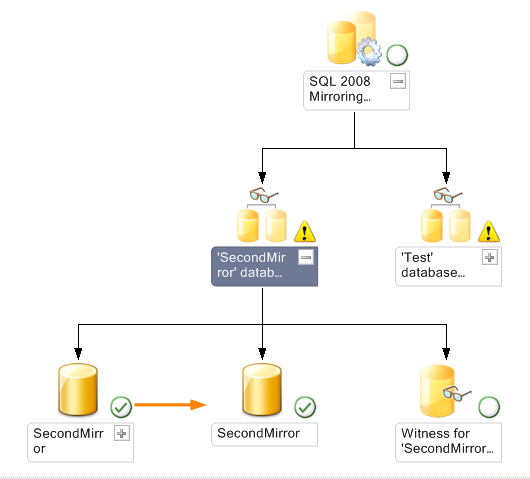
 Mirroring Diagram, which shows diagram of mirroring components and their relationships.

#### Mirroring State Views

| **View Name** | **Description** |
| --- | --- |
| Mirroring Groups | Displays all discovered Mirroring Groups with links to Mirrored Databases and Witness objects. |

#### Mirroring Diagram

Mirroring diagram show the main objects, which are participated in mirroring session: Mirroring database, Mirroring Group, Mirroring Service, Witness Role and Witness. In addition, beside general relationship between components like Hosting and Containment, the mirroring diagram shows additional reference type relationship, which indicates the direction of mirroring data flow. When failover happens, that reference will be changed considering new direction, but it can take some time. To reduce the refresh time, it is possible to configure an override for discovery of that type of relationship.



# Understanding of SQL Server 2012 Always On Management Pack

This section describes SQL Server 2012 Always On Management Pack

The scope of this management pack includes:

* Discovery of Always On objects (availability groups, availability replicas, and database replicas) on the SQL Server 2012 instances with enabled Always On.
* Monitoring of Always On objects’ health by collecting PBM (Policy Based Management) policies’ state via SQL Server PowerShell provider (part of the SQLPS module).
* Collecting of performance data for availability replicas and database replicas.
* Tasks for execution in SQL Server Management Studio and SQLPS console.

## Prerequisites

SQL Server 2012 Management Studio should be installed on the machine where the Operations Manager console is installed to provide the capability to invoke SQL PowerShell tasks from the Operations Manager console.

## Mandatory Configuration

 Import prerequisite Management Packs.

* Enable the Agent Proxy option on all agents that are installed on servers participating in an Always On session. For instructions, see the procedure that follows this list.

### Enable the Agent Proxy Option

|  |
| --- |
| 1. Open the Operations Manager 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. |

## Low-Privilege Configuration for Always On Monitoring

For details about the low-privilege configuration for Always On monitoring, see [Set Up A Low-Privilege Environment](#SettingupLPG) and [Run As Profiles](#RunAsprofiles) sections.

## Goals of SQL Server 2012 Always On Management Pack

The goal of SQL Server 2012 Management Pack is to provide discovery and monitoring for SQL Server 2012 Always On objects (availability groups, availability replicas, and database replicas) by reflecting the state of PBM policies. Also this management pack provides the capability to collect performance data for Always On objects and to invoke the SQL Server Management Studio and SQL PowerShell by calling console tasks

In this section:

* Monitoring Scenarios
* How Health Rolls Up

For details on the discoveries, rules, monitors, views, and reports contained in this management pack, see [Appendix: Always On Management Pack contents](#AlwaysOnAppendix)

### Key Monitoring Scenarios for Always On Monitoring

#### Discovery of Availability Groups, Availability Replicas and Database Replicas

The following objects are automatically discovered:

* Availability Group – which represents SMO Availability Group object and contains all required for identification and monitoring properties
* Availability Replica – which represents SMO Availability Replica object and contains all required for identification and monitoring properties
* Database Replica – which represents database level object of Always On and contains properties from SMO objects: Availability Database and Database Replica State
* Availability Group Health – which is hidden object used for rollup health from agents to availability group level

#### Availability Groups, Availability Replicas and Database Replicas Health Monitoring

This scenario collects health for all available Always On objects on the target SQL Server instance by using SQL Server PowerShell provider, which reads PBM policies state for each of the objects.

This management pack has two event rules for alerting when the following events appear in the Windows Application log:

* Event ID 1480: Database Replica role is changing
* Event ID 19406: Availability Replica role changed

Note that these events are disabled in SQL Server by default. To enable them, execute the next TSQL scripts:

* sp\_altermessage 1480, 'with\_log', 'true'
* sp\_altermessage 19406, 'with\_log', 'true'

#### Availability Groups, Availability Replicas and Database Replicas Performance Monitoring

This scenario checks performance counters for availability replicas and database replicas on target machine and target SQL instance

#### Monitoring of Custom User Policies

All Always On monitors reflect their state by reader state of system policies using API provided by PBM (policy-based management). Beside system policies, Always On management pack provides ability to monitor Custom User Policies defined by user.

Always On management pack also extends capabilities of CUP (custom user policy) monitoring from SQL Server Management Pack where only policies with Database as Facet are monitored. Always On MP supports monitoring of policies where the following objects are facets:

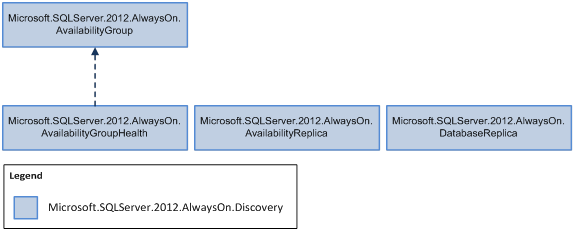
* Availability Group
* Availability Replica
* Database Replica

For each of possible facet there are two types of CUP monitors:

* Two state monitor with 'Warning' critical state used particularly for reflecting the state of Custom User Policies, which have *<object>* as Facet and one of the predefined warning categories as Policy Category.
* Two state monitor with 'Error' critical state used particularly for reflecting the state of Custom User Policies, which have *<object>* as Facet and one of the predefined error categories as Policy Category.

### How Health Rolls Up

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



### Security Configuration

| **Run As Profile Name** | **Associated Rules and Monitors** | **Notes** |
| --- | --- | --- |
| Microsoft.SQLServer.2012.AlwaysOn.DiscoveryAccount | * Microsoft.SQLServer.2012.AlwaysOn.GeneralAlwaysOnDiscovery * Microsoft.SQLServer.2012.AlwaysOn.GeneralUserPolicyDiscovery |  |
| Microsoft.SQLServer.2012.AlwaysOn.MonitoringAccount | * Microsoft.SQLServer.2012.AlwaysOn.ClusterStateMonitor * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityGroupOnline * Microsoft.SQLServer.2012.AlwaysOn.AutomaticFailoverReadiness * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityReplicasSynchronizing * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityReplicasSynchronizationState * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityReplicaRoleState * Microsoft.SQLServer.2012.AlwaysOn.AllAvailabilityReplicasAreConnected * Microsoft.SQLServer.2012.AlwaysOn.RoleOfAvailabilityReplicaIsHealthy * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityReplicaIsConnected * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityReplicaDataSynchronizationHealth * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityReplicaIsJoined * Microsoft.SQLServer.2012.AlwaysOn.DbrDataSynchronizationState * Microsoft.SQLServer.2012.AlwaysOn.DbrJoinState * Microsoft.SQLServer.2012.AlwaysOn.DbrSuspendState * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityGroupErrorPolicyStateMonitor * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityGroupWarningPolicyStateMonitor * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityReplicaErrorPolicyStateMonitor * Microsoft.SQLServer.2012.AlwaysOn.AvailabilityReplicaWarningPolicyStateMonitor * Microsoft.SQLServer.2012.AlwaysOn.DatabaseReplicaErrorPolicyStateMonitor * Microsoft.SQLServer.2012.AlwaysOn.DatabaseReplicaWarningPolicyStateMonitor |  |

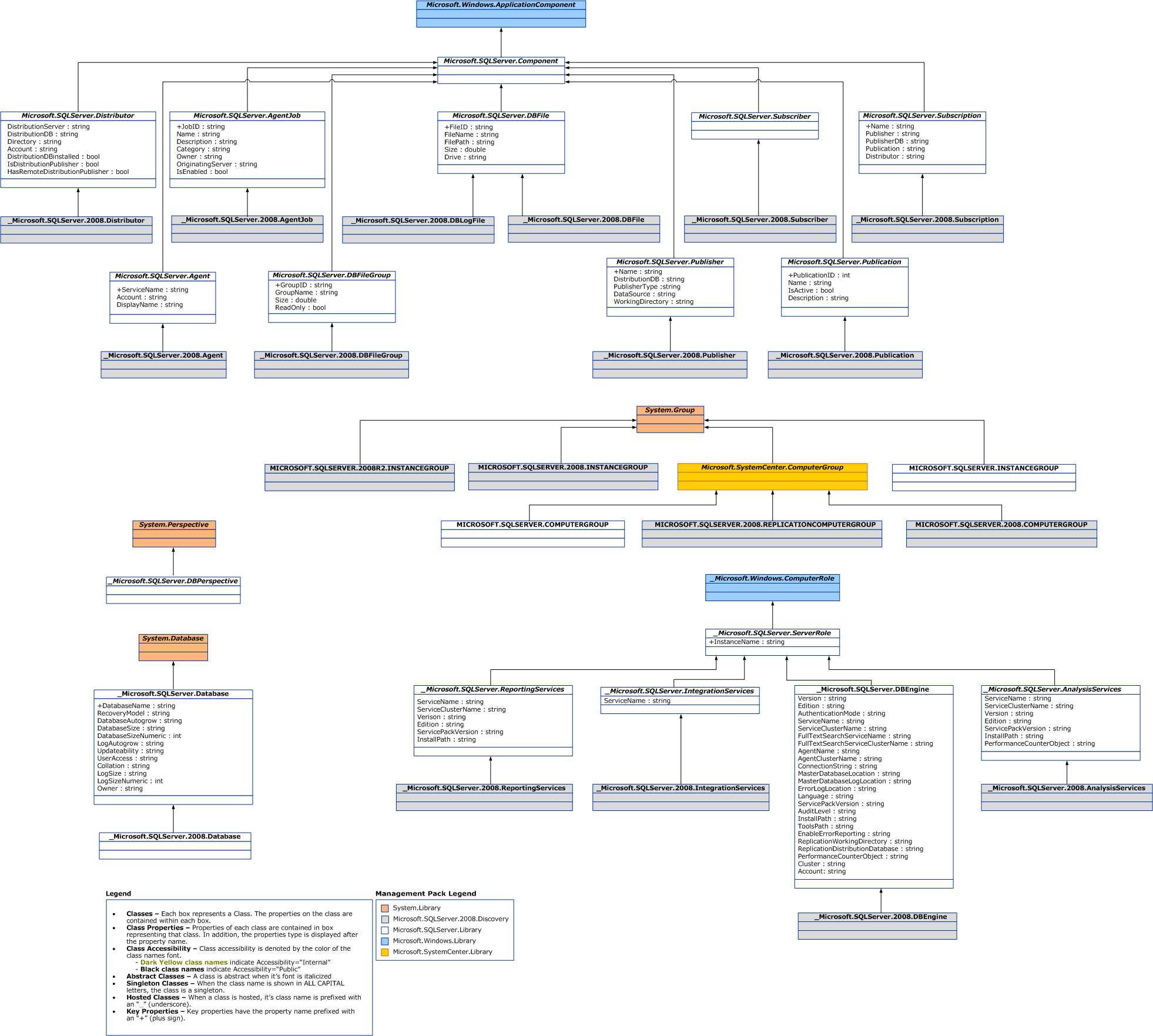
;

# Understanding of SQL Server Management Pack

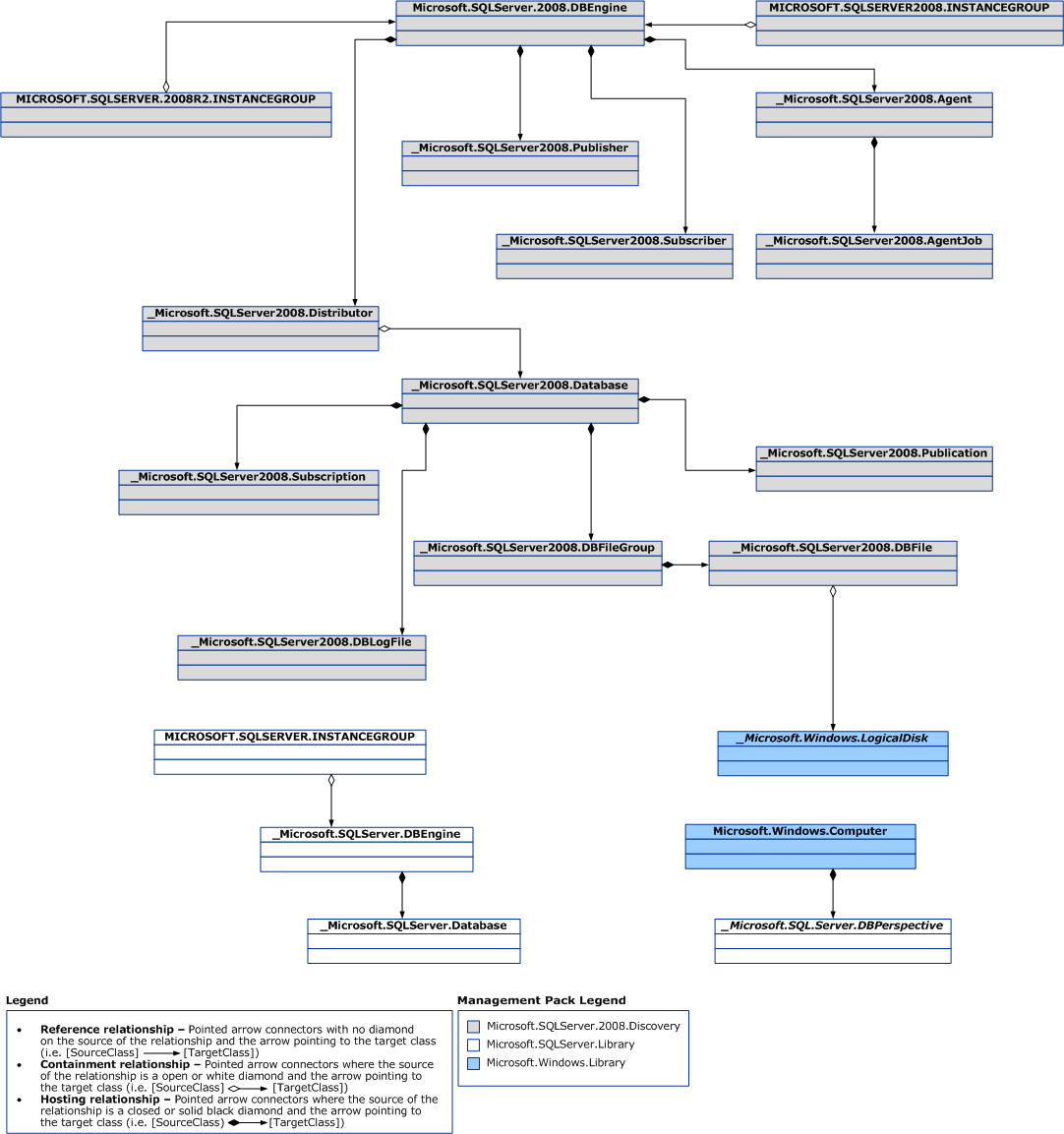
This section contains the following topics:

* [Inheritance Class Diagram](#_Inheritance_Class_Diagram_1)
* [Relationship Class Diagram](#_Relationship_Class_Diagram_1)
* [Objects the Management Pack Discovers](#z5383f9757c504bdcaa80be4e1e40c105)
* [How Health Rolls Up](#zedc37c76b5df48d190c55e6266a53c22)
* [Key Monitoring Scenarios](#zc66634b36ffd4308a262c6bbaac98873)
* [Viewing Information in the Operations Manager Console](#z86a5fb31462d499bb9d453d242491276)

## Inheritance Class Diagram



## Relationship Class Diagram



## Objects the Management Pack Discovers

You can use SQL Server Management Pack to monitor components of Microsoft Server 2008, SQL Server 2008 R2 and SQL Server 2012. You can use the Authoring pane of the Operations Manager console to enable discovery of components that are not automatically discovered. For more information about enabling object discovery, see [Object Discoveries in Operations Manager 2007](http://go.microsoft.com/fwlink/?LinkId=108505) article in the Operations Manager Help.

Note

You can use the same procedure to override the settings for discovery of any object.

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

| **Category** | **Object type** | **Discovered Automatically** |
| --- | --- | --- |
| SQL Server Roles | SQL Server 2008 R2 DB Engine | Yes |
| SQL Server Roles | SQL Server 2008 DB Engine | Yes |
| SQL Server Roles | SQL Server 2012 DB Engine | Yes |
| SQL Server Roles | SQL Server 2008 R2 Analysis Services | Yes |
| SQL Server Roles | SQL Server 2008 Analysis Services | Yes |
| SQL Server Roles | SQL Server 2012 Analysis Services | Yes |
| SQL Server Roles | SQL Server 2008 R2 Reporting Services | Yes |
| SQL Server Roles | SQL Server 2008 Reporting Services | Yes |
| SQL Server Roles | SQL Server 2012 Reporting Services | Yes |
| SQL Server Roles | SQL Server 2008 R2 Integration Services | Yes |
| SQL Server Roles | SQL Server 2008 Integration Services | Yes |
| SQL Server Roles | SQL Server 2012 Integration Services | Yes |
| Replication Components | SQL Server 2008 R2 Distributor | No |
| Replication Components | SQL Server 2008 Distributor | No |
| Replication Components | SQL Server 2012 Distributor | No |
| Replication Components | SQL Server 2008 R2 Publisher | No |
| Replication Components | SQL Server 2008 Publisher | No |
| Replication Components | SQL Server 2012 Publisher | No |
| Replication Components | SQL Server 2008 R2 Subscriber | No |
| Replication Components | SQL Server 2008 Subscriber | No |
| Replication Components | SQL Server 2012 Subscriber | No |
| Replication Components | SQL Server 2008 R2 Subscription | No |
| Replication Components | SQL Server 2008 Subscription | No |
| Replication Components | SQL Server 2012 Subscription | No |
| Other Object Types | SQL Server 2008 R2 DB | Yes |
| Other Object Types | SQL Server 2008 DB | Yes |
| Other Object Types | SQL Server 2012 DB | Yes |
| Other Object Types | SQL Server 2008 Mirroring DB | Yes |
| Other Object Types | SQL Server 2008 Mirroring Witness | Yes |
| Other Object Types | SQL Server 2008 R2 Agent | Yes |
| Other Object Types | SQL Server 2008 Agent | Yes |
| Other Object Types | SQL Server 2012 Agent | Yes |
| Other Object Types | SQL Server 2008 R2 Agent Job | No |
| Other Object Types | SQL Server 2008 Agent Job | No |
| Other Object Types | SQL Server 2012 Agent Job | No |
| Other Object Types | SQL Server 2008 R2 DB Filegroup | Yes |
| Other Object Types | SQL Server 2008 DB Filegroup | Yes |
| Other Object Types | SQL Server 2012 DB Filegroup | Yes |
| Other Object Types | SQL Server 2012 DB FILESTREAM Filegroup | Yes |
| Other Object Types | SQL Server 2008 R2 DB File | Yes |
| Other Object Types | SQL Server 2008 DB File | Yes |
| Other Object Types | SQL Server 2012 DB File | Yes |
| Other Object Types | SQL Server 2012 DB Policy | No |

### Objects Discovered

Use the following procedures as an example of enabling automatic discovery for SQL Server Agent Job.

#### Use an Override to Change the Setting for Automatic Discovery

|  |
| --- |
| 1. In the Authoring pane, expand Management Pack Objects, and then click Object Discoveries.  2. On the Operations Manager toolbar, click Scope, and then filter the objects that appear in the details pane to include only SQL Server objects.  3. In the Operations Manager toolbar, use the Scope button to filter the list of objects, and then click SQL Server Agent Job.  4. On the Operations Manager toolbar, click Overrides, click Override the Object Discovery, and then click For all objects of type: SQL Agent, For a group.  5. In the Override Properties dialog box, click the Override box for the Enabled parameter.  6. Under Management Pack, click New to create an unsealed version of the management pack, and then click OK, or select an unsealed management pack that you previously created in which to save this override. As a best practice, you should not save overrides to the Default Management Pack. |

After you change the override setting, the object type is automatically discovered and appears in the Monitoring pane under SQL Server.

### Discovery Fail Alert Reporting

The following table contains the list of discoveries, discovery errors of which will be collected by a special rule and displayed respectively.

|  |  |
| --- | --- |
| **Discovery Name** | **Error Event ID** |
| Discover Databases for a Database Engine | **7101** |
| Discover Filegroups |
| Discover Files |
| Discover SQL Server 2008 Agent Jobs | **7102** |
| Discover Databases for a Database Engine |
| Discover Filegroups |
| Discover Files |
| Discover Mirrored Databases for a Database Engine |
| Discover Mirrored Databases Witnesses |
| Discover SQL Server 2012 Agent Jobs | **7103** |
| Database Replicas Always On Discovery |
| General Always On Discovery |
| General Custom User Policy Discovery |
| Discover Databases for a Database Engine |
| SQL Server 2012 Database Custom User Policy Discovery |
| Discover Filegroups |
| Discover Files |
| Discover Mirrored Databases for a Database Engine |
| Discover Mirrored Databases Witnesses |

## How Health Rolls Up

SQL Server Management Pack categorizes the SQL Server components into a layered structure, where the health of one layer can depend on the health of the lower level.

### Top Level

The top level of this model contains Windows Server. If the SQL Server application is not healthy, Windows Server is not healthy.

### Second Level

|  |  |
| --- | --- |
| The second level contains these components: | ****** Database Engine  ****** Reporting Services (contains no lower-level components)  ****** Analysis Services (contains no lower-level components)  ****** Integration Services (contains no lower-level components)  Note  The health of each of these components directly affects the health of Windows Server. |

### Database Engine

|  |  |
| --- | --- |
| The Database Engine contains these lower-level components: | ****** Database (only the database has lower-level components)  ****** Distributor  ****** Publisher  ****** Subscriber |

### Database

The Database contains the following lower-level components.

|  |  |
| --- | --- |
| Database File | Affects the health of the file-group component, which in turn affects the health of the database. |
| SQL Server Agent | Contains one lower-level component, the SQL Server Agent Job. If the SQL Server Agent Job is not healthy, the SQL Server Agent will not be healthy, and therefore the Database Engine will not be healthy. |
| Publication | Rolls up to the database but has no lower-level components |
| Subscription | Rolls up to the database but has no lower-level components |
| Database Policy | Rolls up the state of Custom User Policies mapped to Database. |

### Health Roll Up Diagram

Note

You can create dependency monitors to customize health rollup. To view a health rollup diagram for your configuration, select an object and click Health Explorer in the Actions pane.

The following illustration shows the objects that are enabled and disabled.

Illustration of enabled objects



## Key Monitoring Scenarios

SQL Server Management Pack for Operations Manager includes a number of key monitoring scenarios that can be configured as follows.

Note

The list is not intended to be a complete manifest of the management pack functionality.

### Monitoring of Custom User Policies (CUP - PBM Policies Defined By User)

The new monitoring feature was added for SQL Server 2012 based on Policy Based Management capabilities. The state of user-defined policies can be monitored if the database is used as facet.

Note

If database is in Restoring state, the CUP targeted to that database will np be monitored.

There are two monitors, which reflects state of CUP:

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

### Separated Configuration for SQL Server 2008 and SQL Server 2008 R2

To configure different monitoring or discovery settings for SQL Server 2008 and SQL Server 2008 R2, apply overrides to the predefined computer groups:

 SQL Server 2008 DB Engine Group – includes instances of SQL Server 2008 and SQL Server 2008 SP1

 SQL Server 2008 R2 DB Engine Group – includes instances of SQL Server 2008 R2

### Data File and Log File Space Monitoring

Management pack rules collect total data log and log file free space. You can use reports for reviewing this information across multiple databases and over extended periods for such functions as problem management and capacity planning. Management pack monitors provide space monitoring on three levels: data files, filegroups and databases.

For more information, see the hierarchy of space monitors and overridable parameters in “Unit Monitors” and “Health Rolls Up Diagram” sections. The following performance counters are provided to support space monitoring:

1. Database Level

a. Collect Database Total Free Space (in MB and in %)

The amount of space left in database for all files in all filegroups for this database in megabytes or in percent. Also includes space left on media hosting files with auto grow enabled.

2. DB Filegroup Level

a. Collect DB Filegroup Free Space (in MB and in %)

The amount of space left in all files for this filegroup in megabytes or in percent. Also includes space left on media hosting files with auto grow enabled.

b. Collect DB Filegroup Allocated Space Left (in MB and in %)

The amount of space left in all files for this filegroup in megabytes or in percent. Does not include space left on media hosting files with auto grow enabled.

3. SQL DB File Level

a. Collect DB File Free Space (in MB and in %)

The amount of space left in a file in megabytes or in percent. Also includes space left on media hosting files with auto grow enabled.

b. Collect DB File Allocated Space Left (in MB and in %)

The amount of space left in a file in megabytes or in percent. Does not include space left on media hosting files with auto grow enabled.

4. SQL DB Log File Level

a. Collect DB Log File Free Space (in MB and in %)

The amount of space left in all log files for this database in megabytes or in percent. Also includes space left on media hosting files with auto grow enabled.

b. Collect DB Log File Allocated Space Left (in MB and in %)

The amount of space left in all log files for this database in megabytes or in percent. Does not include space left on media hosting files with auto grow enabled.

By default, space monitoring is enabled for the following levels:

 Database

 Filegroup

 File

If your environment is sensitive for any extra load, you may consider disabling monitoring on Filegroup and File level. To disable Filegroup level monitoring, you should disable the following rules:

 Collect DB Filegroup Allocated Space Left (%)

 Collect DB Filegroup Allocated Space Left (MB)

 Collect DB Filegroup Free Space (%)

 Collect DB Filegroup Free Space (MB)

To disable File level monitoring, you should disable the following rules and monitors:

Rules

 Collect DB File Allocated Space Left (%)

 Collect DB File Allocated Space Left (MB)

 Collect DB File Free Space (%)

 Collect DB File Free Space (MB)

 Collect DB Log File Allocated Space Left (%)

 Collect DB Log File Allocated Space Left (MB)

 Collect DB Log File Free Space (%)

 Collect DB Log File Free Space (MB)

Monitors

 DB File Space Monitor

 DB Log File Space Monitor

### Many Databases on the Same Drive

Default space monitoring settings are noisy in environments where data or log files for many databases are located on the same drive and have autogrow “On”. In such environments, an alert for each database is generated when the amount of free space on the hard drive reaches the threshold. To avoid noise, turn off the space monitors for data and log files, and use Base OS Management Pack to monitor space on the hard drive.

### Long-Running SQL Server Agent Jobs

By default, this scenario is fully enabled in the management packs on a per-SQL Server Agent basis. This means that for each monitoring SQL Server Agent, maximum job duration is what is compared against the thresholds, and alerts are raised if any single job runs too long.

In addition, more detailed monitoring, which is on a per-job basis is provided in the management packs but the discoveries for SQL Server Agent jobs are disabled by default. Enable the following object discoveries:

* SQL Server 2012: Discover SQL Server 2012 Agent Jobs
* SQL Server 2008: Discover SQL Server 2008 Agent Jobs

### Job Failure

To get alerts for failed jobs, enable the rule “A SQL job failed to complete successfully” and make sure that the option "Write to the Windows Application Event Log” “when the job fails” is selected for all jobs you want to monitor.

For more information, see [Job Properties / New Job (Notifications Page) in the MSDN Library](http://msdn.microsoft.com/library/ms189685.aspx)

### Blocking Sessions

A monitor periodically queries each database engine instance for a list of active sessions (SPIDs) and checks to see if any long-running blocking is occurring. 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 time-duration value that is used to determine whether blocking is long running. The default time-duration value is one minute.

### Discovery of SQL Server Database Engine Instances

The discovery of stand-alone and clustered instances of the SQL Server Database Engine role across all managed systems can be configured to exclude particular instances of the database engine.

You can apply overrides to the following discoveries to specify an “Exclude List” (in comma-delimited format) of the names of SQL Server Database Engine instances that the discovery should overlook:

* SQL Server 2012: Discover SQL Server 2012 Database Engines (Windows Server)
* SQL Server 2008: Discover SQL Server 2008 Database Engines (Windows Server)

### 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. Information about monitor-based functionality is provided in other areas of this table.

You can apply overrides to the following discoveries to specify an “Exclude List” (in comma-delimited format) of database names that the discovery should overlook.

 SQL Server 2012: Discover Databases for a Database Engine

 SQL Server 2008: Discover Databases for a Database Engine

### Restart of DB Engine

The availability of DBEngine is monitored by monitor “SQL Server Windows Service” for the object “SQL DB Engine”. This monitor does not reflect the service restart.

To be notified about each restart of DBEngine, you can enable the rule “SQL Server *<version>* DB Engine is restarted”. (*<version>* can be 2012 or 2008)

### SQL DB Engine CPU Monitoring

CPU utilization is monitored by the monitor, which provides a measure of how much processors actually working on SQL Server’s process threads, and raises an alert if all allocated CPUs are busy processing SQL Server tasks. This monitoring scenario takes into account the current affinity mask of SQL DB Engine.

### DB Storage Latency Monitoring

DB Storage performance is monitored by two monitors “Disk Read Latency” and “Disk Write Latency”. In case of significant storage performance degradation, alert will be raised. These monitors disabled by default. Enable these monitors only for specific DBs where it is required monitor storage performance. In addition, latency can be viewed on Database Dashboard.

### Disabled Rules

Some rules in the management pack are disabled by default to avoid noise. Consider enabling rules that can be valuable in your environment. The following rules are disabled by default:

 An SQL job failed to complete successfully

 An SQL Server Service Broker procedure output results

 An SNI call failed during a Service Broker/Database Mirroring transport operation

 SQL Server restarted

 SQL Server Service Broker Manager has shutdown

 SQL Server Service Broker or Database Mirroring is running in FIPS compliance mode

 SQL Server Service Broker or Database Mirroring Transport stopped

 SQL Server Service Broker transmitter shut down due to an exception or a lack of memory

 SQL Server terminating because of system shutdown

 Table: Creating statistics for the following columns

 The Service Broker or Database Mirroring Transport has started

 The SQL Server Service Broker or Database Mirroring transport is disabled or not configured

Viewing Information in the Operations Manager Console

You can see a high-level view of object types in your SQL Server deployment.

A view can contain a lengthy list of objects. 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 the How to Manage Monitoring Data Using Scope, Search, and Find topic in the Operations Manager Help.

These views are listed directly under the Microsoft SQL Server node in the Monitoring pane of the Operations Manager console. Details for most views are listed in the following table.

 Active Alerts, which displays an aggregation of all alerts that are not closed.

 Computers, which displays a state view of all the computers running SQL Server.

 Task Status, which displays a status view of all available tasks.

 Databases

 Health Monitoring

 Performance

 Replication

 Server Roles

 SQL 2008

 SQL 2008 R2

 SQL 2012

 SQL Agent

### Databases Views

| **View Name** | **Description** |
| --- | --- |
| Database Free Space | The Legend pane displays a list of counters for every monitored database.  A chart illustrates the information in the Legend pane. |
| Database State | Displays a list of monitored databases and their current states.  The Detail View pane displays the properties of the database selected above. |
| Transaction Log Free Space | The Legend pane displays a list of Transaction Log files. |
| SQL Server 2012 Databases Summary Dashboard | Displays list of SQL Server 2012 databases and their state. Provides detailed information about selected database. Use Databases widget to select a database. DB Alerts widget displays alerts and warnings that target the database. Free Space widget displays three series of data that represent Used, Allocated and Disk Free space, if auto grow is disabled only two series of data will be displayed (Used and Allocated). The widget has 2 scale types: Linear and Logarithmic. Hover over Y-Axis to switch between them. Red and Yellow lines represent Upper and Lower thresholds that are set for DB Total Space monitor. Performance section contains eight performance collection rules, four of them can be linked with monitors. If linked monitors are disabled widgets display performance collection data without heath state indication. Since there are no monitors for DB Active Sessions, DB Active Requests, DB Active Connections and DB Transactions/sec they do not have health state indication. Next monitors are linked with top four performance widgets: Transaction Log Free Space (%), DB Total Space, Disk Read Latency and Disk Write Latency monitors.  Personalization option allows selecting Time Range for Free Space and Performance widgets by default the value is set to 2 days. |

### Health Monitoring Views

| **View Name** | **Description** |
| --- | --- |
| Agent Health | This is a dashboard view that displays the health of SQL Agents and, for each agent, the alerts that have not been closed.  If you have discovered agent jobs, they are also included in this view.  The Detail View pane provides the properties of the agent selected in the SQL Agent State pane. |
| Database Engine Health | This is a dashboard view that displays the health of each database engine instance, including a list of the alerts that have not been closed for that database engine instance and for any objects that instance contains.  The Detail View pane displays the properties of the selected database engine instance. |

### Performance Views

| **View Name** | **Description** |
| --- | --- |
| All Performance Data | The Legend pane contains a list of objects for which data is collected. |
| Database Free Space | The Legend pane displays a list of databases. |
| User Connections | The Legend pane displays a list of objects governed by the SQL User Connections rule. |
| Transaction Log Free Space | The Legend pane displays a list of Transaction Log files. |

### Replication Views

| **View Name** | **Description** |
| --- | --- |
| Distributor State | Displays the state of the replication distributor. |
| Publication State | Displays the state of the replication publication. |
| Publisher State | Displays the state of the replication publisher. |
| Subscription State | Displays the state of the replication subscription. |

### Server Roles Views

| **View Name** | **Description** |
| --- | --- |
| Analysis Services | Displays a list of instances with SQL Server Analysis Services installed. |
| Database Engines | Displays a list of instances with SQL Server Database Engine installed. |
| Integration Services | Displays a list of instances with SQL Server Integration Services installed. |
| Reporting Services | Displays a list of instances with SQL Server Reporting Services installed. |

### SQL Server Agent Views

| **View Name** | **Description** |
| --- | --- |
| SQL Agent Job State | The SQL Server Agent Job State panel displays a list of agent jobs.  The Detail View pane contains the properties of the SQL Server Agent Job. |
| SQL State | Displays a list of SQL Server Agents. If agent jobs have been discovered, it also contains columns for each agent job and their respective health states.  The Detail View displays the properties of the SQL Server Agent. |

### Dashboards

This management pack includes a set of rich dashboards, which provide detailed information about SQL Server Database Engines (Instances) and Databases.

Note

For detailed information, see SQLServerDashboards.doc.

# Appendix: Known Issues and Troubleshooting

WMI errors may occur when SQL Server 2008/2008 R2 and SQL Server 2012 are installed on the same server.

Issue: Modules can throw an error during WMI query.

Resolution: Update SQL Server 2008/2008 R2 with the latest service pack.

Database Backup Status Monitor generates false positive alerts on Always On Group secondary replicas.

Issue: Database Backup Status monitor has no logic to track whether the database is a secondary replica or not. Since AOG has an advanced backup logic, which requires a backup for at least one of the databases involved, the monitor generates false positive alerts.

Resolution: The monitor is disabled by default and if user wants to enable the monitoring scenario for his environment, it is recommended to keep the monitor disabled for all servers, which are not used for storing the database backup. A specific scenario for AON MP could be implemented in the future.

Mirroring Diagrams are version-specific.

Issue: There are 3 Mirroring diagrams: SQL Mirroring 2008, 2012 and 2014. Each diagram displays object of the specified version and does not show related objects, which are hosted on other versions of SQL Server.

Resolution: If configured SQL Server Mirroring uses different versions of SQL Server, user should monitor all views related to the chosen versions.

Error “missing performance counters” in OpsMgr event log.

Issue: If required performance counters are not registered in the performance monitor, monitoring scenarios from the management pack cannot get required information and exit with the error.

Resolution: Register the counters. More information can be found [here](http://blogs.technet.com/b/pfelatam/archive/2011/08/08/sql-performance-counters-are-missing.aspx).

SQL Server 2005 seed is discovered on every machine, which runs SQL Server.

Issue: Since there is no obvious way to discover existence of SQL Server 2005 on a machine, it was decided to create the seed on every machine, which runs SQL Server.

Resolution: There is no resolution since seeds are service entities and are not meant to be used by the end user.

Free Space widget incorrectly displays data

Issue: Free Space widget displays data provided by 3 performance collection rules:   
1. SQL 2012 DBs Used Space (MB) performance collection rule

2. MSSQL 2012: Collect DB Allocated Free Space (MB)

3. MSSQL 2012: Collect DB Used Space (MB)

If intervals for these rules are not synchronized, the widget cannot correctly display the chart and user sees shifted data series or overlaps in the chart.

Resolution: Make sure intervals for the rules are the same. When intervals are synchronized, the widget will start displaying chart correctly. Previously collected data will be incorrectly displayed anyway.

SQL Server 2012 Databases Summary Dashboard displays all active alerts if nothing is selected

Issue: Currently the dashboard displays all active alerts if nothing is selected. It is a standard querying mechanism of the default Alerts widget.

Resolution: Make sure that at least one DB suites the filtering options.

Widgets cannot display performance data if DB name has special symbols

Issue: Default performance widgets and SQL Server 2012 Databases Summary Dashboard will not display performance data for Databases that have name with bracers. This is a known SCOM issue. Moreover, If a database name is **\_Total**, then cumulative performance metrics are collected for all databases, as long as **\_Total** is a special object in a performance monitor.

Resolution: There is no known workaround at the moment.

SQL Server 2012 Databases Summary Dashboard may stop refreshing if left open for a long period

Issue: SCOM console has a memory leak that becomes noticeable if you have a dashboard with considerable amount of widgets. Because of the memory leak, Authoring Console may consume all available memory and cause a situation when widgets stop refreshing.

Resolution:

Restart the Authoring Console.

Functions fail if instance name contains Asian characters

Issue: Functions fail to work on SQL Server 2008 if the instance name contains Asian characters. This situation is caused by the System Center Operations Manager 2007 and System Center Operations Manager 2007 SP1 known issue of the SCOM.ScriptAPI object, which is used to pass data from discovery script to Health Service at target machine. This object incorrectly converts Variant to BSTR data type. For more information, see the [Microsoft TechNet System Center Operations Manager Authoring forum](http://go.microsoft.com/fwlink/?LinkId=193880).

Resolution: This issue is resolved in System Center Operations Manager 2007 R2. Users who need to monitor SQL Server with a localized instance name should update to Operations Manager 2007 R2.

10102 events from “Health Service Modules” are being generated on systems with 32-bit instances of SQL Server running on a 64-bit operating system, indicating that “PerfDataSource” could not resolve counters

Issue: On agent-managed systems that have a 32-bit instance of SQL Server installed on a 64-bit operating system, many 10102 error events will be reported into the Operations Manager log, indicating that PerfDataSource could not resolve a number of counters and that the module will be unloaded. These events are immediately followed by an 1103 event from HealthService indicating that one or more rules or one or more monitors failed and that the failed rules or monitors were unloaded.

Resolution: No resolution. Only a subset of monitoring will work for 32-bit installations of SQL Server that are monitored on a 64-bit operating system. This is because the SQL Server processes are 32-bit, the Operations Manager agent processes are 64-bit, and there are limitations in collecting performance data across architectures. These limitations are documented in [Knowledge Base article 891238](http://go.microsoft.com/fwlink/?LinkId=128280).

11771 events from “Health Service Modules” are reported on systems with SQL Server 2008 Management Pack running the SQL Server Full Text Search Service Monitor

Issue: Agent-managed systems are running SQL Server Management Pack, and many 11771 events are reported. For example, see the following 11771 event.

| **Log** | **Operations Manager** |
| --- | --- |
| Source | Health Service Modules |
| Event ID | 11771 |
| Level | Warning |
| Description | Error getting state of service  Error: 0x8007007b  Details: The filename, directory name, or volume label syntax is incorrect. |

Resolution: The SQL Server Full Text Search Service Monitor expects to monitor the running SQL Server Full Text Search Service. If the SQL Server Full Text Search Service is not running, the management pack generates the 1171 events. To stop receiving the 11771 events, you can disable the SQL Server Full Text Search Service Monitor.

On clustered SQL Server, Management Pack discovery scripts time out for SQL Server Database Engines, SQL Server Analysis Services, and SQL Server Reporting Services

Issue: On a cluster, when there are multiple clustered SQL Server instances, management pack discovery scripts may time out for Database Engines, Analysis Services, and Reporting Services. You might see events similar to the following example.

|  |  |
| --- | --- |
| Log Name: | Operations Manager |
| Source: | Health Service Modules |
| Date: | 1/8/2009 5:33:23 PM |
| Event ID: | 21402 |
| Task Category: | None |
| Level: | Warning |
| Keywords: | Classic |
| User: | N/A |
| Computer: | SQL-Ex88S22.MPLAB.com |
| Description: | Forced to terminate the following process started at 5:28:24 PM because it ran past the configured timeout 300 seconds. |
| Command executed: | "C:\Windows\system32\cscript.exe" /nologo "DiscoverSQL2008DBEngineDiscovery.vbs" {32FBB1E4-C6D1-0517-2F47-3DDA67D46A3B} {D1C9D03B-AAAE-D1FF-5ECA-6AF1981FE271} SQL-Ex88S22.MPLAB.com SQL-Ex88S22.MPLAB.com SQL-Ex88S22 "Exclude:" |
| Working Directory: | C:\Program Files\System Center Operations Manager 2007\Health Service State\Monitoring Host Temporary Files 3\796\ |
| Description: | One or more workflows were affected by this.  Workflow name: Microsoft.SQLServer.2008.DBEngineDiscoveryRule.Server  Instance name: SQL-Ex88S22.MPLAB.com  Instance ID: {D1C9D03B-AAAE-D1FF-5ECA-6AF1981FE271}  Management group: MOMGroup1 |

Resolution: Use overrides to increase the timeout value. To identify a new timeout value, use the following guidelines: (number of Database Engine instances on the physical node multiplied by 25 seconds\*) plus (number of Analysis Services instances on the physical node multiplied by 25 seconds\*) plus (number of Reporting Services instances on the physical node multiplied by 25 seconds\*).

\*This number approximates the time it takes for a script to run. The time it takes for a script to run on your system may vary.

For example, for a clustered SQL Server environment where there are 12 instances of Database Engine on each physical node, 10 instance of Analysis Services on each physical node, and 8 instances of Reporting Services on each physical node, the new timeout estimate is based on the calculation (12\*25 sec)+(10\*25 sec)+(8\*25 sec). The default timeout value is 300 seconds. In this case, the new timeout value should be 750 seconds.

To use an override to enter a new timeout value for discovery scripts

|  |
| --- |
| 1. Open the Operations Manager console, and then click Authoring.  2. In the Authoring pane, in the left navigation area, click Management Pack Objects, and then click Object Discoveries. The Object Discoveries pane displays a list of objects that the management pack discovers.  3. Right-click the discovery that you want to change, click Overrides, click Override the Object Discovery, and then click For all objects of type: Windows Server. The Override Properties dialog box is displayed.  4. Under Override-controlled parameters, select the Override box next to the Timeout Seconds parameter, and then increase the default number of seconds in Override Value by typing in a new number.  5. Under Management Pack, in Select a destination management pack, click the arrow to select a management pack from the list, or click New and follow the instructions in the wizard to create a new management pack for storing overrides and other customizations. For more information about creating a new management pack for customizations, see the [Create a New Management Pack for Customizations](#z202def08cb5e440c86205fb02d98b710) section. |

Data file and log file free space and free space percent collection rules and monitors might return inaccurate size values

Issue: On some agent-managed systems with databases that are two terabytes or larger, or with databases that were upgraded from SQL Server 2000, free space and free space percent collection rules and monitors might return inaccurate values for data file and log file sizes. The following rules and monitors are reported to have been affected for SQL Server 2008 and SQL Server 2012:

Database Size Provider (Optimized)

 Collect Database Free Space (MB)

 Collect Database Free Space (%)

 Collect Database Size (MB)

 Collect Transaction Log Free Space (MB)

 Collect Transaction Log Free Space (%)

 Collect Transaction Log Size (MB)

Database / Log Free Space

 Database Space Free (%)

 Database Space Free (MB)

 Transaction Log Space Free (%)

 Transaction Log Space Free (MB)

Database Percentage Change

 Percentage Change in Database % Used Space

Resolution: If you encounter this issue, run the DBCC Update usage (Transact-SQL) command against the affected databases as described in [SQL Server 2008 Books Online (February 2009)](http://go.microsoft.com/fwlink/?LinkId=146877).

Note

Running this command might affect the overall performance of the database. We recommend that you schedule the command to run when it will not negatively affect the production workload.

No other workarounds exist. If the issue persists, contact customer support services or disable the affected rules or monitors.

Rules and monitors that are based on events from the event log do not work reliably on clustered installations of SQL Server

Issue: On clustered installations of SQL Server, rules and monitors that are based on events from the event log do not work reliably. The issue occurs because events for clustered installations of SQL Server are generated to event logs differently based on the version of the operating system.

Resolution: To resolve this issue, the following prerequisites must be met:

1. Ensure that the version of SQL Server Management Pack that is imported is version 6.0.6648.0 or greater.

2. Check the version of the management group:

 If the management group is running Operations Manager 2007, upgrade to Operations Manager 2007 SP1 and install the update from Knowledge Base article 959865, [Issues that are resolved by the Operations Manager Module rollup update for System Center Operations Manager 2007 Service Pack 1](http://go.microsoft.com/fwlink/?LinkId=155339).

 If the management group is running Operations Manager 2007 SP1, install the update from Knowledge Base article 959865, [Issues that are resolved by the Operations Manager Module rollup update for System Center Operations Manager 2007 Service Pack 1](http://go.microsoft.com/fwlink/?LinkId=155339).

 If the management group is running Operations Manager 2007 R2, no additional update is required.

Error “Rule/Monitor "<Rule/Monitor ID> cannot be initialized and will not be loaded” in OpsMgr event log.

Issue: Since the 6.6.7.6 version of System Center Management Pack for SQL Server has been installed, the "Microsoft.SQLServer.2012.AlwaysOn.TransactionDelay" rule failed. The issue occurs because of the “Tolerance” and “Maximum Sample Separation” were deprecated and removed. Similar issue for other monitors/rules where the Optimization used before updating System Center Management Pack for SQL Server

|  |  |
| --- | --- |
| Log Name: | Operations Manager |
| Source: | HealthService |
| Date: | 1/8/2015 10:44:20 AM |
| Event ID: | 1102 |
| Task Category: | Health Service |
| Level: | Error |
| Keywords: | Classic |
| User: | N/A |
| Computer: |  |
| Description: | Rule/Monitor "Microsoft.SQLServer.2012.AlwaysOn.TransactionDelay" running for instance "xxxx" with id:"{284FC6CA-2A7F-3720-8D87-4DA0CAC6E288}" cannot be initialized and will not be loaded. Management group "SCOM 2012 Production" |

Resolution: Re-create overrides for this Rule and then restart the Health Service.

SQL User Connections Performance monitor fails

Issue: In some cases SQL Server Database Engine user connections baseline monitor can fail with an error.

Resolution: Unknown

Mirrored Databases Witnesses Discovery errors

Issue: After installation of 6.6.2.0 or higher version of the MP, the following error messages may be received:

*Management Group: Script: DiscoverSQL2012MirroringWitness.vbs. Instance: xxxxx : Mirroring witness discovery script 'DiscoverSQL2012MirroringWitness.vbs' for instance 'xxxxx' failed.*

Resolution: By default, local system account has no permission on sys.database\_mirroring\_witnesses. Accordingly, it is necessary to grant the corresponding permission for the local system account (see [Setting up a low-privilege Environment](#SettingupLPG) section for details). If you do not want to change the security configuration (or you do not use mirroring at all) and want to stop getting such messages, you may disable this discovery. If you do not have mirroring and do not plan to use it, simply uninstall this discovery and the corresponding monitoring files.

SQL Configuration Manager may start snap-in of wrong version

Issue: SQL Configuration Manager may start snap-in of wrong version. E.g., SQL Server 2012 task starts sqlservermanager10.msc snap-in, which stands for SQL Server 2008.

Resolution: Console tasks require installation of management tools corresponding to the target SQL Server Instance on the server where they are launched.

SQL DB Engine Service Monitor may fail if "Alert only if service startup type is automatic" override parameter is set to "FALSE"

Issue: SQL DB Engine Service Monitor may fail if "Alert only if service startup type is automatic" override parameter is manually set to "FALSE", and the string is put in uppercase.

Resolution: When overriding the abovementioned parameter, put the string to lowercase.

Some monitors may fail if a database name contains quotes.

Issue: The following monitors may fail if a database name contains two consecutive single quotation marks:

* Database Backup Status
* Auto Update Statistics Configuration
* Auto Update Statistics Async Configuration
* DB Chaining Configuration
* Recovery Model Configuration
* Page Verify Configuration
* Trustworthy Configuration
* Auto Close Configuration
* Auto Create Statistics Configuration
* Auto Shrink Configuration
* Database Status
* Database Health Policy
* Database Health Policy
* Availability Replicas Connection monitor
* Availability Group Automatic Failover monitor
* Availability Replica Connection
* Availability Replica Join State
* Synchronous Replicas Data Synchronization monitor
* WSFC Cluster monitor
* Availability Database Suspension State
* Availability Replica Role
* Availability Group Online monitor
* Availability Replica Data Synchronization
* Availability Replicas Role monitor
* Availability Replicas Data Synchronization monitor
* Availability Database Data Synchronization
* Availability Database Join State
* Availability Replica Health Policy
* Availability Replica Health Policy
* Database Replica Health Policy
* Database Replica Health Policy
* Availability Group Health Policy
* Availability Group Health Policy

Resolution: No resolution.

Some event log rules may not generate alerts for SQL deadlocks

Issue: Some event log rules may not generate alerts in the Operations Manager for certain SQL deadlocks because such events are not logged by SQL server by default in order to prevent possible surcharge on the event log and the agent.

Resolution: To switch on the logging of the events mentioned above, run the following command in SQL Server Management Studio:

*Exec sp\_altermessage [event ID], 'WITH\_LOG', 'true'*

*Select \* from sys.messages where message\_id=[event ID]*

Please remember that this action may lead to overrun of the event log and the agent. Therefore, do not forget to switch off the logging of such events when you do not need it.

You can find the list of the corresponding event IDs in Appendix: Deadlocks Event Log Rules.

UNC path may not be supported while performance data collection

Issue: When autogrowth option is switched on for a database file stored on a fileshare, the database may not be accessible for performance data collection through UNC path.

Resolution: Make sure that autogrowth option is switched off for the database.

Alerts of event-based rules are not displayed in the appropriate views

Issue: Alerts of event-based rules are displayed in the root SQL view instead of appropriate child views.

Resolution: No resolution.

Upon restart of an agent, workflows may throw WMI-related errors to the event log

Issue: Upon agent restart, workflows start working simultaneously. At that, cached value can be outdated or non-existent, and part of the workflows will get errors from WMI.

Resolution: No resolution.

SQL Policy discovery may work incorrectly

Issue: SQL Policy discovery may produce the following isues:

1. Query that gets the list of databases has the following filter: *AND name not in ('master', 'model', 'msdb', 'tempdb', 'distribution')*, while replication distribution databases can have different names.
2. The discovery assumes that the policy is targeted on all databasess, while actually any target can be specified separately (for example, a database with particular name, with ID greater than a certain value etc.).

Resolution: No resolution is available for the first issue. Resolution for the second issue is as follows: exclude policies that are not targeted on all databases.

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”.

**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.

**“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.

# Appendix: SQL Server 2008 / 2008 R2 Management Pack Objects and Workflows

**[Deprecated] SQL Server 2008 Distributor**

All Microsoft SQL Server 2008 distributors. The distributor is a component used in SQL Server Replication; it is considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2008 Distributor - Discoveries**

**[Deprecated] Discover Replication Components**

This object discovery discovers all SQL Server Replication components on an SQL Server 2008 DB Engine. The discovery is disabled by default. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] SQL Server 2008 Distributor - Dependency (rollup) monitors**

**Database Availability (rollup)**

This monitor rolls up availability state from SQL databases to SQL Distributor.

**Database Performance (rollup)**

This monitor rolls up performance state from SQL databases to SQL Distributor.

**[Deprecated] SQL Server 2008 Publication**

All Microsoft SQL Server 2008 replication publications. Considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2008 Publication - Discoveries**

**[Deprecated] SQL Server 2008 Replication Publications and Subscriptions Discovery Provider**

This object discovery discovers replication publications and subscriptions for each SQL Server 2008 database. The discovery is disabled by default. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] SQL Server 2008 Publisher**

All Microsoft SQL Server 2008 publishers. The publisher is a component used in SQL Server Replication; it is considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2008 Publisher - Discoveries**

**[Deprecated] Discover Replication Components**

This object discovery discovers all SQL Server Replication components on an SQL Server 2008 DB Engine. The discovery is disabled by default. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] SQL Server 2008 Publisher - Console Tasks**

**[Deprecated] SQL Replication Monitor**

**[Deprecated] SQL Server 2008 Replication Computers**

A group containing all Windows computers running Microsoft SQL Server 2008 involved in the replication. Considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2008 Replication Computers - Discoveries**

**[Deprecated] Populate Microsoft SQL Server 2008 Replication Computers Group**

This object discovery populates SQL Server 2008 Replication Component computer group with all computers that are running an instance of SQL Server 2008 DB Engine and have some replication components configured. Considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2008 Subscription**

All Microsoft SQL Server 2008 replication subscriptions. Considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2008 Subscription - Discoveries**

**[Deprecated] SQL Server 2008 Replication Publications and Subscriptions Discovery Provider**

This object discovery discovers replication publications and subscriptions for each SQL Server 2008 database. The discovery is disabled by default. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Operations Manager Enterprise License**

This class represents a OpsMgr Enterprise license.

**Operations Manager Enterprise License - Discoveries**

**License Discovery for Microsoft SQL Server**

This is a system discovery, which should not be modified.

**SQL 2008 Mirrored DB**

Microsoft SQL Server 2008 Mirrored Database

**SQL 2008 Mirrored DB - Discoveries**

**Discover Mirrored Databases for a Database Engine**

This object discovery discovers all mirrored databases running for a given instance of SQL Server 2008 DB Engine. By default, all mirrored databases are discovered and monitored. You can override the discovery to exclude one or more databases from being discovered using the Exclude List. This list takes a comma-separated list of database names or \* wildcard to exclude all databases.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of database names that should be excluded from discovery. You can use the wildcard \* to exclude all databases. |  | | 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 | |  |
|  |  |  |

**SQL 2008 Mirrored DB - Unit monitors**

**Database Mirror Status**

This monitor checks if database mirror is synchronized.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Database Mirror Witness Status**

This monitor checks if database mirror witness is accessible.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL 2008 Mirrored DB Witness**

Microsoft SQL Server 2008 Mirrored Database Witness

**SQL 2008 Mirrored DB Witness - Discoveries**

**Discover Mirrored Databases Witnesses**

This object discovery discovers all mirrored databases witnesses running for a given instance of SQL Server 2008 DB Engine. By default witnesses for all mirrored databases are discovered and monitored. You can override the discovery to exclude one or more databases from being discovered using the Exclude List. This list takes a comma-separated list of database names or \* wildcard to exclude all databases.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of database names that should be excluded from discovery. You can use the wildcard \* to exclude all databases. |  | | 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 | |  |
|  |  |  |

**SQL 2008 Mirrored DB Witness - Unit monitors**

**Database Mirroring Partners Status**

This monitor checks if database mirror is synchronized.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL 2008 Mirroring Group**

Microsoft SQL Server 2008 Mirroring Group

**SQL 2008 Mirroring Group - Discoveries**

**Discover Mirrored Databases for a Database Engine**

This object discovery discovers all mirrored databases running for a given instance of SQL Server 2008 DB Engine. By default, all mirrored databases are discovered and monitored. You can override the discovery to exclude one or more databases from being discovered using the Exclude List. This list takes a comma-separated list of database names or \* wildcard to exclude all databases.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of database names that should be excluded from discovery. You can use the wildcard \* to exclude all databases. |  | | 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 | |  |
|  |  |  |

**Discover Mirrored Databases Witnesses**

This object discovery discovers all mirrored databases witnesses running for a given instance of SQL Server 2008 DB Engine. By default witnesses for all mirrored databases are discovered and monitored. You can override the discovery to exclude one or more databases from being discovered using the Exclude List. This list takes a comma-separated list of database names or \* wildcard to exclude all databases.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of database names that should be excluded from discovery. You can use the wildcard \* to exclude all databases. |  | | 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 | |  |
|  |  |  |

**SQL 2008 Mirroring Group - Dependency (rollup) monitors**

**Mirrored Database Configuration Rollup**

This monitor rolls up the Mirrored Database configuration health to the Mirroring Group.

**Mirroring Witness Availability Rollup**

This monitor rolls up the Mirroring Witness availability health to the Mirroring Group.

**Mirrored Database Performance Rollup**

This monitor rolls up the Mirrored Database performance health to the Mirroring Group.

**Mirrored Database Availability Rollup**

This monitor rolls up the Mirrored Database availability health to the Mirroring Group.

**SQL 2008 Mirroring Witness Role**

Microsoft SQL Server 2008 Database Mirroring Witness Role.

**SQL 2008 Mirroring Witness Role - Dependency (rollup) monitors**

**Mirroring Witness Availability Rollup**

This monitor rolls up the Mirroring Witness availability health to the Mirroring Witness Role.

**SQL Server 2008 Agent**

Microsoft SQL Server 2008 agent component

**SQL Server 2008 Agent - Discoveries**

**Discover SQL Server Agent for a DB Engine**

This object discovery discovers the SQL Server Agent for an instance of SQL Server 2008 DB Engine. There will always be one SQL Server Agent instance for each DB Engine instance.

**SQL Server 2008 Agent - Unit monitors**

**SQL Server Agent Windows 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Long Running Jobs**

This monitor checks for long running SQL Agent jobs.   
Note that SQL Server Agent Windows 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | | Lower Threshold (minutes) | The lower threshold (in minutes) for this monitor. By default, exceeding this threshold will result in the monitor changing to at least a warning state. | 60 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold (minutes) | The upper threshold (in minutes) for this monitor. By default, exceeding this threshold will result in the monitor changing to a critical state. Being between this threshold and the lower threshold (inclusive) will result (by default) in the monitor being in a warning state. | 120 | |  |
|  |  |  |

**SQL Server 2008 Agent - Dependency (rollup) monitors**

**Agent job availability (rollup)**

This monitor rolls up availability state from SQL Agent Jobs to SQL Agent.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express; there is no appropriate discovered object.

**Agent job performance (rollup)**

This monitor rolls up performance state from SQL Agent Jobs to SQL Agent.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express; there is no appropriate discovered object.

**SQL Server 2008 Agent - Rules (alerting)**

**SQL Server Agent initiating self-termination**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Unable to re-open the local event log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Agent shutdown. For more information, see the SQL Server Agent job history for job.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Step of a job caused an exception in the subsystem**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Unable to connect to SQL Server**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Agent could not be started**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An SQL job failed to complete successfully**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Job step cannot be run because the subsystem failed to load**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] The agent is suspect. No response within last minutes.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Alert engine stopped due to unrecoverable local event log errors**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2008 Agent - Tasks**

**Start SQL Agent Service on Cluster**

Start SQL Agent Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Agent Service on Cluster**

Stop SQL Agent Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Agent Service**

Start SQL Agent Service.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Agent Service**

Stop SQL Agent Service.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2008 Agent Job**

All Microsoft SQL Server 2008 agent jobs.

**SQL Server 2008 Agent Job - Discoveries**

**Discover SQL Server 2008 Agent Jobs**

This object discovery discovers all SQL Server 2008 Agent jobs. The discovery is disabled by default.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2008 Agent Job - Unit monitors**

**Last Run Status**

SQL 2008 Agent Job 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 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 | |  |
|  |  |  |

**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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 600 | | Lower Threshold (minutes) | The lower threshold (in minutes) for this monitor. By default, exceeding this threshold will result in the monitor changing to at least a warning state. | 60 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold (minutes) | The upper threshold (in minutes) for this monitor. By default, exceeding this threshold will result in the monitor changing to a critical state. Being between this threshold and the lower threshold (inclusive) will result (by default) in the monitor being in a warning state. | 120 | |  |
|  |  |  |

**SQL Server 2008 Agent Job - Tasks**

**Stop SQL Agent Service on Cluster**

Stop SQL Agent Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Agent Service**

Stop SQL Agent Service.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Agent Service**

Start SQL Agent Service.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Agent Service on Cluster**

Start SQL Agent Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2008 Agents Group**

A group containing all SQL Server 2008 agents

**SQL Server 2008 Agents Group - Discoveries**

**MSSQL 2008: Populate SQL Server 2008 Agents Group**

This discovery rule populates SQL Server 2008 Agents group with all SQL Server 2008 agents.

**SQL Server 2008 Analysis Services**

An installation of Microsoft SQL Server 2008 Analysis Services

**SQL Server 2008 Analysis Services - Discoveries**

**Discover SQL Server 2008 Analysis Services (Windows Server)**

This object discovery discovers all instances of SQL Server 2008 Analysis Services. By default, all instances are discovered and monitored.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2008 Analysis Services - Unit monitors**

**SQL Server Analysis Services Windows Service**

This monitor checks the status of the SQL Analysis Services service.  
Note that SQL Analysis Services service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2008 Analysis Services - Rules (alerting)**

**An error occurred while starting the flight recorder**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while writing a trace event to the file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while stopping the error log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The configuration file could not be saved**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while data was being written to the query log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while stopping the query log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The database cryptographic key could not be loaded**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The metadata object could not be linked.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The service cannot be started**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The metadata object could not be loaded**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Error reported from Message Manager.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while starting the error log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while starting the query log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred when the service attempted to shrink the database connection pool**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while closing the trace output file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while the query log table was being created**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while writing a trace event to the rowset**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The operating system resource (thread) could not be created during the initialization of the lazy writer**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Background lazy processing failed due to an error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The trace waited too long for the TCP rowset sender to finish.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The OLE DB provider reported an error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The operating system resource (event) could not be created during initialization of the lazy writer.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The configuration file could not be loaded**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The metadata object could not be instantiated.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2008 Analysis Services - Rules (non-alerting)**

**SSAS 2008: Current Connections**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2008: Data Mining Model Processing: Current Models Processing**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2008: Query: Rows Sent Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2008: Memory: Memory Limit High (KB)**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2008: Proc: Rows Written Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2008: Query: Bytes Sent Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2008: Data Mining Prediction: Concurrent DM Queries**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2008: Query: Average Time Per Query**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2008: Proc: Rows Read Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SQL Server 2008 Analysis Services - Tasks**

**Start SQL Analysis Services Service**

Start SQL Analysis Services Service.  
Note that SQL Server Analysis Services Windows service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Analysis Services Service on Cluster**

Stop SQL Analysis Services Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Analysis Services Service**

Stop SQL Analysis Services Service.  
Note that SQL Server Analysis Services Windows service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Analysis Services Service on Cluster**

Start SQL Analysis Services Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2008 Computers**

A group containing all Windows computers that are running a component of Microsoft SQL Server 2008.

**SQL Server 2008 Computers - Discoveries**

**Populate Microsoft SQL Server 2008 Computer Group**

This object discovery populates SQL Server 2008 Computer Group with all computers that are running one or more components of SQL Server 2008.

**SQL Server 2008 Databases Group**

A group containing all SQL Server 2008 databases

**SQL Server 2008 Databases Group - Discoveries**

**MSSQL 2008: Populate SQL Server 2008 Databases Group**

This discovery rule populates SQL Server 2008 Databases group with all SQL Server 2008 databases.

**SQL Server 2008 DB**

Microsoft SQL Server 2008 database

**SQL Server 2008 DB - Discoveries**

**Discover Databases for a Database Engine**

This object discovery discovers all databases running for a given instance of SQL Server 2008 DB Engine. By default, all databases are discovered and monitored. You can override the discovery to exclude one or more databases from being discovered using the Exclude List. This list takes a comma-separated list of database names or \* wildcard to exclude all databases.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of database names that should be excluded from discovery. You can use the wildcard \* to exclude all databases. |  | | 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 | |  |
|  |  |  |

**SQL Server 2008 DB - Unit monitors**

**DB Total Space**

Monitors the space available in the database and on the media hosting the database in percentage terms.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | | Lower Threshold | The lower threshold for this monitor. | 10 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold | The upper threshold for this monitor. | 20 | |  |
|  |  |  |

**SQL Server Windows Service**

This monitor checks the status of the SQL Database Engine service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Database Backup Status**

This monitor checks the status of the database backup as reported by Microsoft® SQL Server™. Note that the monitor ignores Always On databases. Therefore, it is always "green" for those databases. For backups of Always On databases, use the dedicated monitors at the Availability Group.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Backup Period (days) | Backup Period | 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 | |  |
|  |  |  |

**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 all Log Shipping is not supported by any edition of SQL Server Express.

**Auto Update Statistics Configuration**

Monitors the auto update statistics setting for the database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | ON | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**[Deprecated] DB Log File Space Free (%)**

This monitor is DEPRECATED. Monitors the space available on the log files and on the media hosting the log in percentage terms.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | | Lower Threshold | The lower threshold for this monitor. | 10 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold | The upper threshold for this monitor. | 20 | |  |
|  |  |  |

**[Deprecated] DB Space Free (MB)**

This monitor is DEPRECATED. Monitors for the free space left in the database in terms of megabytes.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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. | 900 | | Lower Threshold | The lower threshold for this monitor. | -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. | 300 | | Upper Threshold | The upper threshold for this monitor. | -1 | |  |
|  |  |  |

**Database Status**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 3600 | | Synchronization Time | The synchronization time specified by using a 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 | |  |
|  |  |  |

**Page Verify Configuration**

Monitors the page verify setting for the database.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | CHECKSUM | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Auto Create Statistics Configuration**

Monitors the auto create statistic setting for the database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | ON | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**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 all Log Shipping is not supported by any edition of SQL Server Express.

**Trustworthy Configuration**

Monitors the trustworthy setting for the database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Auto Close Configuration**

Monitors the auto close setting for the database

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| --- | --- | --- |
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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 | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | true | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | 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 statistics async setting for the database

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| --- | --- | --- |
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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 | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Disk Read Latency**

Disk Read Latency monitor for 2008 DBs

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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 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | If the parameter threshold exceeding count is greater or equal to the number of samples, then the monitor will be in a bad state | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:08 | | Threshold | Threshold | 40 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**[Deprecated] DB Log File Space Free (MB)**

This monitor is DEPRECATED. Monitors the space available on the log files and on the media hosting the log files in megabytes.

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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 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Lower Threshold | The lower threshold for this monitor. | -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. | 300 | | Upper Threshold | The upper threshold for this monitor. | -1 | |  |
|  |  |  |

**Disk Write Latency**

Disk Write Latency monitor for 2008 DBs

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | If the parameter threshold exceeding count is greater or equal to the number of samples, then the monitor will be in a bad state | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:08 | | Threshold | Threshold | 25 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**Auto Shrink Configuration**

Monitors the auto shrink setting for the database

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| --- | --- | --- |
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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 | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Recovery Model Configuration**

Monitors the recovery model setting for the database.

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| --- | --- | --- |
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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 | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | FULL | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**DB Chaining Configuration**

Monitors the DB chaining setting for the database

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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 | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**DB Space Percentage Change**

Monitors for a large change in value of database free space over a set number of sample periods.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | | Lower Threshold | The lower threshold for this monitor. | 25 | | 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 | | Upper Threshold | The upper threshold for this monitor. | 45 | |  |
|  |  |  |

**SQL Server 2008 DB - Aggregate monitors**

**Recovery Configuration**

Monitors the aggregate recovery configuration health for the database.

**DB Space**

Monitors the aggregate space health for the database.

**External Access Configuration**

Monitors the aggregate external access configuration health for the database.

**DB Log File Space**

Monitors the aggregate space health for the log file.

**Automatic Configuration**

Monitors the aggregate automatic configuration health for the database.

**SQL Server 2008 DB - Dependency (rollup) monitors**

**DB Filegroup Space (rollup)**

Rolls up Filegroup space health to database.

**DB Log File Space (rollup)**

Monitors the space available in log files

**SQL Server 2008 DB - Rules (non-alerting)**

**[Deprecated] MSSQL 2008: Collect Transaction Log Free Space (MB)**

Collect unused transaction log space reported by SQL Server in megabytes

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Used Space (MB)**

SQL 2008 DBs Used Space (MB) performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Active Sessions count**

SQL 2008 DBs Active Sessions performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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. | 00:04 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2008: Collect Database Total Free Space (%)**

The amount of space left in the 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Disk Free Space (MB)**

SQL 2008 DBs Disk Free Space (MB) performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Collect Transaction Log Size (MB)**

Collect the total transaction log size

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect Transaction Log Free Space (%)**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Disk Read Latency (ms)**

SQL 2008 DB Disk Read Latency (ms) performance collection rule. Gets maximum read disk latency from all logical disk 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. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:08 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**MSSQL 2008: Collect Database Total Free Space (MB)**

The amount of space left in the 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect Database Allocated Size (MB)**

Collect database allocated size

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Active Requests count**

SQL 2008 DBs Active Requests performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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. | 00:02 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Active Connections count**

SQL 2008 DBs Active Connections performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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. | 00:00 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Active Transactions count**

SQL 2008 DBs Active Transactions performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Disk Write Latency (ms)**

SQL 2008 DB Disk Write Latency (ms) performance collection rule. Gets maximum Write disk latency from all logical disk 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. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:08 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Transactions per second count**

SQL 2008 DBs Transactions per second performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Allocated Free Space (MB)**

SQL 2008 DBs Allocated Free Space (MB) performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**SQL Server 2008 DB - Tasks**

**Set Database Online**

Set Database Online

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (sec) |  | 300 | |  |
|  |  |  |

**Set Database to Emergency State**

Set Database to Emergency State

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (sec) |  | 300 | |  |
|  |  |  |

**Check Catalog (DBCC)**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Check Disk (DBCC)**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Set Database Offline**

Set Database Offline

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (sec) |  | 300 | |  |
|  |  |  |

**Check Database (DBCC)**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2008 DB - Console Tasks**

**SQL Profiler**

**SQL Management Studio**

**SQL Server 2008 DB Engine**

An installation of Microsoft SQL Server 2008 Database Engine. The database engine hosts databases and other SQL Server components.

**SQL Server 2008 DB Engine - Discoveries**

**Discover SQL Server 2008 Database Engines (Windows Server)**

This object discovery discovers all instances of SQL Server 2008 DB Engine running on Windows Servers. By default, all instances are discovered and monitored. You can override the discovery to exclude one or more instances from being discovered using the Exclude List. This list takes a comma-separated list of instances or \* wildcard to exclude all instances.

|  |  |  |
| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of instances that should be excluded from discovery. You can use the wildcard \* to exclude all instances. |  | | 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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**SQL Server 2008 DB Engine - Unit monitors**

**Average Wait Time**

Average Wait Time monitor for 2008 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 | If the parameter threshold exceeding count is greater or equal to the number of samples, then the monitor will be in a bad state | 6 | | Threshold | Alert threshold value | 250 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**SQL Server Windows Service**

This monitor checks the status of the SQL 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'. 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. | 60 | | Unavailable Time (seconds) | The minimum duration of service unavailability before considering it unhealthy. | 900 | |  |
|  |  |  |

**Blocking Sessions**

Monitors blocked sessions for an SQL instance.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | 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. | 300 | | Wait Time (minutes) | The minimum process execution duration before considering it for Blocked SPIDs analysis. | 1 | |  |
|  |  |  |

**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 | |  |
|  |  |  |

**Service Pack Compliance**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 2008 | The minimal Service Pack level as per company policy. | 4 | | Minimal Service Pack level for SQL Server 2008 R2 | The minimal Service Pack level as per company policy. | 3 | |  |
|  |  |  |

**Buffer Cache Hit Ratio**

Buffer Cache Hit Ratio for 2008 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | | Threshold | Threshold | 0 | |  |
|  |  |  |

**Page Life Expectancy**

Page Life Expectancy (s) for 2008 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | | Threshold | Threshold | 300 | |  |
|  |  |  |

**SQL User Connections Performance**

This monitor analysis the user connections to the SQL database engine over time, and calculates a baseline over the initial learning period.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Inner Sensitivity | Inner Sensitivity Value for the baseline envelope |  | | Outer Sensitivity | Outer Sensitivity Value for the baseline envelope |  | |  |
|  |  |  |

**CPU Utilization (%)**

CPU Utilization (%) for 2008 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Cache Expiration Time | Specifies the maximum age of information from cache the workflow can use. May be omitted. | 43200 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | If the parameter threshold exceeding count is greater or equal to the number of samples, then the monitor will be in a bad state | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:06 | | Threshold | Threshold | 95 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**Thread Count**

Thread Count for 2008 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Cache Expiration Time | Specifies the maximum age of information from cache the workflow can use. May be omitted. | 43200 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Minimum Free Threads Count | Data Source determine a threshold and thread count for each DB Engine process, alert will be generated if threshold minus current thread count is less or equal than free thread count | 10 | | Number of samples | Number of samples to average before compare it with threshold | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:06 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**SQL Re-Compilation**

SQL Re-Compilation for 2008 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | Number of samples to average before compare it with threshold | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:10 | | 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 | |  |
|  |  |  |

**SQL Full-text Filter Daemon Launcher Service**

This monitor checks the status of the 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. This monitor is disabled by default. Please use overrides to enable it when necessary.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Stolen Server Memory**

Stolen Server Memory for 2008 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | Number of samples to average before compare it with threshold | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:12 | | Threshold | If the ratio between Stolen Server Memory and SQL Server max memory is greater than this threshold alert will be generated | 70 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**SQL Server 2008 DB Engine - Dependency (rollup) monitors**

**Database Performance (rollup)**

Rolls up database performance to instance.

**SQL Server 2008 DB Engine - Rules (alerting)**

**MSSQL 2008: 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)".

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not find Filegroup ID in sys.Filegroups for database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Conflict table does not exist**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to restore master database. Shutting down SQL Server**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while waiting on the article cache access event**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**MSDTC on server is unavailable**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An SQL Server Service Broker conversation closed due to an error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Column is not a valid complex column**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Table error: Page is allocated to different object found in page header**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] The Log Reader Agent for transactional replication encountered an invalid log sequence number (LSN) when reading the transaction log.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**An SNI call failed during a Service Broker/Database Mirroring transport operation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Login failed: Password too simple**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred in the Service Broker manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] An exception occurred while encrypting a message in the target queue**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Table: Creating statistics for the following columns**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Transaction was deadlocked on resources with another process, and has been chosen as the deadlock victim. Rerun the transaction**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: B-tree chain linkage mismatch.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Commit of internal MSDTC transaction failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The initial snapshot for publication is not yet available**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] The specified LSN for repldone log scan occurs before the current start of replication in the log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**A security (SSPI) error occurred when connecting to another Service Broker, or Database Mirroring host**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to initialize the Common Language Runtime (CLR) due to memory pressure**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not obtain exclusive lock on database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**IO Completion Listener Worker appears to be non-yielding on Node**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Failed to open database or transaction log file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The LSN passed to log scan in database is invalid**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to open primary database file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Table error: Page allocated to object was not seen. Page may be invalid or have incorrect object ID information in its header**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not find CHECK constraint, although the table is flagged as having one**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed: Password fails password filter DLL requirements**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: FOR XML EXPLICIT stack overflow occurred. Circular parent tag relationships are not allowed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Distributed transaction aborted by MSDTC**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Operating system error on a device**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Error while undoing logged operation in database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Page is missing references from parent (unknown) and previous nodes. Possible bad root entry in sysindexes**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot open user default database. Login failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: Failed to instantiate class. Make sure Msxml2.dll exists in the SQL Server installation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Table missing or invalid key in index for the row:**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Allocation page has invalid page header values.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The I/O operation was successful after retry**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: cross-object chain linkage**

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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 | |  |
|  |  |  |

**Table error: The text, ntext, or image node at page is not referenced**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Backup device failed - Operating system error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not resolve the referenced column name in table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**No slots are free to keep buffers for table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker cannot use RC4 encryption algorithm when running in FIPS compliance mode**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Invalid reference to File ID**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Database cannot be opened due to inaccessible files or insufficient memory or disk space. See the SQL Server error log for details**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: The low key value on page is not the key value in the parent**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Logical consistency error after performing I/O on page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**SQL Server Service Broker transmitter shut down due to an exception or a lack of memory**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**XML: XML document could not be created, because server memory is low. Use sp\_xml\_removedocument to release XML documents**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The Log Reader Agent encountered an unexpected log record while processing DML operation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Failed to initialize the Common Language Runtime (CLR) with HRESULT**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Parent node for page was not encountered**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Another log reader is replicating the database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Table error: The next pointer of refers to page. Neither its parent were encountered. Possible bad chain linkage**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred in an SQL Server Service Broker/Database Mirroring transport connection endpoint**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Assertion**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred in the SQL Server Service Broker, or Database Mirroring transport manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The provider reported an unexpected catastrophic failure**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] The nonclustered index indicated by the index ID is in error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Starting without recovery**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Address is not aligned**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to create App Domain**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Enlist of MSDTC transaction failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**RESTORE could not start database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to initialize the Common Language Runtime (CLR) with HRESULT**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: The text, ntext, or image node at page is referenced by page not seen in the scan**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not create an instance of OLE DB provider**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Unexpected end of file while reading beginning of backup set**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Database consistency check performed with no errors**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 0 | |  |
|  |  |  |

**[Deprecated] Failed to create a sub-directory under the replication working directory**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Table error: page is out of the range of this database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Begin LSN specified for replication log scan is invalid**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Cannot start service broker activation manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to allocate memory for Common Language Runtime (CLR)**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to add column to table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Cross object linkage**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The query processor could not start the necessary thread resources for parallel query execution**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Test failed. Slot overlaps with the prior row**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Slot, row extends into free space**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred in the Service Broker queue rollback handler**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: Failed to load Msxml2.dll**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot open backup device.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not remove publication from Active Directory**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Database Backup Failed To Complete**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The MSSQL Server service terminated unexpectedly**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] The system tables for merge replication could not be dropped successfully**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Database consistency errors found and repaired**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Login failed: Password too short**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**CHECKTABLE terminated. A failure was detected while collecting facts.**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Descriptor for object in database not found in the hash table during attempt to unhash it**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: The text, ntext, or image node has wrong type**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The Service Broker/Database Mirroring Transport could not listen for connections due to an error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Assertion**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed: Password must be changed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not connect to server because it is not defined as a remote login at the server**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The login account does not have access permission on publication because it is not in the publication access list**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**SQL Server Service Broker, or Database Mirroring Transport stopped**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Database log file is full. Back up the transaction log for the database to free up some log space**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot start service broker manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not open error log file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not allocate space for object in database because the Filegroup is full**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Wrong PageId in the page header**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An SQL Server Service Broker cryptographic operation failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Warning: the index may be corrupt due to expression evaluation changes in this release. Drop and re-create the index.**

This rule is DEPRECATED.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**The Service Broker/Database Mirroring transport cannot listen on port because it is in use**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: XML parsing error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Attempt to fetch logical page that belongs to different object**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Article update successful**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 0 | |  |
|  |  |  |

**Cannot start SQL Server Service Broker on Database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Replication: agent success**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 0 | |  |
|  |  |  |

**Full Text Search: Search on full-text catalog failed with unknown result**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The log for database is not available**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: Size of data chunk requested from the stream exceeds allowed limit**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Replication: agent failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**SQL Server shutdown due to Ctrl-C or Ctrl-Break signal**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Could not get replication information for table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Cannot determine the service account for SQL Server instance**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not update the distribution database subscription table. The subscription status could not be changed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The query has been canceled, because the estimated cost of this query exceeds the configured threshold. Contact the system administrator**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not create a statement object using OLE DB provider**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Page is missing a reference from previous page. Possible chain linkage problem**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Could not allocate memory for replication**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Login failed: Error during validation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not clean up the distribution history tables**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**A default full-text catalog does not exist in the database, or user does not have permission to perform this action**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker or Database Mirror cryptographic call failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The user is not allowed to truncate the system table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**App Domain failed to unload with error code**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker, or Database Mirroring is running in FIPS compliance mode**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 0 | |  |
|  |  |  |

**SQL Server Assertion**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An SQL Server Service Broker dialog caught an error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: The previous link on page does not match the previous page that the parent slot expects for this page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Object, index, page Test failed. Slot - Offset is invalid**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker Manager has shutdown**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | |  |
|  |  |  |

**Internal Query Processor Error: The query processor could not obtain access to a required interface**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An SQL Server Service Broker procedure output results**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 0 | |  |
|  |  |  |

**Could not read and latch page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Permission denied on object**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not do cleanup for the killed process**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not create App Domain manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**CHECKTABLE processing of object encountered page twice. Possible internal error or allocation fault**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server could not allocate enough memory to start Service Broker task manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table: No columns without statistics found**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to drop column from table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failure occurred during database recovery**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Login failed: Account locked out**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Error recovering database. Could not connect to MSDTC to check the completion status of transaction**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**AWE: Could not use Address Windowing Extensions because 'lock pages in memory' privilege was not granted**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The article could not be added to the publication**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Could not mark database as suspect. Getnext NC scan on sysdatabases.dbid failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: Full-text catalog is in an unusable state. Drop and re-create this full-text catalog**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while processing SQL Server Service Broker mirroring routes**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Replication: agent failure**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Optimized concurrent query limit has been exceeded**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Index node page refers to child page and previous child, but they were not encountered**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Extra or invalid key**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed: Password cannot be used at this time**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Unexpected page type**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server terminating because of system shutdown**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Internal Query Processor Error: The query processor ran out of stack space during query optimization**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Recovery of database detected possible identity value inconsistency in table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker attempted to use an unsupported encryption algorithm**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred in the SQL Server Service Broker message transmitter**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to finish full-text operation. The Filegroup is empty, read-only, or not online**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not find FOREIGN KEY constraints for table, although the table is flagged as having them**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Potential deadlocks exist on all schedulers on Node**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: Full-text catalog lacks sufficient disk space to complete this operation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed. The workstation licensing limit for SQL Server access has already been reached**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while reading the log for database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Table error: B-tree page has two parent nodes**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The Service Broker, or Database Mirroring Transport has started**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 0 | |  |
|  |  |  |

**A fatal error occurred in .NET Framework runtime**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Internal Query Processor Error: The query processor encountered an unexpected error during execution**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Checksum failure while page in cache**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Cannot recover the master database. Exiting**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Logical page in database is already hashed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: B-tree level mismatch, page does not match level from parent**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed: Password too long**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Could not retrieve row from page by RID because the requested RID has a higher number than the last RID on the page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**An error occurred in the SQL Server Service Broker message dispatcher**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: IAM chain linkage error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Operating System error encountered**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] Cannot retrieve row from page by RID because the slotid is not valid**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Could not open referenced table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**One or more indexes are damaged and must be repaired or dropped**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Extent object is beyond the range of this database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: IAM page is linked in the IAM chain for object**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Page in its header is allocated by another object**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**OS Error occurred while performing I/O on page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Unique table computation failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Maximum limit for connections has been reached**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: The high key value on page is not less than the low key value in the parent, slot of the next page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: An unknown full-text failure occurred**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Cross object linkage: Parent page in object next refer to page not in the same object**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot start service broker manager due to operating system error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Log Backup Failed to Complete**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed: Password expired**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Common Language Runtime (CLR) not installed properly**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: Could not find full-text index for database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred in the timer event cache**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Internal Query Processor Error: The query processor encountered an unexpected error during the processing of a remote query phase**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not open tempdb. Cannot continue**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not recover database due to unresolved transaction outcomes**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] DBCC executed found and repaired errors**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | |  |
|  |  |  |

**Could not obtain information about Windows NT group/user**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot start service broker security manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: XML error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Service Broker was not able to allocate memory for cryptographic operations**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not write a CHECKPOINT record in database because the log is out of space**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Invalid reference to LOB page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**[Deprecated] Schema replication failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**CREATE DATABASE failed. Could not allocate enough disk space for a new database on the named disks**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Cross object linkage. Page PGID->next is not in the same index**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The server is too busy to perform the backup or restore operation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Database consistency errors found**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**[Deprecated] Could not find column in syscolumns for object in database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Process Worker appears to be non-yielding on Scheduler**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Table error: Page was not seen in the scan although its parent and previous refer to it. Check any previous errors**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The SQL Server Service Broker, or Database Mirroring transport is disabled or not configured**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**SQL Server Service Broker could not query the FIPS compliance mode flag from the registry**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Internal Query Processor Error: The query processor encountered an internal limit overflow**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: Full-Text Search is not enabled for the current database. Use sp\_fulltext\_database to enable Full-Text Search**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**.NET Framework runtime was shut down by user code**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2008 DB Engine - Rules (alerting)**

**SQL Server 2008 DB Engine is restarted**

Detects SQL Server 2008 DB Engine restart.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | | Unavailable Time (seconds) | During this interval, try to catch the event service starting after the event service stop. | 900 | |  |
|  |  |  |

**SQL Server 2008 DB Engine - Rules (alerting)**

**[Deprecated] Run As Account does not exist on the target system, or does not have enough permissions**

A monitoring or discovery script doesn’t have permissions to connect to the database. This rule is considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**SQL Server 2008 DB Engine - Rules (non-alerting)**

**MSSQL 2008: Broker Transport: Receive I/Os Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Activation: Tasks Started Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Engine CPU Utilization (%)**

SQL 2008 DB Engine CPU Utilization (%) performance collection rule.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Cache Expiration Time | Specifies the maximum age of information from cache the workflow can use. May be omitted. | 43200 | | 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. | 00:06 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Engine Page Life Expectancy (s)**

SQL 2008 DB Engine Page Life Expectancy (s) performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect Number of Deadlocks Per Second**

Collects the Windows "Number of Deadlocks Per Second" performance counter for each instance of SQL 2008 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect Lock Timeouts Per Second**

Collects the Windows "Lock Timeouts Per Second" performance counter for each instance of SQL 2008 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Engine Average Wait Time (ms)**

SQL 2008 DB Engine Average Wait Time performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Snapshot Replication: Delivered Commands**

The number of commands per second delivered to the Distributor. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect Number of Lockrequests Per Second**

Collects the Windows "Number of Lockrequests Per Second" performance counter for each instance of SQL 2008 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Statistics: Enqueued Transport Messages Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Replication Logreader: Delivered Commands**

The number of commands per second delivered to the Distributor. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Statistics: SQL SENDs Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect SQL Compilations Per Second**

Collects the Windows "SQL Compilations Per Second" performance counter for each instance of SQL 2008 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect Number of Lockwaits Per Second**

Collects the Windows "Number of Lockwaits Per Second" performance counter for each instance of SQL 2008 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect SQL Re-Сompilations Per Second**

Collects the Windows "SQL Recompiles Per Second" performance counter for each instance of SQL 2008 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Logins per Second**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Engine Thread Count**

SQL 2008 DB Engine Thread Count performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Cache Expiration Time | Specifies the maximum age of information from cache the workflow can use. May be omitted. | 43200 | | 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. | 00:06 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Replication Merge: Uploaded Changes**

The number of rows per second replicated from the Subscriber to the Publisher. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Statistics: SQL RECEIVEs Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect 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 2008 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Transport: Message Fragment Sends Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Statistics: Broker Transaction Rollbacks**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Activation: Tasks Aborted Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Transport: Send I/Os Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Transport: Message Fragment Receives Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Engine Stolen Server Memory (MB)**

SQL 2008 DB Engine Stolen Server Memory (MB) performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | 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. | 00:12 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Snapshot Replication: Delivered Transactions**

The number of transactions per second delivered to the Distributor. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect Buffer Cache Hit Ratio**

Collects the Windows "Buffer Cache Hit Ratio" performance counter for each instance of SQL 2008 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: SQL User Connections**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Replication Merge: Downloaded Changes**

The number of rows per second replicated from the Publisher to the Subscriber. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Replication Merge Conflicts**

The number of conflicts per second occurring during the merge process. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Replication Agents Running**

The number of replication agents currently running. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Transport: Open Connection Count**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Activation: Task Limit Reached Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Collect Learning Data for SQL User Connections Monitor**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Sensitivity |  | 2.81 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Replication Distributor: Delivered Transactions**

The number of transactions per second delivered to the Subscriber. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Statistics: Enqueued Messages Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Replication Logreader: Delivered Transactions**

The number of transactions per second delivered to the Distributor. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Activation: Task Limit Reached**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2008: Broker Activation: Stored Procedures Invoked Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**[Deprecated] MSSQL 2008: Replication Distributor: Delivered Commands**

The number of commands per second delivered to the Subscriber. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SQL Server 2008 DB Engine - Tasks**

**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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Server Service on Cluster**

Stop SQL Server Service on Cluster  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Agent Service on Cluster from DB Engine**

Stop SQL Agent Service on Cluster from DB Engine.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Agent Service on Cluster from DB Engine**

Start SQL Agent Service on Cluster from DB Engine.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Server Service**

Start SQL Server Service

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Server Service on Cluster**

Start SQL Server Service on Cluster.   
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Server Service**

Stop SQL Server Service

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Global Configuration Settings**

Global Configuration Settings

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Enable Replication Events**

Enable logging for Replication events.  
Note that all SQL Express editions support replication in 'Subscriber only' mode.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Timeout (sec) |  | 300 | |  |
|  |  |  |

**SQL Server 2008 DB Engine - Console Tasks**

**SQL Management Studio**

**SQL Profiler**

**SQL Configuration Manager**

**SQL Server 2008 DB Engine Group**

A group containing all instances of Microsoft SQL Server 2008 database engines

**SQL Server 2008 DB Engine Group - Discoveries**

**Populate Microsoft SQL Server 2008 Instance Group**

This object discovery populates SQL Server 2008 Instance Group with all SQL Server 2008 DB Engine.

**SQL Server 2008 DB File**

Microsoft SQL Server 2008 database file

**SQL Server 2008 DB File - Discoveries**

**Discover Files**

This object discovery discovers the file information for each SQL Server 2008 Database. The discovery is used in specific databases or DB Engine instances, where a deeper file monitoring is required.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2008 DB File - Unit monitors**

**[Deprecated] Disk Free Space**

Monitors the free space percentage left on a disk drive.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 3600 | | Threshold |  | 5 | |  |
|  |  |  |

**DB File Space**

Monitors the space available on a database file and on the media hosting the file in percentage terms.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Lower Threshold | The lower threshold for this monitor. | 10 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold | The upper threshold for this monitor. | 20 | |  |
|  |  |  |

**SQL Server 2008 DB File - Rules (non-alerting)**

**MSSQL 2008: Collect 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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect DB File Free Space (MB)**

The amount of space left in a file in megabytes. 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 | | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect DB File Free Space (%)**

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 | | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**SQL Server 2008 DB Filegroup**

Microsoft SQL Server 2008 database Filegroup

**SQL Server 2008 DB Filegroup - Discoveries**

**Discover Filegroups**

This object discovery discovers the Filegroup information for each SQL Server 2008 Database.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2008 DB Filegroup - Aggregate monitors**

**DB Filegroup Space**

Monitors the aggregate space health for the Filegroup.

**SQL Server 2008 DB Filegroup - Dependency (rollup) monitors**

**DB File Space (rollup)**

Monitors the space available in a Filegroup.

**SQL Server 2008 DB Filegroup - Rules (non-alerting)**

**MSSQL 2008: Collect DB Filegroup Free Space (%)**

Collects free database Filegroup 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 | | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect 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 | | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Filegroup Free Space (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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**SQL Server 2008 DB Log File**

Microsoft SQL Server 2008 database log file

**SQL Server 2008 DB Log File - Discoveries**

**Discover Files**

This object discovery discovers the file information for each SQL Server 2008 Database. The discovery is used in specific databases or DB Engine instances, where a deeper file monitoring is required.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2008 DB Log File - Unit monitors**

**DB Log File Space**

Monitors the space available on a log file and on the media hosting the log in percentage terms.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Lower Threshold | The lower threshold for this monitor. | 10 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold | The upper threshold for this monitor. | 20 | |  |
|  |  |  |

**SQL Server 2008 DB Log File - Rules (non-alerting)**

**MSSQL 2008: Collect 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Log File Free Space (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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2008: Collect DB Log File Free Space (%)**

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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**SQL Server 2008 Installation Seed**

It is a seed for Microsoft SQL Server 2008 installation. This object indicates that the particular server computer contains Microsoft SQL Server 2008 installation.

**SQL Server 2008 Installation Seed - Discoveries**

**SQL Server 2008 DB Installation Discovery Source**

This object discovery discovers a seed for Microsoft SQL Server 2008 installation. This object indicates that the particular server computer contains Microsoft SQL Server 2008 installation.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Frequency in seconds |  | 14400 | |  |
|  |  |  |

**SQL Server 2008 Instance Group**

A group containing all SQL Server 2008 DB Engine Instances

**SQL Server 2008 Instance Group - Discoveries**

**MSSQL 2008: Populate SQL Server 2008 Instance Group**

This discovery rule populates SQL Server 2008 Instance group with all SQL Server 2008 DB Engines.

**SQL Server 2008 Integration Services**

An installation of Microsoft SQL Server 2008 Integration Services

**SQL Server 2008 Integration Services - Discoveries**

**Discover SQL Server 2008 Integration Services (Windows Server)**

This object discovery discovers if SQL Server 2008 Integrate Services is installed.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | |  |
|  |  |  |

**SQL Server 2008 Integration Services - Unit monitors**

**SQL Server Integration Services Windows Service**

This monitor checks the status of the SQL Integration Services service.  
Note that all SQL Express editions support only SQL Server Import and Export Wizard, along with Built-in data source connectors. There is no appropriate discovered object (service).

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2008 Integration Services - Rules (alerting)**

**IS Package Failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Package execution failed, because the checkpoint file cannot be loaded**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**IS Service failed to load user defined Configuration file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The package restarted from checkpoint file. Package was configured to restart from checkpoint and it did**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**IS Service has attempted to stop a running package**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**SQL Server 2008 Integration Services - Rules (non-alerting)**

**SSIS 2008: Pipeline: Rows Written**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSIS 2008: Pipeline: Buffers Spooled**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSIS 2008: Pipeline: Rows Read**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SQL Server 2008 Integration Services - Tasks**

**Stop SQL Integration Services Service**

Stop SQL Integration Services Service.  
Note that all SQL Express editions support only SQL Server Import and Export Wizard, along with Built-in data source connectors.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Integration Services Service**

Start SQL Integration Services Service.  
Note that all SQL Express editions support only SQL Server Import and Export Wizard, along with Built-in data source connectors.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2008 Integration Services Group**

A group containing all SQL Server 2008 Integration Services

**SQL Server 2008 Integration Services Group - Discoveries**

**MSSQL 2008: Populate SQL Server 2008 Integration Services Group**

This discovery rule populates SQL Server 2008 Integration Services Group with all SQL Server 2008 Integration Services.

**SQL Server 2008 Mirroring Groups Group**

A group containing all SQL Server 2008 Mirroring groups

**SQL Server 2008 Mirroring Groups Group - Discoveries**

**MSSQL 2008: Populate SQL Server 2008 Mirroring Groups Group**

This discovery rule populates SQL Server 2008 Mirroring Groups Group group with all SQL Server 2008 Mirroring Groups.

**SQL Server 2008 R2 DB Engine Group**

A group containing all instances of Microsoft SQL Server 2008 R2 database engines

**SQL Server 2008 R2 DB Engine Group - Discoveries**

**Populate Microsoft SQL Server 2008 R2 Instance Group**

This object discovery populates SQL Server 2008 R2 Instance Group with all SQL Server 2008 R2 DB Engine.

**SQL Server 2008 Reporting Services**

An installation of Microsoft SQL Server 2008 Reporting Services

**SQL Server 2008 Reporting Services - Discoveries**

**Discover SQL Server 2008 Reporting Services (Windows Server)**

This object discovery discovers all instances of SQL Server 2008 Reporting Services. By default, all instances are discovered and monitored.

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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 | |  |
|  |  |  |

**SQL Server 2008 Reporting Services - Unit monitors**

**SQL Server Reporting Services Windows Service**

This monitor checks the status of the SQL Reporting Services service.  
Note that SQL Server Reporting Services Windows service is not supported by 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 | | 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 | |  |
|  |  |  |

**SQL Server 2008 Reporting Services - Tasks**

**Stop SQL Reporting Services Service**

Stop SQL Reporting Services Service.  
Note that SQL Server Reporting Services Windows service is not supported by any edition of SQL Server Express, except SQL Server Express with Advanced Services.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Reporting Services Service on Cluster**

Start SQL Reporting Services Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Reporting Services Service on Cluster**

Stop SQL Reporting Services Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Reporting Services Service**

Start SQL Reporting Services Service.  
Note that SQL Server Reporting Services Windows service is not supported by any edition of SQL Server Express, except SQL Server Express with Advanced Services.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server Alerts Scope Group**

SQL Server Alerts Scope Group contains SQL Server objects which can throw alerts.

**SQL Server Alerts Scope Group - Discoveries**

**MSSQL 2008: Alerts Scope Group Seed Discovery**

This object discovery populates the Alerts Scope group to contain all SQL Server 2008 Installation Seeds.

**SQL Server Event Log Collection Target**

This object is used to collect errors from event log of computers that have SQL Server components.

**SQL Server Event Log Collection Target - Discoveries**

**SQL Server 2008 Event Log Collection Target Discovery**

This discovery rule discovers an event log collection target for a Microsoft SQL Server 2008. This object is used to collect module errors from event log of computers that have SQL Server 2008 components.

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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 | |  |
|  |  |  |

**SQL Server Event Log Collection Target - Rules (alerting)**

**MSSQL 2008: Discovery warning**

The rule traces problematic discovery workflows 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 2008: Discovery failed**

The rule traces failed discovery workflows and generates error 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. | 2 | |  |
|  |  |  |

**SQL Server Express 2008 DB Engine Group**

A group containing all instances of Microsoft SQL Server Express 2008 database engines.

**SQL Server Express 2008 DB Engine Group - Discoveries**

**MSSQL 2008: Populate SQL Server Express 2008 Instance Group**

This discovery rule populates the SQL Server Express 2008 Instance group with all SQL Server 2008 Express DB Engines.

# Appendix: SQL Server 2012 Management Pack Objects and Workflows

**[Deprecated] SQL Server 2012 Distributor**

All Microsoft SQL Server 2012 distributors. The distributor is a component used in SQL Server Replication; it is considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2012 Distributor - Discoveries**

**[Deprecated] Discover Replication Components**

This object discovery discovers all SQL Server Replication components on an SQL Server 2012 DB Engine. The discovery is disabled by default. Considered to be obsolete in this Management Pack.

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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 | |  |
|  |  |  |

**[Deprecated] SQL Server 2012 Distributor - Dependency (rollup) monitors**

**Database Performance (rollup)**

This monitor rolls up performance state from SQL databases to SQL Distributor.

**Database Availability (rollup)**

This monitor rolls up availability state from SQL databases to SQL Distributor.

**[Deprecated] SQL Server 2012 Publication**

All Microsoft SQL Server 2012 replication publications. Considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2012 Publication - Discoveries**

**[Deprecated] SQL Server 2012 Replication Publications and Subscriptions Discovery Provider**

This object discovery discovers replication publications and subscriptions for each SQL Server 2012 database. The discovery is disabled by default. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] SQL Server 2012 Publisher**

All Microsoft SQL Server 2012 publishers. The publisher is a component used in SQL Server Replication; it is considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2012 Publisher - Discoveries**

**[Deprecated] Discover Replication Components**

This object discovery discovers all SQL Server Replication components on an SQL Server 2012 DB Engine. The discovery is disabled by default. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] SQL Server 2012 Replication Computers**

A group containing all Windows computers running Microsoft SQL Server 2012 involved in the replication. Considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2012 Replication Computers - Discoveries**

**[Deprecated] Populate Microsoft SQL Server 2012 Replication Computers Group**

This object discovery populates SQL Server 2012 Replication Component computer group with all computers that are running an instance of SQL Server 2012 DB Engine and have some replication components configured. Considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2012 Subscription**

All Microsoft SQL Server 2012 replication subscriptions. Considered to be obsolete in this Management Pack.

**[Deprecated] SQL Server 2012 Subscription - Discoveries**

**[Deprecated] SQL Server 2012 Replication Publications and Subscriptions Discovery Provider**

This object discovery discovers replication publications and subscriptions for each SQL Server 2012 database. The discovery is disabled by default. Considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Always On Seed**

**Always On Seed - Discoveries**

**MSSQL 2012: Always On Seed Discovery**

This discovery is used to define which machines have Always On enabled.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Frequency in seconds |  | 14400 | |  |
|  |  |  |

**Always On Seed - Rules (alerting)**

**Always On discovery script failed rule**

This rule detects event Id 4101 and creates an alert

|  |  |  |
| --- | --- | --- |
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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 | |  |
|  |  |  |

**Availability Group**

**Availability Group - Discoveries**

**MSSQL 2012: General Always On Discovery**

Discovery of Always On objects

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Group - Dependency (rollup) monitors**

**Availability Replicas Connection**

Availability Replicas Connection

**Availability Group Online**

Availability Group Online

**Availability Group Automatic Failover**

Availability Group Automatic Failover

**Availability Databases Configuration**

Rolls up all Availability Databases configuration monitors to the Availability Group.

**Availability Databases Security**

Rolls up all Availability Databases security monitors to the Availability Group.

**WSFC Cluster**

WSFC Cluster State monitor

**Availability Replicas Role**

Availability Replicas Role

**Availability Databases Availability**

Rolls up all Availability Databases availability monitors to the Availability Group.

**Synchronous Replicas Data Synchronization**

Synchronous Replicas Data Synchronization

**Availability Group Extended Health State**

Availability Group Extended Health State monitor

**Availability Databases Performance**

Rolls up all Availability Databases performance monitors to the Availability Group.

**Availability Replicas Data Synchronization**

Availability Replicas Data Synchronization

**Availability Group - Console Tasks**

**SQL Server Management Studio**

Open SQL Server Management Studio and connect to Primary Replica of target Availability Group.

**SQL Server PowerShell**

Open SQLPS console and connect to Primary Replicas of target Availability Group.

**Availability Group Critical Policy**

Custom User Policy which has Availability Group as Facet and one of the error categories as Policy Category.

**Availability Group Critical Policy - Discoveries**

**MSSQL 2012: General Custom User Policy Discovery**

Discovery of Custom User Policies for Always On objects

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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 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Group Critical Policy - Unit monitors**

**Availability Group Health Policy**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Group Health**

**Availability Group Health - Unit monitors**

**Availability Replicas Connection monitor**

Availability Replicas Connection

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Replicas Data Synchronization monitor**

Availability Replicas Data Synchronization

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Synchronous Replicas Data Synchronization monitor**

Synchronous Replicas Data Synchronization

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Group Automatic Failover monitor**

Availability Group Automatic Failover

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Group Online monitor**

Availability Group Online

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Replicas Role monitor**

Availability Replicas Role

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**WSFC Cluster monitor**

WSFC Cluster monitor

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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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Group Health - Aggregate monitors**

**Availability Group Extended Health State**

Availability Group Extended Health Aggregate State monitor

**Availability Group Health - Dependency (rollup) monitors**

**Availability Group Warning Policies**

Availability Group Health Warning Custom User Policies State monitor

**Availability Group Critical Policies**

Availability Group Health Critical Custom User Policies State monitor

**Availability Group Warning Policy**

Custom User Policy which has Availability Group as Facet and one of the warning categories as Policy Category.

**Availability Group Warning Policy - Unit monitors**

**Availability Group Health Policy**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Replica**

**Availability Replica - Unit monitors**

**Availability Replica Connection**

Availability Replica Connection

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Replica Join State**

Availability Replica Join State

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Replica Data Synchronization**

Availability Replica Data Synchronization

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Replica Role**

Availability Replica Role

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Replica - Aggregate monitors**

**Availability Replica Extended Health State**

Availability Replica Extended Health Aggregate State monitor

**Availability Replica - Dependency (rollup) monitors**

**Availability Replica Warning Policies**

Availability Replica Warning Custom User Policies State monitor

**Availability Replica Critical Policies**

Availability Replica Critical Custom User Policies State monitor

**Availability Replica - Rules (alerting)**

**MSSQL 2012: Availability Replica Role Changed**

This error occurs when Availability replica changes its role.

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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 | |  |
|  |  |  |

**Availability Replica - Rules (non-alerting)**

**Flow Control / sec**

Number of flow controls enabled for this replica per second

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Bytes Sent to Replica / sec**

The number of database message bytes enqueued to be send over the network to this replica. The bytes include messages for all databases in the AG.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Bytes Sent to Transport / sec**

The total number of bytes send over the network to the replica

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Flow Control Time**

The number of milliseconds flow control was enabled to this replica within the last second

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Receives from Replica / sec**

Total number of messages received from this replica for the AG

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Sends to Transport / sec**

Number of messages sent over the network to this replica. This account for all the messages sent from this replica including control messages.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Sends to Replica / sec**

Number of messages enqueued to be send over the network to this replica

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Bytes Received from Replica / sec**

Total number of bytes received from this replica over the network for the AG

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Resent Messages / sec**

The rate per second to get acknowledgements for messages sent to the replica

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Availability Replica - Console Tasks**

**Forced Failover**

Open SQLPS console and fail over to target Availability Replica that will make this replica to the new primary of availability group. In this task -AllowDataLoss parameter is used.

**SQL Server PowerShell**

Open SQLPS console and connect to target Availability Replica.

**SQL Server Management Studio**

Open SQL Server Management Studio and connect to target Availability Replica.

**Manual Failover**

Open SQLPS console and fail over to target Availability Replica that will make this replica to the new primary of availability group.

**Availability Replica Critical Policy**

Custom User Policy which has Availability Replica as Facet and one of the error categories as Policy Category.

**Availability Replica Critical Policy - Unit monitors**

**Availability Replica Health Policy**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Replica Warning Policy**

Custom User Policy which has Availability Replica as Facet and one of the warning categories as Policy Category.

**Availability Replica Warning Policy - Unit monitors**

**Availability Replica Health Policy**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Database Critical Policy**

Custom User Policy which has Database as Facet and one of the error categories as Policy Category.

**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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Database Replica**

This is representation of Database Replica State SMO object

**Database Replica - Discoveries**

**MSSQL 2012: Database Replicas Always On Discovery**

Discovery of database replica Always On objects

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Database Replica - Unit monitors**

**Availability Database Suspension State**

Availability Database Suspension State

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Database Data Synchronization**

Availability Database Data Synchronization

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Availability Database Join State**

Availability Database Join State

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Database Replica - Aggregate monitors**

**Database Replica Extended Health State**

Database Replica Extended Health Aggregate State monitor

**Database Replica - Dependency (rollup) monitors**

**Database Replica Critical Policies**

Database Replica Critical Custom User Policies State monitor

**Database Replica Warning Policies**

Database Replica Warning Custom User Policies State monitor

**Database Replica - Rules (alerting)**

**MSSQL 2012: Database Replica Role Changed**

This error occurs when Database replica changes its role.

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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 | |  |
|  |  |  |

**Database Replica - Rules (non-alerting)**

**Recovery Queue**

Amount of log records in the log files of the secondary replica that has not yet been redone.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Total Log requiring undo**

Total kilobytes of log that must be undone.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Log Send Queue**

The size of the log send queue on this replica.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Redo Bytes Remaining**

The amount of log bytes remaining to be redone to finish the reverting phase.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Transaction Delay**

The total time for all transactions waited on the secondary acknowledgement.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Redo blocked/sec**

Number of times the REDO thread was blocked in this database since this database was brought ONLINE.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Log Remaining for undo**

The amount of log that need to be undone in KB.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Mirrored Write Transactions / sec**

The number of transactions processed through synchronization commits. Dividing transaction delay by mirrored transactions to get delay per transaction.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Redone Bytes / sec**

The rate at which log records are redone on the secondary.

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| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Log Bytes Received / sec**

The number of log bytes received by this replica. This is valid only on the secondary

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**File Bytes Received / sec**

The number of filestream bytes received by from this replica. This is valid only on the secondary

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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 | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**Database Replica - Console Tasks**

**Suspend Data Movement**

Open SQLPS console and suspend data movement for target Database Replica

**Resume Data Movement**

Open SQLPS console and resume data movement for target Database Replica

**SQL Server PowerShell**

Open SQLPS console and connect to Availability Replica of target Database Replica.

**SQL Server Management Studio**

Open SQL Server Management Studio and connect to Availability Replica of target Database Replica.

**Database Replica Critical Policy**

Custom User Policy which has Database Replica State as Facet and one of the error categories as Policy Category.

**Database Replica Critical Policy - Unit monitors**

**Database Replica Health Policy**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Database Replica Warning Policy**

Custom User Policy which has Database Replica State as Facet and one of the warning categories as Policy Category.

**Database Replica Warning Policy - Unit monitors**

**Database Replica Health Policy**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Database Warning Policy**

Custom User Policy which has Database as Facet and one of the warning categories as Policy Category.

**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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Group of Availability Groups**

A group containing all Availability Groups of Microsoft SQL Server 2012

**Group of Availability Groups - Discoveries**

**Populate SQL Availability Group**

This discovery rule populates the Availability Group.

**Group of Availability Groups - Dependency (rollup) monitors**

**Availability Group Security Rollup**

Availability Group Security Rollup

**Availability Group Availability Rollup**

Availability Group Availability Rollup

**Availability Group Configuration Rollup**

Availability Group Configuration Rollup

**Availability Group Rollup**

Availability Group Performance Rollup

**Group of Availability Replicas**

A group containing all Availability Replicas of Microsoft SQL Server 2012

**Group of Availability Replicas - Discoveries**

**Populate SQL Availability Replica Group**

This discovery rule populates the Availability Replica Group.

**Group of Availability Replicas - Dependency (rollup) monitors**

**Availability Replica Availability Rollup**

Availability Replica Availability Rollup

**Availability Replica Rollup**

Availability Replica Performance Rollup

**Availability Replica Security Rollup**

Availability Replica Security Rollup

**Availability Replica Configuration Rollup**

Availability Replica Configuration Rollup

**Group of Database Replicas**

A group containing all Database Replicas of Microsoft SQL Server 2012

**Group of Database Replicas - Discoveries**

**Populate SQL Database Replica Group**

This discovery rule populates the Database Replica Group.

**Group of Database Replicas - Dependency (rollup) monitors**

**Database Replica Rollup**

Database Replica Performance Rollup

**Database Replica Configuration Rollup**

Database Replica Configuration Rollup

**Database Replica Security Rollup**

Database Replica Security Rollup

**Database Replica Availability Rollup**

Database Replica Availability Rollup

**MSSQL 2012: Availability Database**

This object represents Availability Database object.

**MSSQL 2012: Availability Database - Discoveries**

**MSSQL 2012: Database Replicas Always On Discovery**

Discovery of database replica Always On objects

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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 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2012: Availability Database - Dependency (rollup) monitors**

**Availability Database Backup Status (rollup)**

This monitor is a dependency (rollup) monitor. The monitor checks availability of a full database backup and its age as reported by Microsoft SQL Server; it does not apply any logic regarding the replicas preferred for the backup.

**MSSQL 2012: Availability Database Health**

A hidden object, which is used to roll up the health from agents to availability database level.

**MSSQL 2012: Availability Database Health - Discoveries**

**MSSQL 2012: Database Replicas Always On Discovery**

Discovery of database replica Always On objects

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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 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2012: Availability Database Health - Unit monitors**

**Availability Database Backup Status**

The monitor checks availability of a full database backup and its age as reported by Microsoft SQL Server; it does not apply any logic regarding the replicas preferred for the backup.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | False | | 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 | |  |
|  |  |  |

**SQL 2012 Mirrored DB**

Microsoft SQL Server 2012 Mirrored Database

**SQL 2012 Mirrored DB - Discoveries**

**Discover Mirrored Databases for a Database Engine**

This object discovery discovers all mirrored databases running for a given instance of SQL Server 2012 DB Engine. By default, all mirrored databases are discovered and monitored. You can override the discovery to exclude one or more databases from being discovered using the Exclude List. This list takes a comma-separated list of database names or \* wildcard to exclude all databases.

|  |  |  |
| --- | --- | --- |
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|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of database names that should be excluded from discovery. You can use the wildcard \* to exclude all databases. |  | | 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 | |  |
|  |  |  |

**SQL 2012 Mirrored DB - Unit monitors**

**Database Mirror Witness Status**

This monitor checks if database mirror witness is accessible.

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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 | |  |
|  |  |  |

**Database Mirror Status**

This monitor checks if database mirror is synchronized.

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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 | |  |
|  |  |  |

**SQL 2012 Mirrored DB Witness**

Microsoft SQL Server 2012 Mirrored Database Witness

**SQL 2012 Mirrored DB Witness - Discoveries**

**Discover Mirrored Databases Witnesses**

This object discovery discovers all mirrored databases witnesses running for a given instance of SQL Server 2012 DB Engine. By default witnesses for all mirrored databases are discovered and monitored. You can override the discovery to exclude one or more databases from being discovered using the Exclude List. This list takes a comma-separated list of database names or \* wildcard to exclude all databases.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of database names that should be excluded from discovery. You can use the wildcard \* to exclude all databases. |  | | 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 | |  |
|  |  |  |

**SQL 2012 Mirrored DB Witness - Unit monitors**

**Database Mirroring Partners Status**

This monitor checks if database mirror is synchronized.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL 2012 Mirroring Group**

Microsoft SQL Server 2012 Mirroring Group

**SQL 2012 Mirroring Group - Discoveries**

**Discover Mirrored Databases Witnesses**

This object discovery discovers all mirrored databases witnesses running for a given instance of SQL Server 2012 DB Engine. By default witnesses for all mirrored databases are discovered and monitored. You can override the discovery to exclude one or more databases from being discovered using the Exclude List. This list takes a comma-separated list of database names or \* wildcard to exclude all databases.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of database names that should be excluded from discovery. You can use the wildcard \* to exclude all databases. |  | | 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 | |  |
|  |  |  |

**Discover Mirrored Databases for a Database Engine**

This object discovery discovers all mirrored databases running for a given instance of SQL Server 2012 DB Engine. By default, all mirrored databases are discovered and monitored. You can override the discovery to exclude one or more databases from being discovered using the Exclude List. This list takes a comma-separated list of database names or \* wildcard to exclude all databases.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of database names that should be excluded from discovery. You can use the wildcard \* to exclude all databases. |  | | 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 | |  |
|  |  |  |

**SQL 2012 Mirroring Group - Dependency (rollup) monitors**

**Mirroring Witness Availability Rollup**

This monitor rolls up the Mirroring Witness availability health to the Mirroring Group.

**Mirrored Database Configuration Rollup**

This monitor rolls up the Mirrored Database configuration health to the Mirroring Group.

**Mirrored Database Availability Rollup**

This monitor rolls up the Mirrored Database availability health to the Mirroring Group.

**Mirrored Database Performance Rollup**

This monitor rolls up the Mirrored Database performance health to the Mirroring Group.

**SQL 2012 Mirroring Witness Role**

Microsoft SQL Server 2012 Database Mirroring Witness Role.

**SQL 2012 Mirroring Witness Role - Dependency (rollup) monitors**

**Mirroring Witness Availability Rollup**

This monitor rolls up the Mirroring Witness availability health to the Mirroring Witness Role.

**SQL Server 2012 Agent**

Microsoft SQL Server 2012 agent component

**SQL Server 2012 Agent - Discoveries**

**Discover SQL Server Agent for a DB Engine**

This object discovery discovers the SQL Server Agent for an instance of SQL Server 2012 DB Engine. There will always be one SQL Server Agent instance for each DB Engine instance.

**SQL Server 2012 Agent - Unit monitors**

**Long Running Jobs**

This monitor checks for long running SQL Agent jobs.   
Note that SQL Server Agent Windows 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | | Lower Threshold (minutes) | The lower threshold (in minutes) for this monitor. By default, exceeding this threshold will result in the monitor changing to at least a warning state. | 60 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold (minutes) | The upper threshold (in minutes) for this monitor. By default, exceeding this threshold will result in the monitor changing to a critical state. Being between this threshold and the lower threshold (inclusive) will result (by default) in the monitor being in a warning state. | 120 | |  |
|  |  |  |

**SQL Server Agent Windows 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 Agent - Dependency (rollup) monitors**

**Agent job performance (rollup)**

This monitor rolls up performance state from SQL Agent Jobs to SQL Agent.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express; there is no appropriate discovered object.

**Agent job availability (rollup)**

This monitor rolls up availability state from SQL Agent Jobs to SQL Agent.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express; there is no appropriate discovered object.

**SQL Server 2012 Agent - Rules (alerting)**

**An SQL job failed to complete successfully**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**[Deprecated] Agent shutdown. For more information, see the SQL Server Agent job history for job.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Step of a job caused an exception in the subsystem**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Agent could not be started**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Unable to connect to SQL Server**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Agent initiating self-termination**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Unable to re-open the local event log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] The agent is suspect. No response within last minutes.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Alert engine stopped due to unrecoverable local event log errors**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Job step cannot be run because the subsystem failed to load**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 Agent - Tasks**

**Stop SQL Agent Service**

Stop SQL Agent Service.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Agent Service on Cluster**

Stop SQL Agent Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Agent Service on Cluster**

Start SQL Agent Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Agent Service**

Start SQL Agent Service.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2012 Agent Job**

All Microsoft SQL Server 2012 agent jobs.

**SQL Server 2012 Agent Job - Discoveries**

**Discover SQL Server 2012 Agent Jobs**

This object discovery discovers all SQL Server 2012 Agent jobs. The discovery is disabled by default.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 600 | | Lower Threshold (minutes) | The lower threshold (in minutes) for this monitor. By default, exceeding this threshold will result in the monitor changing to at least a warning state. | 60 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold (minutes) | The upper threshold (in minutes) for this monitor. By default, exceeding this threshold will result in the monitor changing to a critical state. Being between this threshold and the lower threshold (inclusive) will result (by default) in the monitor being in a warning state. | 120 | |  |
|  |  |  |

**Last Run Status**

SQL 2012 Agent Job 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 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 | |  |
|  |  |  |

**SQL Server 2012 Agent Job - Tasks**

**Start SQL Agent Service**

Start SQL Agent Service.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Agent Service on Cluster**

Start SQL Agent Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Agent Service on Cluster**

Stop SQL Agent Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Agent Service**

Stop SQL Agent Service.  
Note that SQL Server Agent Windows Service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2012 Agents Group**

A group containing all SQL Server 2012 agents

**SQL Server 2012 Agents Group - Discoveries**

**MSSQL 2012: Populate SQL Server 2012 Agents Group**

This discovery rule populates SQL Server 2012 Agents group with all SQL Server 2012 agents.

**SQL Server 2012 Analysis Services**

An installation of Microsoft SQL Server 2012 Analysis Services

**SQL Server 2012 Analysis Services - Discoveries**

**Discover SQL Server 2012 Analysis Services (Windows Server)**

This object discovery discovers all instances of SQL Server 2012 Analysis Services. By default, all instances are discovered and monitored.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 Analysis Services - Unit monitors**

**SQL Server Analysis Services Windows Service**

This monitor checks the status of the SQL Analysis Services service.  
Note that SQL Analysis Services service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 Analysis Services - Rules (alerting)**

**An error occurred while writing a trace event to the file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while writing a trace event to the rowset**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The configuration file could not be loaded**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The configuration file could not be saved**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while starting the query log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while starting the flight recorder**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Error reported from Message Manager.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The metadata object could not be loaded**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while stopping the query log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while starting the error log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The trace waited too long for the TCP rowset sender to finish.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The metadata object could not be linked.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while the query log table was being created**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The database cryptographic key could not be loaded**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The OLE DB provider reported an error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The metadata object could not be instantiated.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred when the service attempted to shrink the database connection pool**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while closing the trace output file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The operating system resource (thread) could not be created during the initialization of the lazy writer**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Background lazy processing failed due to an error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while data was being written to the query log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The service cannot be started**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The operating system resource (event) could not be created during initialization of the lazy writer.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while stopping the error log**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 Analysis Services - Rules (non-alerting)**

**SSAS 2012: Proc: Rows Written Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2012: Query: Average Time Per Query**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2012: Proc: Rows Read Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2012: Memory: Memory Limit High (KB)**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2012: Current Connections**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2012: Query: Bytes Sent Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2012: Data Mining Prediction: Concurrent DM Queries**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2012: Query: Rows Sent Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSAS 2012: Data Mining Model Processing: Current Models Processing**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SQL Server 2012 Analysis Services - Tasks**

**Stop SQL Analysis Services Service on Cluster**

Stop SQL Analysis Services Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Analysis Services Service on Cluster**

Start SQL Analysis Services Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Analysis Services Service**

Start SQL Analysis Services Service.  
Note that SQL Server Analysis Services Windows service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Analysis Services Service**

Stop SQL Analysis Services Service.  
Note that SQL Server Analysis Services Windows service is not supported by any edition of SQL Server Express.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2012 Computers**

A group containing all Windows computers that are running a component of Microsoft SQL Server 2012.

**SQL Server 2012 Computers - Discoveries**

**Populate Microsoft SQL Server 2012 Computer Group**

This object discovery populates SQL Server 2012 Computer Group with all computers that are running one or more components of SQL Server 2012.

**SQL Server 2012 Custom User Policy**

Custom User Policy object

**SQL Server 2012 Custom User Policy - Discoveries**

**SQL Server 2012 Database Custom User Policy Discovery**

Discovery of Custom User Policies for SQL Server 2012 Database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**SQL Server 2012 Databases Group**

A group containing all SQL Server 2012 databases

**SQL Server 2012 Databases Group - Discoveries**

**MSSQL 2012: Populate SQL Server 2012 Databases Group**

This discovery rule populates SQL Server 2012 Databases group with all SQL Server 2012 databases.

**SQL Server 2012 DB**

Microsoft SQL Server 2012 database

**SQL Server 2012 DB - Discoveries**

**Discover Databases for a Database Engine**

This object discovery discovers all databases running for a given instance of SQL Server 2012 DB Engine. By default, all databases are discovered and monitored. You can override the discovery to exclude one or more databases from being discovered using the Exclude List. This list takes a comma-separated list of database names or \* wildcard to exclude all databases.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of database names that should be excluded from discovery. You can use the wildcard \* to exclude all databases. |  | | 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 | |  |
|  |  |  |

**SQL Server 2012 DB - Unit monitors**

**Disk Read Latency**

Disk Read Latency monitor for 2012 DBs

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | If the parameter threshold exceeding count is greater or equal to the number of samples, then the monitor will be in a bad state | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:04 | | Threshold | Threshold | 40 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**Page Verify Configuration**

Monitors the page verify setting for the database.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | CHECKSUM | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Trustworthy Configuration**

Monitors the trustworthy setting for the database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Auto Close Configuration**

Monitors the auto close setting for the database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | true | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Disk Write Latency**

Disk Write Latency monitor for 2012 DBs

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | If the parameter threshold exceeding count is greater or equal to the number of samples, then the monitor will be in a bad state | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:04 | | Threshold | Threshold | 25 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**Transaction Log Free Space (%)**

Transaction Log Free Space (%) monitor for 2012 DBs

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | | Threshold | Alert threshold value | 10 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**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 all Log Shipping is not supported by any edition of SQL Server Express.

**DB Chaining Configuration**

Monitors the DB chaining setting for the database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Recovery Model Configuration**

Monitors the recovery model setting for the database.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | FULL | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Auto Update Statistics Configuration**

Monitors the auto update statistics setting for the database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | ON | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**SQL Server Windows Service**

This monitor checks the status of the SQL Database Engine service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**DB Total Space**

Monitors the space available in the database and on the media hosting the database in percentage terms. Note that this monitor does not count free space for FILESTREAM Filegroups.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | | Lower Threshold | The lower threshold for this monitor. | 10 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold | The upper threshold for this monitor. | 20 | |  |
|  |  |  |

**Database Status**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 3600 | | Synchronization Time | The synchronization time specified by using a 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 | |  |
|  |  |  |

**Database Backup Status**

This monitor checks the status of the database backup as reported by Microsoft® SQL Server™. Note that the monitor ignores Always On databases. Therefore, it is always "green" for those databases. For backups of Always On databases, use the dedicated monitors at the Availability Group.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Backup Period (days) | Backup Period | 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 | |  |
|  |  |  |

**Auto Create Statistics Configuration**

Monitors the auto create statistic setting for the database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | ON | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**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 all Log Shipping is not supported by any edition of SQL Server Express.

**DB Space Percentage Change**

Monitors for a large change in value of database free space over a set number of sample periods.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | | Lower Threshold | The lower threshold for this monitor. | 25 | | 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 | | Upper Threshold | The upper threshold for this monitor. | 45 | |  |
|  |  |  |

**Auto Shrink Configuration**

Monitors the auto shrink setting for the database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Auto Update Statistics Async Configuration**

Monitors the auto update statistics async setting for the database

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Disable Check for SQL Express | Enables or disables check for SQL Express version. | false | | Expected Value | To view the set of possible values, see "Configuration" section in the knowledge of this monitor. | OFF | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 43200 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**SQL Server 2012 DB - Aggregate monitors**

**Database Extended Health State**

Database Extended Health Aggregate State monitor

**DB Log File Space**

Monitors the aggregate space health for the log file.

**Automatic Configuration**

Monitors the aggregate automatic configuration health for the database.

**DB Space**

Monitors the aggregate space health for the database.

**Recovery Configuration**

Monitors the aggregate recovery configuration health for the database.

**External Access Configuration**

Monitors the aggregate external access configuration health for the database.

**SQL Server 2012 DB - Dependency (rollup) monitors**

**DB Filegroup Space (rollup)**

Rolls up Filegroup space health to database.

**Database Warning Policies**

Database Health Warning Custom User Policies State monitor

**DB FILESTREAM Filegroup Space (rollup)**

This dependency monitor rolls up the overall space health from Database FILESTREAM Filegroups to the Database.

**Database Critical Policies**

Database Health Critical Custom User Policies State monitor

**DB Log File Space (rollup)**

Monitors the space available in log files

**SQL Server 2012 DB - Rules (non-alerting)**

**MSSQL 2012: Collect DB Disk Read Latency (ms)**

SQL 2012 DB Disk Read Latency (ms) performance collection rule. Gets maximum read disk latency from all logical disk 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. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:04 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Active Connections count**

SQL 2012 DBs Active Connections 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. | 00:12 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Used Space (MB)**

SQL 2012 DBs Used Space (MB) performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2012: Collect Database Total Free Space (MB)**

The amount of space left in the 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 In-Memory OLTP data are ignored.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect Database Total Free Space (%)**

The amount of space left in the 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 In-Memory OLTP data are ignored.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Transactions per second count**

SQL 2012 DBs Transactions per second performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Disk Free Space (MB)**

SQL 2012 DBs Disk Free Space (MB) performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Active Requests count**

SQL 2012 DBs Active Requests performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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. | 00:10 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Active Transactions count**

SQL 2012 DBs Active Transactions performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Allocated Free Space (MB)**

SQL 2012 DBs Allocated Free Space (MB) performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Active Sessions count**

SQL 2012 DBs Active Sessions performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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. | 00:08 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**MSSQL 2012: Collect Transaction Log Free Space (%)**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Disk Write Latency (ms)**

SQL 2012 DB Disk Write Latency (ms) performance collection rule. Gets maximum Write disk latency from all logical disk 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. | 300 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:04 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**MSSQL 2012: Collect Database Allocated Size (MB)**

Collect database allocated size

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**SQL Server 2012 DB - Tasks**

**Set Database Offline**

Set Database Offline

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (sec) |  | 300 | |  |
|  |  |  |

**Check Disk (DBCC)**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Set Database Online**

Set Database Online

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (sec) |  | 300 | |  |
|  |  |  |

**Check Catalog (DBCC)**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Set Database to Emergency State**

Set Database to Emergency State

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout (sec) |  | 300 | |  |
|  |  |  |

**Check Database (DBCC)**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2012 DB - Console Tasks**

**SQL Profiler**

**SQL Management Studio**

**SQL Server 2012 DB Engine**

An installation of Microsoft SQL Server 2012 Database Engine. The database engine hosts databases and other SQL Server components.

**SQL Server 2012 DB Engine - Discoveries**

**Discover SQL Server 2012 Database Engines (Windows Server)**

This object discovery discovers all instances of SQL Server 2012 DB Engine running on Windows Servers. By default, all instances are discovered and monitored. You can override the discovery to exclude one or more instances from being discovered using the Exclude List. This list takes a comma-separated list of instances or \* wildcard to exclude all instances.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Exclude List | A comma-separated list of instances that should be excluded from discovery. You can use the wildcard \* to exclude all instances. |  | | 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 | |  |
|  |  |  |

**SQL Server 2012 DB Engine - Unit monitors**

**SQL Full-text Filter Daemon Launcher Service**

This monitor checks the status of the 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. This monitor is disabled by default. Please use overrides to enable it when necessary.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Page Life Expectancy**

Page Life Expectancy (s) for 2012 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | | Threshold | Threshold | 300 | |  |
|  |  |  |

**Average Wait Time**

Average Wait Time monitor for 2012 DBs

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | If the parameter threshold exceeding count is greater or equal to the number of samples, then the monitor will be in a bad state | 6 | | Threshold | Alert threshold value | 250 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 300 | |  |
|  |  |  |

**Service Pack Compliance**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 2012 | The minimal Service Pack level as per company policy. | 3 | |  |
|  |  |  |

**CPU Utilization (%)**

CPU Utilization (%) for 2012 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Cache Expiration Time | Specifies the maximum age of information from cache the workflow can use. May be omitted. | 43200 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Number of samples | If the parameter threshold exceeding count is greater or equal to the number of samples, then the monitor will be in a bad state | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:06 | | Threshold | Threshold | 95 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**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 | |  |
|  |  |  |

**SQL Re-Compilation**

SQL Re-Compilation for 2012 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | Number of samples to average before compare it with threshold | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:02 | | 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 | |  |
|  |  |  |

**SQL User Connections Performance**

This monitor analysis the user connections to the SQL database engine over time, and calculates a baseline over the initial learning period.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Inner Sensitivity | Inner Sensitivity Value for the baseline envelope |  | | Outer Sensitivity | Outer Sensitivity Value for the baseline envelope |  | |  |
|  |  |  |

**Blocking Sessions**

Monitors blocked sessions for an SQL instance.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | No | | 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 | 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. | 300 | | Wait Time (minutes) | The minimum process execution duration before considering it for Blocked SPIDs analysis. | 1 | |  |
|  |  |  |

**Buffer Cache Hit Ratio**

Buffer Cache Hit Ratio for 2012 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | | Threshold | Threshold | 0 | |  |
|  |  |  |

**Thread Count**

Thread Count for 2012 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | True | | Cache Expiration Time | Specifies the maximum age of information from cache the workflow can use. May be omitted. | 43200 | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Minimum Free Threads Count | Data Source determine a threshold and thread count for each DB Engine process, alert will be generated if threshold minus current thread count is less or equal than free thread count | 10 | | Number of samples | Number of samples to average before compare it with threshold | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:06 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**Stolen Server Memory**

Stolen Server Memory for 2012 DB Engine

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | Number of samples to average before compare it with threshold | 6 | | Synchronization Time | The synchronization time specified by using a 24-hour format. May be omitted. | 00:00 | | Threshold | If the ratio between Stolen Server Memory and SQL Server max memory is greater than this threshold alert will be generated | 70 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**SQL Server Windows Service**

This monitor checks the status of the SQL Database Engine service.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 60 | | Unavailable Time (seconds) | The minimum duration of service unavailability before considering it unhealthy. | 900 | |  |
|  |  |  |

**SQL Server 2012 DB Engine - Dependency (rollup) monitors**

**Database Performance (rollup)**

Rolls up database performance to instance.

**SQL Server 2012 DB Engine - Rules (alerting)**

**SQL Server 2012 DB Engine is restarted**

Detects SQL Server 2012 DB Engine restart.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | | Unavailable Time (seconds) | During this interval, try to catch the event service starting after the event service stop. | 900 | |  |
|  |  |  |

**SQL Server 2012 DB Engine - Rules (alerting)**

**Invalid reference to File ID**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Could not connect to server because it is not defined as a remote login at the server**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: An unknown full-text failure occurred**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not write a CHECKPOINT record in database because the log is out of space**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Database consistency errors found**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Table error: The text, ntext, or image node at page is not referenced**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not obtain information about Windows NT group/user**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not find Filegroup ID in sys.Filegroups for database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: Full-text catalog lacks sufficient disk space to complete this operation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot start service broker activation manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: IAM page is linked in the IAM chain for object**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Invalid reference to LOB page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**The Service Broker, or Database Mirroring Transport has started**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 0 | |  |
|  |  |  |

**Failed to initialize the Common Language Runtime (CLR) due to memory pressure**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker attempted to use an unsupported encryption algorithm**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot start service broker manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to initialize the Common Language Runtime (CLR) with HRESULT**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: The next pointer of refers to page. Neither its parent were encountered. Possible bad chain linkage**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Page is missing references from parent (unknown) and previous nodes. Possible bad root entry in sysindexes**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Internal Query Processor Error: The query processor could not obtain access to a required interface**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Database cannot be opened due to inaccessible files or insufficient memory or disk space. See the SQL Server error log for details**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**No slots are free to keep buffers for table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The log for database is not available**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not open tempdb. Cannot continue**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 2012: 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)".

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not create an instance of OLE DB provider**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not find FOREIGN KEY constraints for table, although the table is flagged as having them**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Permission denied on object**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Test failed. Slot overlaps with the prior row**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker cannot use RC4 encryption algorithm when running in FIPS compliance mode**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed. The workstation licensing limit for SQL Server access has already been reached**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Process Worker appears to be non-yielding on Scheduler**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Table error: Wrong PageId in the page header**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Database log file is full. Back up the transaction log for the database to free up some log space**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**CHECKTABLE terminated. A failure was detected while collecting facts.**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Slot, row extends into free space**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Logical page in database is already hashed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not create App Domain manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Starting without recovery**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to drop column from table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to open primary database file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Login failed: Password too short**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while reading the log for database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**SQL Server shutdown due to Ctrl-C or Ctrl-Break signal**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The Service Broker/Database Mirroring transport cannot listen on port because it is in use**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**MSDTC on server is unavailable**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: B-tree page has two parent nodes**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred while processing SQL Server Service Broker mirroring routes**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Distributed transaction aborted by MSDTC**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Assertion**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The query processor could not start the necessary thread resources for parallel query execution**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred in the SQL Server Service Broker message dispatcher**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Unexpected page type**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Attempt to fetch logical page that belongs to different object**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**A default full-text catalog does not exist in the database, or user does not have permission to perform this action**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Extent object is beyond the range of this database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed: Password cannot be used at this time**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Common Language Runtime (CLR) not installed properly**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not mark database as suspect. Getnext NC scan on sysdatabases.dbid failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: Failed to instantiate class. Make sure Msxml2.dll exists in the SQL Server installation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Unexpected end of file while reading beginning of backup set**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Optimized concurrent query limit has been exceeded**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An SQL Server Service Broker procedure output results**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 0 | |  |
|  |  |  |

**SQL Server could not allocate enough memory to start Service Broker task manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: cross-object chain linkage**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Enlist of MSDTC transaction failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker transmitter shut down due to an exception or a lack of memory**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**SQL Server terminating because of system shutdown**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Table error: Index node page refers to child page and previous child, but they were not encountered**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker could not query the FIPS compliance mode flag from the registry**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: The low key value on page is not the key value in the parent**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Log Backup Failed to Complete**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**CREATE DATABASE failed. Could not allocate enough disk space for a new database on the named disks**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Unique table computation failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The LSN passed to log scan in database is invalid**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Checksum failure while page in cache**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**OS Error occurred while performing I/O on page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**An error occurred in the SQL Server Service Broker, or Database Mirroring transport manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An SQL Server Service Broker cryptographic operation failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**RESTORE could not start database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**A security (SSPI) error occurred when connecting to another Service Broker, or Database Mirroring host**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Descriptor for object in database not found in the hash table during attempt to unhash it**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot determine the service account for SQL Server instance**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: Full-Text Search is not enabled for the current database. Use sp\_fulltext\_database to enable Full-Text Search**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to add column to table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed: Error during validation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: XML document could not be created, because server memory is low. Use sp\_xml\_removedocument to release XML documents**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Operating System error encountered**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Logical consistency error after performing I/O on page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**The SQL Server Service Broker, or Database Mirroring transport is disabled or not configured**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**XML: XML parsing error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: Could not find full-text index for database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Cross object linkage**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: Full-text catalog is in an unusable state. Drop and re-create this full-text catalog**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Error while undoing logged operation in database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: The text, ntext, or image node has wrong type**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred in the Service Broker manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not open referenced table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The user is not allowed to truncate the system table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Assertion**

|  |  |  |
| --- | --- | --- |
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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 | |  |
|  |  |  |

**The query has been canceled, because the estimated cost of this query exceeds the configured threshold. Contact the system administrator**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The I/O operation was successful after retry**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Page allocated to object was not seen. Page may be invalid or have incorrect object ID information in its header**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: The text, ntext, or image node at page is referenced by page not seen in the scan**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot start SQL Server Service Broker on Database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not recover database due to unresolved transaction outcomes**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed: Password too long**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: The high key value on page is not less than the low key value in the parent, slot of the next page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Column is not a valid complex column**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**AWE: Could not use Address Windowing Extensions because 'lock pages in memory' privilege was not granted**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Database Backup Failed To Complete**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not allocate space for object in database because the Filegroup is full**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: Failed to load Msxml2.dll**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Database consistency errors found and repaired**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Login failed: Account locked out**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: page is out of the range of this database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Login failed: Password expired**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Error recovering database. Could not connect to MSDTC to check the completion status of transaction**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Extra or invalid key**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Table missing or invalid key in index for the row:**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker Manager has shutdown**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | |  |
|  |  |  |

**An error occurred in the timer event cache**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An SQL Server Service Broker conversation closed due to an error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Parent node for page was not encountered**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Allocation page has invalid page header values.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred in the SQL Server Service Broker message transmitter**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Potential deadlocks exist on all schedulers on Node**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Commit of internal MSDTC transaction failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot start service broker manager due to operating system error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: XML error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Object, index, page Test failed. Slot - Offset is invalid**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to open database or transaction log file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**An SNI call failed during a Service Broker/Database Mirroring transport operation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**The Service Broker/Database Mirroring Transport could not listen for connections due to an error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: FOR XML EXPLICIT stack overflow occurred. Circular parent tag relationships are not allowed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Page is missing a reference from previous page. Possible chain linkage problem**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker, or Database Mirroring Transport stopped**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Recovery of database detected possible identity value inconsistency in table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: IAM chain linkage error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not open error log file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**One or more indexes are damaged and must be repaired or dropped**

|  |  |  |
| --- | --- | --- |
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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 | |  |
|  |  |  |

**Maximum limit for connections has been reached**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**CHECKTABLE processing of object encountered page twice. Possible internal error or allocation fault**

|  |  |  |
| --- | --- | --- |
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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 | |  |
|  |  |  |

**Login failed: Password too simple**

|  |  |  |
| --- | --- | --- |
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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 | |  |
|  |  |  |

**Cannot recover the master database. Exiting**

|  |  |  |
| --- | --- | --- |
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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 | |  |
|  |  |  |

**Cannot open backup device.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Page was not seen in the scan although its parent and previous refer to it. Check any previous errors**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Service Broker was 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 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Login failed: Password fails password filter DLL requirements**

|  |  |  |
| --- | --- | --- |
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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 | |  |
|  |  |  |

**Could not find CHECK constraint, although the table is flagged as having one**

|  |  |  |
| --- | --- | --- |
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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 | |  |
|  |  |  |

**.NET Framework runtime was shut down by user 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 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**App Domain failed to unload with error code**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Internal Query Processor Error: The query processor encountered an unexpected error during the processing of a remote query phase**

|  |  |  |
| --- | --- | --- |
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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 | |  |
|  |  |  |

**Table error: Address is not aligned**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot start service broker security manager**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Internal Query Processor Error: The query processor encountered an unexpected error during execution**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not create a statement object using OLE DB provider**

|  |  |  |
| --- | --- | --- |
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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 | |  |
|  |  |  |

**Table error: B-tree level mismatch, page does not match level from parent**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Internal Query Processor Error: The query processor ran out of stack space during query optimization**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The provider reported an unexpected catastrophic failure**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Cross object linkage. Page PGID->next is not in the same index**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to restore master database. Shutting down SQL Server**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Internal Query Processor Error: The query processor encountered an internal limit overflow**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Backup device failed - Operating system error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Database consistency check performed with no errors**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 0 | |  |
|  |  |  |

**Table error: The previous link on page does not match the previous page that the parent slot expects for this page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: B-tree chain linkage mismatch.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker or Database Mirror cryptographic call failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**[Deprecated] The Log Reader Agent for transactional replication encountered an invalid log sequence number (LSN) when reading the transaction log.**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Could not obtain exclusive lock on database**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to create App Domain**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not read and latch page**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to initialize the Common Language Runtime (CLR) with HRESULT**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**XML: Size of data chunk requested from the stream exceeds 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 | | Priority | Defines Alert Priority. | 1 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**An error occurred in the Service Broker queue rollback handler**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The MSSQL Server service terminated unexpectedly**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Page in its header is allocated by another object**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**IO Completion Listener Worker appears to be non-yielding on Node**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Conflict table does not exist**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Cannot open user default database. Login failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An error occurred in an SQL Server Service Broker/Database Mirroring transport connection endpoint**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Assertion**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failure occurred during database recovery**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | | Severity | Defines Alert Severity. | 2 | |  |
|  |  |  |

**Login failed: Password must be changed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table: No columns without statistics found**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to finish full-text operation. The Filegroup is empty, read-only, or not online**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Transaction was deadlocked on resources with another process, and has been chosen as the deadlock victim. Rerun the transaction**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**An SQL Server Service Broker dialog caught an error**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The server is too busy to perform the backup or restore operation**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not do cleanup for the killed process**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Full Text Search: Search on full-text catalog failed with unknown result**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table error: Cross object linkage: Parent page in object next refer to page not in the same object**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Service Broker, or Database Mirroring is running in FIPS compliance mode**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 0 | | Severity | Defines Alert Severity. | 0 | |  |
|  |  |  |

**A fatal error occurred in .NET Framework runtime**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Could not resolve the referenced column name in table**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Table: Creating statistics for the following columns**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Operating system error on a device**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**Failed to allocate memory for Common Language Runtime (CLR)**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 DB Engine - Rules (alerting)**

**[Deprecated] Run As Account does not exist on the target system, or does not have enough permissions**

A monitoring or discovery script doesn’t have permissions to connect to the database. This rule is considered to be obsolete in this Management Pack.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**SQL Server 2012 DB Engine - Rules (non-alerting)**

**MSSQL 2012: Broker Statistics: Enqueued Transport Messages Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Activation: Stored Procedures Invoked Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect SQL Compilations Per Second**

Collects the Windows "SQL Compilations Per Second" performance counter for each instance of SQL 2012 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Engine Thread Count**

SQL 2012 DB Engine Thread Count performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Cache Expiration Time | Specifies the maximum age of information from cache the workflow can use. May be omitted. | 43200 | | 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. | 00:06 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**MSSQL 2012: Collect Lock Timeouts Per Second**

Collects the Windows "Lock Timeouts Per Second" performance counter for each instance of SQL 2012 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Logins per Second**

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | |  |
|  |  |  |

**MSSQL 2012: Broker Transport: Open Connection Count**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect Number of Lockwaits Per Second**

Collects the Windows "Number of Lockwaits Per Second" performance counter for each instance of SQL 2012 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Transport: Message Fragment Receives Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Transport: Message Fragment Sends Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect Learning Data for SQL User Connections Monitor**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | | Sensitivity |  | 2.81 | |  |
|  |  |  |

**MSSQL 2012: Collect Number of Lockrequests Per Second**

Collects the Windows "Number of Lockrequests Per Second" performance counter for each instance of SQL 2012 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Statistics: SQL SENDs Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect Number of Deadlocks Per Second**

Collects the Windows "Number of Deadlocks Per Second" performance counter for each instance of SQL 2012 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect Buffer Cache Hit Ratio**

Collects the Windows "Buffer Cache Hit Ratio" performance counter for each instance of SQL 2012 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Engine Page Life Expectancy (s)**

SQL 2012 DB Engine Page Life Expectancy (s) performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Interval (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Statistics: Enqueued Messages Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: SQL User Connections**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 300 | |  |
|  |  |  |

**MSSQL 2012: Broker Transport: Send I/Os Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Engine CPU Utilization (%)**

SQL 2012 DB Engine CPU Utilization (%) performance collection rule.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Cache Expiration Time | Specifies the maximum age of information from cache the workflow can use. May be omitted. | 43200 | | 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. | 00:06 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**MSSQL 2012: Broker Activation: Task Limit Reached Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Activation: Task Limit Reached**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Statistics: Broker Transaction Rollbacks**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Activation: Tasks Aborted Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Transport: Receive I/Os Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Activation: Tasks Started Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Broker Statistics: SQL RECEIVEs Per Second**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect 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 2012 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Engine Average Wait Time (ms)**

SQL 2012 DB Engine Average Wait Time performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Engine Stolen Server Memory (MB)**

SQL 2012 DB Engine Stolen Server Memory (MB) performance collection rule

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | 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. | 00:00 | | Timeout (seconds) | Specifies the time the workflow is allowed to run before being closed and marked as failed. | 200 | |  |
|  |  |  |

**MSSQL 2012: Collect SQL Re-Сompilations Per Second**

Collects the Windows "SQL Recompiles Per Second" performance counter for each instance of SQL 2012 DB Engine.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SQL Server 2012 DB Engine - Tasks**

**Start SQL Agent Service on Cluster from DB Engine**

Start SQL Agent Service on Cluster from DB Engine.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Global Configuration Settings**

Global Configuration Settings

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Server Service**

Start SQL Server Service

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Server Service on Cluster**

Stop SQL Server Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Server Service on Cluster**

Start SQL Server Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Server Service**

Stop SQL Server Service

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Agent Service on Cluster from DB Engine**

Stop SQL Agent Service on Cluster from DB Engine.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2012 DB Engine - Console Tasks**

**SQL Profiler**

**SQL Management Studio**

**SQL Configuration Manager**

**SQL Server 2012 DB Engine Group**

A group containing all instances of Microsoft SQL Server 2012 database engines

**SQL Server 2012 DB Engine Group - Discoveries**

**Populate Microsoft SQL Server 2012 Instance Group**

This object discovery populates SQL Server 2012 Instance Group with all SQL Server 2012 DB Engine.

**SQL Server 2012 DB File**

Microsoft SQL Server 2012 database file

**SQL Server 2012 DB File - Discoveries**

**Discover Files**

This object discovery discovers the file information for each SQL Server 2012 Database. The discovery is used in specific databases or DB Engine instances, where a deeper file monitoring is required.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 DB File - Unit monitors**

**DB File Space**

Monitors the space available on a database file and on the media hosting the file in percentage terms.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Lower Threshold | The lower threshold for this monitor. | 10 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold | The upper threshold for this monitor. | 20 | |  |
|  |  |  |

**SQL Server 2012 DB File - Rules (non-alerting)**

**MSSQL 2012: Collect 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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect DB File Free Space (%)**

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 | | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect DB File Free Space (MB)**

The amount of space left in a file in megabytes. 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 | | 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 | |  |
|  |  |  |

**SQL Server 2012 DB Filegroup**

Microsoft SQL Server 2012 database Filegroup

**SQL Server 2012 DB Filegroup - Discoveries**

**Discover Filegroups**

This object discovery discovers the Filegroup information for each SQL Server 2012 Database.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 DB Filegroup - Aggregate monitors**

**DB Filegroup Space**

Monitors the aggregate space health for the Filegroup.

**SQL Server 2012 DB Filegroup - Dependency (rollup) monitors**

**DB File Space (rollup)**

Monitors the space available in a Filegroup.

**SQL Server 2012 DB Filegroup - Rules (non-alerting)**

**MSSQL 2012: Collect 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 | | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Filegroup Free Space (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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Filegroup Free Space (%)**

Collects free database Filegroup 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 | | 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 | |  |
|  |  |  |

**SQL Server 2012 DB FILESTREAM Filegroup**

Microsoft SQL Server 2012 FILESTREAM Filegroup

**SQL Server 2012 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | | Lower Threshold | The lower threshold for this monitor. | 10 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold | The upper threshold for this monitor. | 20 | |  |
|  |  |  |

**SQL Server 2012 DB FILESTREAM Filegroup - Rules (non-alerting)**

**MSSQL 2012: DB FILESTREAM Filegroup Free Space Total (MB)**

Collects free FILESTREAM Filegroup data container space in megabytes.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: 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 | | 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 | |  |
|  |  |  |

**SQL Server 2012 DB Log File**

Microsoft SQL Server 2012 database log file

**SQL Server 2012 DB Log File - Discoveries**

**Discover Files**

This object discovery discovers the file information for each SQL Server 2012 Database. The discovery is used in specific databases or DB Engine instances, where a deeper file monitoring is required.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 DB Log File - Unit monitors**

**DB Log File Space**

Monitors the space available on a log file and on the media hosting the log in percentage terms.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 900 | | Lower Threshold | The lower threshold for this monitor. | 10 | | Synchronization Time | The synchronization time specified by using a 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 | | Upper Threshold | The upper threshold for this monitor. | 20 | |  |
|  |  |  |

**SQL Server 2012 DB Log File - Rules (non-alerting)**

**MSSQL 2012: Collect 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Log File Free Space (%)**

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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect DB Log File Free Space (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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**MSSQL 2012: Collect 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | 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 | |  |
|  |  |  |

**SQL Server 2012 Installation Seed**

It is a seed for Microsoft SQL Server 2012 installation. This object indicates that the particular server computer contains Microsoft SQL Server 2012 installation.

**SQL Server 2012 Installation Seed - Discoveries**

**SQL Server 2012 DB Installation Discovery Source**

This object discovery discovers a seed for Microsoft SQL Server 2012 installation. This object indicates that the particular server computer contains Microsoft SQL Server 2012 installation.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Frequency in seconds |  | 14400 | |  |
|  |  |  |

**SQL Server 2012 Instance Group**

A group containing all SQL Server 2012 DB Engine Instances

**SQL Server 2012 Instance Group - Discoveries**

**MSSQL 2012: Populate SQL Server 2012 Instance Group**

This discovery rule populates SQL Server 2012 Instance group with all SQL Server 2012 DB Engines.

**SQL Server 2012 Integration Services**

An installation of Microsoft SQL Server 2012 Integration Services

**SQL Server 2012 Integration Services - Discoveries**

**Discover SQL Server 2012 Integration Services (Windows Server)**

This object discovery discovers if SQL Server 2012 Integrate Services is installed.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 14400 | |  |
|  |  |  |

**SQL Server 2012 Integration Services - Unit monitors**

**SQL Server Integration Services Windows Service**

This monitor checks the status of the SQL Integration Services service.  
Note that all SQL Express editions support only SQL Server Import and Export Wizard, along with Built-in data source connectors. There is no appropriate discovered object (service).

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 Integration Services - Rules (alerting)**

**IS Package Failed**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**IS Service failed to load user defined Configuration file**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**IS Service has attempted to stop a running package**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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. | 2 | |  |
|  |  |  |

**Package execution failed, because the checkpoint file cannot be loaded**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**The package restarted from checkpoint file. Package was configured to restart from checkpoint and it did**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 Integration Services - Rules (non-alerting)**

**SSIS 2012: Pipeline: Rows Written**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSIS 2012: Pipeline: Buffers Spooled**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SSIS 2012: Pipeline: Rows Read**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Generate Alerts | Defines whether the workflow generates an Alert. | No | | Frequency (seconds) | The recurring interval of time in seconds in which to run the workflow. | 900 | |  |
|  |  |  |

**SQL Server 2012 Integration Services - Tasks**

**Stop SQL Integration Services Service**

Stop SQL Integration Services Service.  
Note that all SQL Express editions support only SQL Server Import and Export Wizard, along with Built-in data source connectors.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Integration Services Service**

Start SQL Integration Services Service.  
Note that all SQL Express editions support only SQL Server Import and Export Wizard, along with Built-in data source connectors.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server 2012 Integration Services Group**

A group containing all SQL Server 2012 Integration Services

**SQL Server 2012 Integration Services Group - Discoveries**

**MSSQL 2012: Populate SQL Server 2012 Integration Services Group**

This discovery rule populates SQL Server 2012 Integration Services Group with all SQL Server 2012 Integration Services.

**SQL Server 2012 Mirroring Groups Group**

A group containing all SQL Server 2012 Mirroring groups

**SQL Server 2012 Mirroring Groups Group - Discoveries**

**MSSQL 2012: Populate SQL Server 2012 Mirroring Groups Group**

This discovery rule populates SQL Server 2012 Mirroring Groups Group group with all SQL Server 2012 Mirroring Groups.

**SQL Server 2012 Reporting Services**

An installation of Microsoft SQL Server 2012 Reporting Services

**SQL Server 2012 Reporting Services - Discoveries**

**Discover SQL Server 2012 Reporting Services (Windows Server)**

This object discovery discovers all instances of SQL Server 2012 Reporting Services. By default, all instances are discovered and monitored.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 Reporting Services - Unit monitors**

**SQL Server Reporting Services Windows Service**

This monitor checks the status of the SQL Reporting Services service.  
Note that SQL Server Reporting Services Windows service is not supported by any edition of SQL Server Express, except SQL Server Express with Advanced Services.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server 2012 Reporting Services - Tasks**

**Start SQL Reporting Services Service on Cluster**

Start SQL Reporting Services Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Start SQL Reporting Services Service**

Start SQL Reporting Services Service.  
Note that SQL Server Reporting Services Windows service is not supported by any edition of SQL Server Express, except SQL Server Express with Advanced Services.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Reporting Services Service on Cluster**

Stop SQL Reporting Services Service on Cluster.  
Note that all SQL Express editions do not support clustering.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**Stop SQL Reporting Services Service**

Stop SQL Reporting Services Service.  
Note that SQL Server Reporting Services Windows service is not supported by any edition of SQL Server Express, except SQL Server Express with Advanced Services.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **Name** | **Description** | **Default value** | | Enabled | Enables or disables the workflow. | Yes | | Timeout Seconds |  | 300 | |  |
|  |  |  |

**SQL Server Alerts Scope Group**

SQL Server Alerts Scope Group contains SQL Server objects which can throw alerts.

**SQL Server Alerts Scope Group - Discoveries**

**MSSQL 2012: Alerts Scope Group Seed Discovery**

This object discovery populates the Alerts Scope group to contain all SQL Server 2012 Installation Seeds.

**SQL Server Alerts Scope Group L3**

This object is used to collect alerts.

**SQL Server Alerts Scope Group L3 - Discoveries**

**Alerts Scope Group L3 Discovery**

This object discovery populates the Alerts Scope group L3 to contain all SQL Availability Groups.

**SQL Server Always On Availability Group**

This group contains Microsoft SQL Server Always On Availability components

**SQL Server Always On Availability Group - Dependency (rollup) monitors**

**Availability Group Configuration Rollup**

Availability Group Configuration Rollup

**Availability Group Rollup**

Availability Group Performance Rollup

**Availability Group Security Rollup**

Availability Group Security Rollup

**Availability Group Availability Rollup**

Availability Group Availability Rollup

**SQL Server Always On Availability Replicas Group**

This group contains Microsoft SQL Server Always On Availability Replica components

**SQL Server Always On Availability Replicas Group - Dependency (rollup) monitors**

**Availability Replica Configuration Rollup**

Availability Replica Configuration Rollup

**Availability Replica Rollup**

Availability Replica Performance Rollup

**Availability Replica Availability Rollup**

Availability Replica Availability Rollup

**Availability Replica Security Rollup**

Availability Replica Security Rollup

**SQL Server Always On Database Replicas Group**

This group contains Microsoft SQL Server Always On Database Replicas components

**SQL Server Always On Database Replicas Group - Dependency (rollup) monitors**

**Database Replica Configuration Rollup**

Database Replica Configuration Rollup

**Database Replica Availability Rollup**

Database Replica Availability Rollup

**Database Replica Security Rollup**

Database Replica Security Rollup

**Database Replica Rollup**

Database Replica Performance Rollup

**SQL Server Event Log Collection Target**

This object is used to collect errors from event log of computers that have SQL Server components.

**SQL Server Event Log Collection Target - Discoveries**

**SQL Server 2012 Event Log Collection Target Discovery**

This discovery rule discovers an event log collection target for a Microsoft SQL Server 2012. This object is used to collect module errors from event log of computers that have SQL Server 2012 components.

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | |  |  |  | | --- | --- | --- | | **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 | |  |
|  |  |  |

**SQL Server Event Log Collection Target - Rules (alerting)**

**MSSQL 2012: Discovery warning**

The rule traces problematic discovery workflows 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 2012: Discovery failed**

The rule traces failed discovery workflows 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 | |  |
|  |  |  |

**SQL Server Express 2012 DB Engine Group**

A group containing all instances of Microsoft SQL Server Express 2012 database engines.

**SQL Server Express 2012 DB Engine Group - Discoveries**

**MSSQL 2012: Populate SQL Server Express 2012 Instance Group**

This discovery rule populates SQL Server 2012 Express Instance group with all SQL Server Express 2012 DB Engines.

# Appendix: Reports

You can use the reports of SQL Server Management Pack to track trends or changes across days, weeks, or months. The following tables describe the available SQL Server reports.

## Capacity Information Reports

| **Report** | **Class** | **Description** |
| --- | --- | --- |
| SQL Broker Performance | Microsoft.SQLServer.2008.DBEngine  Microsoft.SQLServer.2012.DBEngine | Displays a chart with the following performance items:  **** Activation stored procedures invoked per second statistics  **** Activation task limit reached  **** Activation task limit reached per second statistics  **** Activation tasks aborted  **** Messages per second placed in the queue  **** Transport messages per second placed in the queue  **** SQL RECEIVEs per second  **** SQL SENDs per second  **** Tasks started per second  **** Total transaction rollbacks  **** Transport message fragment RECEIVEs per second  **** Transport message fragments  **** Transport open connection count statistics  **** Transport receive I/Os per second  **** Transport Send I/Os per second |
| SQL Server Database Counters | Microsoft.SQLServer.2008.DBEngine  Microsoft.SQLServer.2012.DBEngine | Displays a chart with the following performance items.  **** Buffer cache hit ratio  **** Lock timeouts per second  **** Number of deadlocks per second  **** SQL recompiles per second  **** Transactions per second |

## Operations Information Reports

| **Report** | **Class** | **Description** |
| --- | --- | --- |
| SQL Server Configuration | Microsoft.SQLServer.2008.DBEngine  Microsoft.SQLServer.2012.DBEngine | When the objects supplied are of the type SQL DB Engine, displays the following discovered properties.  **** Audit level  **** Authentication mode  **** Cluster  **** Enable error reporting  **** Error log location  **** Language  **** Master database location  **** Master database log location  **** Service pack version  **** Replication distribution database  **** Replication working directory  **** Version |
| SQL Server Lock Analysis | Microsoft.SQLServer.2008.DBEngine  Microsoft.SQLServer.2012.DBEngine | When the objects supplied are of the type SQL DB Engine, displays a chart with the performance item, Number of deadlocks per second. |
| SQL Server Service pack | Microsoft.SQLServer.2008.DBEngine  Microsoft.SQLServer.2012.DBEngine | When the objects supplied are of type SQL DB Engine or ServicePackVersion, displays the following discovered properties:  **** Service Pack Version  **** Version |
| SQL User Activity | Microsoft.SQLServer.2008.DBEngine  Microsoft.SQLServer.2012.DBEngine | For each selected object, displays a chart with the performance item, Logins per second. Data is aggregated to days of a month. |
| Top 5 Deadlocked Databases | Microsoft.SQLServer.2008.DBEngine  Microsoft.SQLServer.2012.DBEngine | Displays a chart with the top five deadlocked databases and a table detailing the databases and their counter values. |
| User Connections by Day | Microsoft.SQLServer.2008.DBEngine  Microsoft.SQLServer.2012.DBEngine | When the objects supplied are of type SQL DB Engine, displays a chart for each selected object with the performance item, SQL user connections. |
| User Connections by Peak Hours | Microsoft.SQLServer.2008.DBEngine  Microsoft.SQLServer.2012.DBEngine | When the objects supplied are of the type SQL DB Engine, displays a chart for each selected object with the performance item, SQL user connections. Data is aggregated to days of a month. |

## Trend Information Reports

| **Report** | **Class** | **Description** |
| --- | --- | --- |
| SQL Database Space Report | Microsoft.SQLServer.2008.DBEngine  Microsoft.SQLServer.2012.DBEngine | When the objects supplied are of the type SQL Database or a type derived from SQL Database, displays a chart for each selected object with the following performance items:  **** Database free space in MB  **** Database free space in percentage  **** Database space in MB  **** Transaction log free space in MB  **** Transaction log free space in percentage  **** Transaction log space in MB  Data is aggregated to days of a month. |

# Appendix: Deadlocks Event Log Rules

## Microsoft SQL Server 2008

* Microsoft.SQLServer.2008.MSDTC\_on\_server\_\_is\_unavailable\_1\_5\_Rule eventID: 8501
* Microsoft.SQLServer.2008.Could\_not\_create\_a\_statement\_object\_using\_OLE\_DB\_provider\_1\_5\_Rule eventID: 7305
* Microsoft.SQLServer.2008.Could\_not\_create\_an\_instance\_of\_OLE\_DB\_provider\_1\_5\_Rule eventID: 7302
* Microsoft.SQLServer.2008.SQL\_Server\_Service\_Broker\_or\_Database\_Mirroring\_Transport\_stopped\_5\_Rule eventID: 9691
* Microsoft.SQLServer.2008.SQL\_Server\_SQL\_Server\_Service\_Broker\_attempted\_to\_use\_an\_unsupported\_encryption\_algorithm\_5\_Rule eventID: 28060
* Microsoft.SQLServer.2008.SQL\_Server\_Service\_Broker\_transmitter\_shut\_down\_due\_to\_an\_exception\_or\_a\_lack\_of\_memory\_5\_Rule eventID: 28073
* Microsoft.SQLServer.2008.An\_error\_occurred\_in\_the\_Service\_Broker\_manager\_5\_Rule eventID: 9645
* Microsoft.SQLServer.2008.The\_Service\_Broker\_Database\_Mirroring\_Transport\_could\_not\_listen\_for\_connections\_due\_to\_an\_error\_5\_Rule eventID: 9693
* Microsoft.SQLServer.2008.SQL\_Server\_Service\_Broker\_or\_Database\_Mirroring\_is\_running\_in\_FIPS\_compliance\_mode\_5\_Rule eventID: 28077
* Microsoft.SQLServer.2008.An\_error\_occurred\_while\_processing\_SQL\_Server\_Service\_Broker\_mirroring\_routes\_5\_Rule eventID: 9789
* Microsoft.SQLServer.2008.An\_SQL\_Server\_Service\_Broker\_dialog\_caught\_an\_error\_5\_Rule eventID: 9736
* Microsoft.SQLServer.2008.A\_SQL\_Server\_Service\_Broker\_cryptographic\_operation\_failed\_5\_Rule eventID: 9641
* Microsoft.SQLServer.2008.Cannot\_start\_service\_broker\_activation\_manager\_5\_Rule eventID: 9701
* Microsoft.SQLServer.2008.SQL\_Server\_Service\_Broker\_could\_not\_query\_the\_FIPS\_compliance\_mode\_flag\_from\_the\_registry\_5\_Rule eventID: 28076
* Microsoft.SQLServer.2008.Cannot\_start\_SQL\_Server\_Service\_Broker\_on\_Database\_5\_Rule eventID: 9697
* Microsoft.SQLServer.2008.The\_SQL\_Server\_Service\_Broker\_or\_Database\_Mirroring\_transport\_is\_disabled\_or\_not\_configured\_5\_Rule eventID: 9666
* Microsoft.SQLServer.2008.Cannot\_start\_service\_broker\_manager\_5\_Rule eventID: 9694
* Microsoft.SQLServer.2008.SQL\_Server\_Service\_Broker\_Manager\_has\_shutdown\_5\_Rule eventID: 9689
* Microsoft.SQLServer.2008.Service\_Broker\_was\_not\_able\_to\_allocate\_memory\_for\_cryptographic\_operations\_5\_Rule eventID: 9634
* Microsoft.SQLServer.2008.An\_SNI\_call\_failed\_during\_a\_Service\_Broker\_Database\_Mirroring\_transport\_operation\_1\_5\_Rule eventID: 8471
* Microsoft.SQLServer.2008.Cannot\_start\_service\_broker\_manager\_due\_to\_operating\_system\_error\_5\_Rule eventID: 28002
* Microsoft.SQLServer.2008.A\_SQL\_Server\_Service\_Broker\_procedure\_output\_results\_5\_Rule eventID: 9724
* Microsoft.SQLServer.2008.An\_error\_occurred\_in\_the\_SQL\_Server\_Service\_Broker\_message\_transmitter\_5\_Rule eventID: 28072
* Microsoft.SQLServer.2008.SQL\_Server\_Service\_Broker\_cannot\_use\_RC4\_encryption\_algorithm\_when\_running\_in\_FIPS\_compliance\_mode\_5\_Rule eventID: 28078
* Microsoft.SQLServer.2008.An\_error\_occurred\_in\_the\_Service\_Broker\_queue\_rollback\_handler\_5\_Rule eventID: 8405
* Microsoft.SQLServer.2008.SQL\_Server\_cannot\_start\_the\_Service\_Broker\_event\_handler\_5\_Rule eventID: 9696
* Microsoft.SQLServer.2008.An\_error\_occurred\_in\_the\_SQL\_Server\_Service\_Broker\_or\_Database\_Mirroring\_transport\_manager\_5\_Rule eventID: 9643
* Microsoft.SQLServer.2008.An\_error\_occurred\_in\_a\_SQL\_Server\_Service\_Broker\_Database\_Mirroring\_transport\_connection\_endpoint\_1\_5\_Rule eventID: 9642
* Microsoft.SQLServer.2008.The\_Service\_Broker\_Database\_Mirroring\_transport\_cannot\_listen\_on\_port\_because\_it\_is\_in\_use\_5\_Rule eventID: 9692
* Microsoft.SQLServer.2008.Cannot\_start\_service\_broker\_security\_manager\_5\_Rule eventID: 9698
* Microsoft.SQLServer.2008.An\_error\_occurred\_in\_the\_timer\_event\_cache\_5\_Rule eventID: 9646
* Microsoft.SQLServer.2008.SQL\_Server\_could\_not\_allocate\_enough\_memory\_to\_start\_Service\_Broker\_task\_manager\_5\_Rule eventID: 9695
* Microsoft.SQLServer.2008.SQL\_Server\_Service\_Broker\_or\_Database\_Mirror\_cryptographic\_call\_failed\_5\_Rule eventID: 9650
* Microsoft.SQLServer.2008.An\_error\_occurred\_in\_the\_SQL\_Server\_Service\_Broker\_message\_dispatcher\_5\_Rule eventID: 9644
* Microsoft.SQLServer.2008.SQLServerAgent\_could\_not\_be\_started\_1\_5\_Rule eventID: 103
* Microsoft.SQLServer.2008.Unable\_to\_re\_open\_the\_local\_eventlog\_1\_5\_Rule eventID: 313
* Microsoft.SQLServer.2008.Alert\_engine\_stopped\_due\_to\_unrecoverable\_local\_eventlog\_errors\_1\_5\_Rule eventID: 317
* Microsoft.SQLServer.2008.Step\_of\_a\_job\_caused\_an\_exception\_in\_the\_subsystem\_1\_5\_Rule eventID: 209
* Microsoft.SQLServer.2008.A\_SQL\_job\_failed\_to\_complete\_successfully\_1\_5\_Rule eventID: 208
* Microsoft.SQLServer.2008.The\_agent\_is\_suspect.\_No\_response\_within\_last\_minutes\_1\_5\_Rule eventID: 20554
* Microsoft.SQLServer.2008.Job\_step\_cannot\_be\_run\_because\_the\_subsystem\_failed\_to\_load\_1\_5\_Rule eventID: 212
* Microsoft.SQLServer.2008.Unable\_to\_connect\_to\_SQL\_Server\_1\_5\_Rule eventID: 207
* Microsoft.SQLServer.2008.The\_configuration\_file\_could\_not\_be\_loaded\_5\_Rule eventID: 21
* Microsoft.SQLServer.2008.RESTORE\_could\_not\_start\_database\_1\_5\_Rule eventID: 3167
* Microsoft.SQLServer.2008.Unexpected\_end\_of\_file\_while\_reading\_beginning\_of\_backup\_set\_1\_5\_Rule eventID: 3208
* Microsoft.SQLServer.2008.Cannot\_open\_backup\_device.\_\_1\_5\_Rule eventID: 3201
* Microsoft.SQLServer.2008.Database\_cannot\_be\_opened\_due\_to\_inaccessible\_files\_or\_insufficient\_memory\_or\_disk\_space.\_See\_the\_SQL\_Server\_errorlog\_for\_details\_1\_5\_Rule eventID: 945
* Microsoft.SQLServer.2008.CREATE\_DATABASE\_failed.\_Could\_not\_allocate\_enough\_disk\_space\_for\_a\_new\_database\_on\_the\_named\_disks\_1\_5\_Rule eventID: 1803
* Microsoft.SQLServer.2008.Could\_not\_obtain\_exclusive\_lock\_on\_database\_5\_Rule eventID: 1807
* Microsoft.SQLServer.2008.Full\_Text\_Search\_\_\_Search\_on\_full\_text\_catalog\_failed\_with\_unknown\_result\_1\_5\_Rule eventID: 7607
* Microsoft.SQLServer.2008.Full\_Text\_Search\_\_\_Full\_Text\_Search\_is\_not\_enabled\_for\_the\_current\_database.\_Use\_sp\_fulltext\_database\_to\_enable\_Full\_Text\_Search\_1\_5\_Rule eventID: 15601
* Microsoft.SQLServer.2008.Failed\_to\_finish\_full\_text\_operation.\_The\_filegroup\_is\_empty\_read\_only\_or\_not\_online\_5\_Rule eventID: 9964
* Microsoft.SQLServer.2008.Full\_Text\_Search\_\_\_An\_unknown\_full\_text\_failure\_occurred\_1\_5\_Rule eventID: 7608
* Microsoft.SQLServer.2008.Full\_Text\_Search\_\_\_Full\_text\_catalog\_lacks\_sufficient\_disk\_space\_to\_complete\_this\_operation\_1\_5\_Rule eventID: 7622
* Microsoft.SQLServer.2008.Full\_Text\_Search\_\_\_Full\_text\_catalog\_is\_in\_a\_unusable\_state.\_Drop\_and\_re\_create\_this\_full\_text\_catalog\_1\_5\_Rule eventID: 7624
* Microsoft.SQLServer.2008.A\_default\_full\_text\_catalog\_does\_not\_exist\_in\_the\_database\_or\_user\_does\_not\_have\_permission\_to\_perform\_this\_action\_5\_Rule eventID: 9967
* Microsoft.SQLServer.2008.Full\_Text\_Search\_\_\_Could\_not\_find\_full\_text\_index\_for\_database\_1\_5\_Rule eventID: 7606
* Microsoft.SQLServer.2008.Transaction\_was\_deadlocked\_on\_resources\_with\_another\_process\_and\_has\_been\_chosen\_as\_the\_deadlock\_victim.\_Rerun\_the\_transaction\_1\_5\_Rule eventID: 1205
* Microsoft.SQLServer.2008.The\_provider\_reported\_an\_unexpected\_catastrophic\_failure\_1\_5\_Rule eventID: 10001
* Microsoft.SQLServer.2008.The\_query\_processor\_could\_not\_start\_the\_necessary\_thread\_resources\_for\_parallel\_query\_execution\_1\_5\_Rule eventID: 8642
* Microsoft.SQLServer.2008.IS\_Service\_has\_attempted\_to\_stop\_a\_running\_package\_5\_Rule eventID: 336
* Microsoft.SQLServer.2008.IS\_Service\_failed\_to\_load\_user\_defined\_Configuration\_file\_5\_Rule eventID: 272
* Microsoft.SQLServer.2008.Internal\_Query\_Processor\_Error\_\_The\_query\_processor\_ran\_out\_of\_stack\_space\_during\_query\_optimization\_1\_5\_Rule eventID: 8621
* Microsoft.SQLServer.2008.Internal\_Query\_Processor\_Error\_\_The\_query\_processor\_could\_not\_obtain\_access\_to\_a\_required\_interface\_1\_5\_Rule eventID: 8601
* Microsoft.SQLServer.2008.Internal\_Query\_Processor\_Error\_\_The\_query\_processor\_encountered\_an\_unexpected\_error\_during\_execution\_1\_5\_Rule eventID: 8630
* Microsoft.SQLServer.2008.Internal\_Query\_Processor\_Error\_\_The\_query\_processor\_encountered\_an\_unexpected\_error\_during\_the\_processing\_of\_a\_remote\_query\_phase\_1\_5\_Rule eventID: 8680
* Microsoft.SQLServer.2008.The\_query\_has\_been\_canceled\_because\_the\_estimated\_cost\_of\_this\_query\_exceeds\_the\_configured\_threshold.\_Contact\_the\_system\_administrator\_1\_5\_Rule eventID: 8649
* Microsoft.SQLServer.2008.Login\_failed\_\_Password\_too\_simple\_5\_Rule eventID: 18466
* Microsoft.SQLServer.2008.Login\_failed\_\_Password\_too\_short\_5\_Rule eventID: 18464
* Microsoft.SQLServer.2008.Login\_failed\_\_Error\_during\_validation\_5\_Rule eventID: 18468
* Microsoft.SQLServer.2008.Could\_not\_obtain\_information\_about\_Windows\_NT\_group\_user\_1\_5\_Rule eventID: 15404
* Microsoft.SQLServer.2008.Cannot\_open\_user\_default\_database.\_Login\_failed\_1\_5\_Rule eventID: 4064
* Microsoft.SQLServer.2008.Login\_failed\_\_Password\_fails\_password\_filter\_DLL\_requirements\_5\_Rule eventID: 18467
* Microsoft.SQLServer.2008.Cannot\_determine\_the\_service\_account\_for\_SQL\_Server\_instance\_1\_5\_Rule eventID: 14353
* Microsoft.SQLServer.2008.Permission\_denied\_on\_object\_1\_5\_Rule eventID: 229
* Microsoft.SQLServer.2008.Login\_failed\_\_Password\_cannot\_be\_used\_at\_this\_time\_5\_Rule eventID: 18463
* Microsoft.SQLServer.2008.Login\_failed\_\_Password\_too\_long\_5\_Rule eventID: 18465
* Microsoft.SQLServer.2008.Table\_error\_\_Page\_allocated\_to\_object\_was\_not\_seen.\_\_Page\_may\_be\_invalid\_or\_have\_incorrect\_object\_ID\_information\_in\_its\_header\_1\_5\_Rule eventID: 2533
* Microsoft.SQLServer.2008.Table\_error\_\_B\_tree\_level\_mismatch\_page\_does\_not\_match\_level\_from\_parent\_\_1\_5\_Rule eventID: 8931
* Microsoft.SQLServer.2008.CHECKTABLE\_processing\_of\_object\_encountered\_page\_twice.\_Possible\_internal\_error\_or\_allocation\_fault\_1\_5\_Rule eventID: 8973
* Microsoft.SQLServer.2008.Table\_error\_\_\_Unexpected\_page\_type\_\_1\_5\_Rule eventID: 8938
* Microsoft.SQLServer.2008.Table\_error\_\_Extra\_or\_invalid\_key\_1\_5\_Rule eventID: 8952
* Microsoft.SQLServer.2008.Table\_error\_\_cross\_object\_chain\_linkage\_1\_5\_Rule eventID: 8930
* Microsoft.SQLServer.2008.Table\_error\_\_Wrong\_PageId\_in\_the\_page\_header\_1\_5\_Rule eventID: 8909
* Microsoft.SQLServer.2008.Table\_error\_\_page\_is\_out\_of\_the\_range\_of\_this\_database\_1\_5\_Rule eventID: 8968
* Microsoft.SQLServer.2008.Conflict\_table\_\_does\_not\_exist\_1\_5\_Rule eventID: 21286
* Microsoft.SQLServer.2008.Table\_error\_\_Cross\_object\_linkage\_1\_5\_Rule eventID: 8925
* Microsoft.SQLServer.2008.CHECKTABLE\_terminated.\_A\_failure\_was\_detected\_while\_collecting\_facts.\_Possibly\_tempdb\_out\_of\_space\_or\_a\_system\_table\_is\_inconsistent.\_Check\_previous\_errors\_1\_5\_Rule eventID: 8921
* Microsoft.SQLServer.2008.Table\_error\_\_Column\_is\_not\_a\_valid\_complex\_column\_1\_5\_Rule eventID: 8960
* Microsoft.SQLServer.2008.Table\_error\_\_Page\_is\_missing\_a\_reference\_from\_previous\_page.\_Possible\_chain\_linkage\_problem\_1\_5\_Rule eventID: 8978
* Microsoft.SQLServer.2008.The\_Log\_Reader\_Agent\_for\_transactional\_replication\_encountered\_an\_invalid\_log\_sequence\_number\_\_LSN\_\_when\_reading\_the\_transaction\_log\_5\_Rule eventID: 18762
* Microsoft.SQLServer.2008.Table\_error\_\_Page\_was\_not\_seen\_in\_the\_scan\_although\_its\_parent\_and\_previous\_refer\_to\_it.\_Check\_any\_previous\_errors\_1\_5\_Rule eventID: 8976
* Microsoft.SQLServer.2008.Table\_error\_\_Cross\_object\_linkage\_\_Parent\_page\_in\_object\_next\_refer\_to\_page\_not\_in\_the\_same\_object\_1\_5\_Rule eventID: 8926
* Microsoft.SQLServer.2008.Table\_error\_\_B\_tree\_page\_has\_two\_parent\_nodes\_\_1\_5\_Rule eventID: 8937
* Microsoft.SQLServer.2008.Table\_error\_\_Slot\_row\_extends\_into\_free\_space\_\_1\_5\_Rule eventID: 8943
* Microsoft.SQLServer.2008.Table\_error\_\_Object\_index\_page\_Test\_failed.\_Slot\_\_\_Offset\_is\_\_invalid\_1\_5\_Rule eventID: 8941
* Microsoft.SQLServer.2008.Could\_not\_find\_filegroup\_ID\_in\_sys.filegroups\_for\_database\_5\_Rule eventID: 8932
* Microsoft.SQLServer.2008.The\_user\_is\_not\_allowed\_to\_truncate\_the\_system\_table\_1\_5\_Rule eventID: 4709
* Microsoft.SQLServer.2008.Failed\_to\_drop\_column\_\_from\_table\_\_1\_5\_Rule eventID: 21284
* Microsoft.SQLServer.2008.Table\_error\_\_Page\_is\_missing\_references\_from\_parent\_\_unknown\_\_and\_previous\_nodes.\_Possible\_bad\_root\_entry\_in\_sysindexes\_1\_5\_Rule eventID: 8979
* Microsoft.SQLServer.2008.Table\_error\_\_Page\_in\_its\_header\_is\_allocated\_by\_another\_object\_1\_5\_Rule eventID: 2534
* Microsoft.SQLServer.2008.Table\_error\_\_The\_text\_ntext\_or\_image\_node\_at\_page\_\_is\_referenced\_by\_page\_not\_seen\_in\_the\_scan\_1\_5\_Rule eventID: 8965
* Microsoft.SQLServer.2008.Table\_error\_\_\_Test\_failed.\_Slot\_overlaps\_with\_the\_prior\_row\_1\_5\_Rule eventID: 8942
* Microsoft.SQLServer.2008.Table\_error\_\_IAM\_page\_is\_linked\_in\_the\_IAM\_chain\_for\_object\_1\_5\_Rule eventID: 8959
* Microsoft.SQLServer.2008.Table\_error\_\_Extent\_object\_is\_beyond\_the\_range\_of\_this\_database\_1\_5\_Rule eventID: 2579
* Microsoft.SQLServer.2008.Table\_\_\_No\_columns\_without\_statistics\_found\_1\_5\_Rule eventID: 15013
* Microsoft.SQLServer.2008.Table\_error\_\_The\_high\_key\_value\_on\_page\_is\_not\_less\_than\_the\_low\_key\_value\_in\_the\_parent\_slot\_of\_the\_next\_page\_1\_5\_Rule eventID: 8934
* Microsoft.SQLServer.2008.Table\_error\_\_Allocation\_page\_has\_invalid\_\_page\_header\_values.\_\_1\_5\_Rule eventID: 8946
* Microsoft.SQLServer.2008.Table\_error\_\_IAM\_chain\_linkage\_error\_1\_5\_Rule eventID: 8969
* Microsoft.SQLServer.2008.Table\_error\_\_\_The\_next\_pointer\_of\_refers\_to\_page.\_Neither\_its\_parent\_were\_encountered.\_Possible\_bad\_chain\_linkage\_1\_5\_Rule eventID: 8981
* Microsoft.SQLServer.2008.Table\_error\_\_The\_text\_ntext\_or\_image\_node\_has\_wrong\_type\_1\_5\_Rule eventID: 8963
* Microsoft.SQLServer.2008.Table\_error\_\_The\_text\_ntext\_or\_image\_node\_at\_page\_is\_not\_referenced\_1\_5\_Rule eventID: 8964
* Microsoft.SQLServer.2008.Table\_error\_\_\_Address\_is\_not\_aligned\_1\_5\_Rule eventID: 8940
* Microsoft.SQLServer.2008.One\_or\_more\_indexes\_are\_damaged\_and\_must\_be\_repaired\_or\_dropped\_1\_5\_Rule eventID: 8956
* Microsoft.SQLServer.2008.Table\_error\_\_Cross\_object\_linkage.\_Page\_PGID\_next\_is\_not\_in\_the\_same\_index\_1\_5\_Rule eventID: 8982
* Microsoft.SQLServer.2008.Table\_error\_\_Parent\_node\_for\_page\_was\_not\_encountered\_1\_5\_Rule eventID: 8977
* Microsoft.SQLServer.2008.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\_th\_5\_Rule eventID: 8908
* Microsoft.SQLServer.2008.Table\_error\_\_Table\_missing\_or\_invalid\_key\_in\_index\_for\_the\_row\_\_1\_5\_Rule eventID: 8951
* Microsoft.SQLServer.2008.Unique\_table\_computation\_failed\_1\_5\_Rule eventID: 16959
* Microsoft.SQLServer.2008.Table\_\_Creating\_statistics\_for\_the\_following\_columns\_1\_5\_Rule eventID: 15018
* Microsoft.SQLServer.2008.Table\_error\_\_B\_tree\_chain\_linkage\_mismatch.\_\_1\_5\_Rule eventID: 8936
* Microsoft.SQLServer.2008.Failed\_to\_add\_column\_\_to\_table\_\_1\_5\_Rule eventID: 21285
* Microsoft.SQLServer.2008.Table\_error\_\_Index\_node\_page\_refers\_to\_child\_page\_and\_previous\_child\_but\_they\_were\_not\_encountered\_1\_5\_Rule eventID: 8980
* Microsoft.SQLServer.2008.Table\_error\_\_The\_low\_key\_value\_on\_page\_\_is\_not\_the\_key\_value\_in\_the\_parent\_1\_5\_Rule eventID: 8933
* Microsoft.SQLServer.2008.Table\_error\_\_The\_previous\_link\_on\_page\_does\_not\_match\_the\_previous\_page\_that\_the\_parent\_slot\_expects\_for\_this\_page\_1\_5\_Rule eventID: 8935
* Microsoft.SQLServer.2008.XML\_\_\_XML\_parsing\_error\_1\_5\_Rule eventID: 6603
* Microsoft.SQLServer.2008.XML\_\_\_XML\_document\_could\_not\_be\_created\_because\_server\_memory\_is\_low.\_Use\_sp\_xml\_removedocument\_to\_release\_XML\_documents\_1\_5\_Rule eventID: 6624
* Microsoft.SQLServer.2008.XML\_\_\_Size\_of\_data\_chunk\_requested\_from\_the\_stream\_exceeds\_allowed\_limit\_5\_Rule eventID: 6627
* Microsoft.SQLServer.2008.XML\_\_\_Failed\_to\_load\_Msxml2.dll\_1\_5\_Rule eventID: 6610
* Microsoft.SQLServer.2008.XML\_\_\_Failed\_to\_instantiate\_class.\_Make\_sure\_Msxml2.dll\_exists\_in\_the\_SQL\_Server\_installation\_1\_5\_Rule eventID: 6608
* Microsoft.SQLServer.2008.XML\_\_\_FOR\_XML\_EXPLICIT\_stack\_overflow\_occurred.\_Circular\_parent\_tag\_relationships\_are\_not\_allowed\_1\_5\_Rule eventID: 6805
* Microsoft.SQLServer.2008.XML\_\_\_XML\_error\_1\_5\_Rule eventID: 6600
* Microsoft.SQLServer.2008.Script\_Failed\_Database\_Login eventID: 4001
* Microsoft.SQLServer.2008.ReplicationAgentFailureRule eventID: 20536
* Microsoft.SQLServer.2008.FailedToCreateSubdirectoryUnderReplicationWorkingDirectoryRule eventID: 21330
* Microsoft.SQLServer.2008.ArticleUpdateSuccessfulRule eventID: 14025
* Microsoft.SQLServer.2008.BeginLSNSpecifiedForReplicationLogscanInvalidRule eventID: 18765
* Microsoft.SQLServer.2008.CouldNotCleanUpDistributionHistoryTablesRule eventID: 20553
* Microsoft.SQLServer.2008.LoginAccountIsNotInThePublicationAccessListRule eventID: 21049
* Microsoft.SQLServer.2008.ReplicationAgentSuccessRule eventID: 20540
* Microsoft.SQLServer.2008.AnotherLogReaderIsReplicatingDatabaseRule eventID: 18752
* Microsoft.SQLServer.2008.CouldNotAllocateMemoryForReplicationRule eventID: 18755
* Microsoft.SQLServer.2008.SchemaReplicationFailedRule eventID: 21198
* Microsoft.SQLServer.2008.SystemTablesForMergeReplicationCouldNotBeDroppedSuccessfullyRule eventID: 20007
* Microsoft.SQLServer.2008.ErrorOccurredWhileWaitingOnArticleCacheAccessEventRule eventID: 18776
* Microsoft.SQLServer.2008.InitialSnapshotForPublicationIsNotYetAvailableRule eventID: 21075
* Microsoft.SQLServer.2008.SpecifiedLSNForRepldoneLogscanOccursBeforeTheCurrentStartOfReplicationInTheLogRule eventID: 18768
* Microsoft.SQLServer.2008.CouldNotGetReplicationInformationForTableRule eventID: 18756
* Microsoft.SQLServer.2008.SubscriptionStatusCouldNotBeChangedRule eventID: 14070
* Microsoft.SQLServer.2008.LogReaderAgentEncounteredUnexpectedLogRecordOfTypeWhileProcessingDMLOperationRule eventID: 18775
* Microsoft.SQLServer.2008.ArticleCouldNotBeAddedToPublicationRule eventID: 20009
* Microsoft.SQLServer.2008.CouldNotRemovePublicationFromADRule eventID: 21369

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* Microsoft.SQLServer.2012.MSDTC\_on\_server\_\_is\_unavailable\_1\_5\_Rule eventID: 8501
* Microsoft.SQLServer.2012.Could\_not\_create\_a\_statement\_object\_using\_OLE\_DB\_provider\_1\_5\_Rule eventID: 7305
* Microsoft.SQLServer.2012.Could\_not\_create\_an\_instance\_of\_OLE\_DB\_provider\_1\_5\_Rule eventID: 7302
* Microsoft.SQLServer.2012.SQL\_Server\_Service\_Broker\_or\_Database\_Mirroring\_Transport\_stopped\_5\_Rule eventID: 9691
* Microsoft.SQLServer.2012.SQL\_Server\_SQL\_Server\_Service\_Broker\_attempted\_to\_use\_an\_unsupported\_encryption\_algorithm\_5\_Rule eventID: 28060
* Microsoft.SQLServer.2012.SQL\_Server\_Service\_Broker\_transmitter\_shut\_down\_due\_to\_an\_exception\_or\_a\_lack\_of\_memory\_5\_Rule eventID: 28073
* Microsoft.SQLServer.2012.An\_error\_occurred\_in\_the\_Service\_Broker\_manager\_5\_Rule eventID: 9645
* Microsoft.SQLServer.2012.The\_Service\_Broker\_Database\_Mirroring\_Transport\_could\_not\_listen\_for\_connections\_due\_to\_an\_error\_5\_Rule eventID: 9693
* Microsoft.SQLServer.2012.SQL\_Server\_Service\_Broker\_or\_Database\_Mirroring\_is\_running\_in\_FIPS\_compliance\_mode\_5\_Rule eventID: 28077
* Microsoft.SQLServer.2012.An\_error\_occurred\_while\_processing\_SQL\_Server\_Service\_Broker\_mirroring\_routes\_5\_Rule eventID: 9789
* Microsoft.SQLServer.2012.An\_SQL\_Server\_Service\_Broker\_dialog\_caught\_an\_error\_5\_Rule eventID: 9736
* Microsoft.SQLServer.2012.A\_SQL\_Server\_Service\_Broker\_cryptographic\_operation\_failed\_5\_Rule eventID: 9641
* Microsoft.SQLServer.2012.Cannot\_start\_service\_broker\_activation\_manager\_5\_Rule eventID: 9701
* Microsoft.SQLServer.2012.SQL\_Server\_Service\_Broker\_could\_not\_query\_the\_FIPS\_compliance\_mode\_flag\_from\_the\_registry\_5\_Rule eventID: 28076
* Microsoft.SQLServer.2012.Cannot\_start\_SQL\_Server\_Service\_Broker\_on\_Database\_5\_Rule eventID: 9697
* Microsoft.SQLServer.2012.The\_SQL\_Server\_Service\_Broker\_or\_Database\_Mirroring\_transport\_is\_disabled\_or\_not\_configured\_5\_Rule eventID: 9666
* Microsoft.SQLServer.2012.Cannot\_start\_service\_broker\_manager\_5\_Rule eventID: 9694
* Microsoft.SQLServer.2012.SQL\_Server\_Service\_Broker\_Manager\_has\_shutdown\_5\_Rule eventID: 9689
* Microsoft.SQLServer.2012.Service\_Broker\_was\_not\_able\_to\_allocate\_memory\_for\_cryptographic\_operations\_5\_Rule eventID: 9634
* Microsoft.SQLServer.2012.An\_SNI\_call\_failed\_during\_a\_Service\_Broker\_Database\_Mirroring\_transport\_operation\_1\_5\_Rule eventID: 8471
* Microsoft.SQLServer.2012.Cannot\_start\_service\_broker\_manager\_due\_to\_operating\_system\_error\_5\_Rule eventID: 28002
* Microsoft.SQLServer.2012.A\_SQL\_Server\_Service\_Broker\_procedure\_output\_results\_5\_Rule eventID: 9724
* Microsoft.SQLServer.2012.An\_error\_occurred\_in\_the\_SQL\_Server\_Service\_Broker\_message\_transmitter\_5\_Rule eventID: 28072
* Microsoft.SQLServer.2012.SQL\_Server\_Service\_Broker\_cannot\_use\_RC4\_encryption\_algorithm\_when\_running\_in\_FIPS\_compliance\_mode\_5\_Rule eventID: 28078
* Microsoft.SQLServer.2012.An\_error\_occurred\_in\_the\_Service\_Broker\_queue\_rollback\_handler\_5\_Rule eventID: 8405
* Microsoft.SQLServer.2012.SQL\_Server\_cannot\_start\_the\_Service\_Broker\_event\_handler\_5\_Rule eventID: 9696
* Microsoft.SQLServer.2012.An\_error\_occurred\_in\_the\_SQL\_Server\_Service\_Broker\_or\_Database\_Mirroring\_transport\_manager\_5\_Rule eventID: 9643
* Microsoft.SQLServer.2012.An\_error\_occurred\_in\_a\_SQL\_Server\_Service\_Broker\_Database\_Mirroring\_transport\_connection\_endpoint\_1\_5\_Rule eventID: 9642
* Microsoft.SQLServer.2012.The\_Service\_Broker\_Database\_Mirroring\_transport\_cannot\_listen\_on\_port\_because\_it\_is\_in\_use\_5\_Rule eventID: 9692
* Microsoft.SQLServer.2012.Cannot\_start\_service\_broker\_security\_manager\_5\_Rule eventID: 9698
* Microsoft.SQLServer.2012.An\_error\_occurred\_in\_the\_timer\_event\_cache\_5\_Rule eventID: 9646
* Microsoft.SQLServer.2012.SQL\_Server\_could\_not\_allocate\_enough\_memory\_to\_start\_Service\_Broker\_task\_manager\_5\_Rule eventID: 9695
* Microsoft.SQLServer.2012.SQL\_Server\_Service\_Broker\_or\_Database\_Mirror\_cryptographic\_call\_failed\_5\_Rule eventID: 9650
* Microsoft.SQLServer.2012.An\_error\_occurred\_in\_the\_SQL\_Server\_Service\_Broker\_message\_dispatcher\_5\_Rule eventID: 9644
* Microsoft.SQLServer.2012.SQLServerAgent\_could\_not\_be\_started\_1\_5\_Rule eventID: 103
* Microsoft.SQLServer.2012.Unable\_to\_re\_open\_the\_local\_eventlog\_1\_5\_Rule eventID: 313
* Microsoft.SQLServer.2012.Alert\_engine\_stopped\_due\_to\_unrecoverable\_local\_eventlog\_errors\_1\_5\_Rule eventID: 317
* Microsoft.SQLServer.2012.Step\_of\_a\_job\_caused\_an\_exception\_in\_the\_subsystem\_1\_5\_Rule eventID: 209
* Microsoft.SQLServer.2012.A\_SQL\_job\_failed\_to\_complete\_successfully\_1\_5\_Rule eventID: 208
* Microsoft.SQLServer.2012.The\_agent\_is\_suspect.\_No\_response\_within\_last\_minutes\_1\_5\_Rule eventID: 20554
* Microsoft.SQLServer.2012.Job\_step\_cannot\_be\_run\_because\_the\_subsystem\_failed\_to\_load\_1\_5\_Rule eventID: 212
* Microsoft.SQLServer.2012.Unable\_to\_connect\_to\_SQL\_Server\_1\_5\_Rule eventID: 207
* Microsoft.SQLServer.2012.The\_configuration\_file\_could\_not\_be\_loaded\_5\_Rule eventID: 21
* Microsoft.SQLServer.2012.RESTORE\_could\_not\_start\_database\_1\_5\_Rule eventID: 3167
* Microsoft.SQLServer.2012.Unexpected\_end\_of\_file\_while\_reading\_beginning\_of\_backup\_set\_1\_5\_Rule eventID: 3208
* Microsoft.SQLServer.2012.Cannot\_open\_backup\_device.\_\_1\_5\_Rule eventID: 3201
* Microsoft.SQLServer.2012.Database\_cannot\_be\_opened\_due\_to\_inaccessible\_files\_or\_insufficient\_memory\_or\_disk\_space.\_See\_the\_SQL\_Server\_errorlog\_for\_details\_1\_5\_Rule eventID: 945
* Microsoft.SQLServer.2012.CREATE\_DATABASE\_failed.\_Could\_not\_allocate\_enough\_disk\_space\_for\_a\_new\_database\_on\_the\_named\_disks\_1\_5\_Rule eventID: 1803
* Microsoft.SQLServer.2012.Could\_not\_obtain\_exclusive\_lock\_on\_database\_5\_Rule eventID: 1807
* Microsoft.SQLServer.2012.Full\_Text\_Search\_\_\_Search\_on\_full\_text\_catalog\_failed\_with\_unknown\_result\_1\_5\_Rule eventID: 7607
* Microsoft.SQLServer.2012.Full\_Text\_Search\_\_\_Full\_Text\_Search\_is\_not\_enabled\_for\_the\_current\_database.\_Use\_sp\_fulltext\_database\_to\_enable\_Full\_Text\_Search\_1\_5\_Rule eventID: 15601
* Microsoft.SQLServer.2012.Failed\_to\_finish\_full\_text\_operation.\_The\_filegroup\_is\_empty\_read\_only\_or\_not\_online\_5\_Rule eventID: 9964
* Microsoft.SQLServer.2012.Full\_Text\_Search\_\_\_An\_unknown\_full\_text\_failure\_occurred\_1\_5\_Rule eventID: 7608
* Microsoft.SQLServer.2012.Full\_Text\_Search\_\_\_Full\_text\_catalog\_lacks\_sufficient\_disk\_space\_to\_complete\_this\_operation\_1\_5\_Rule eventID: 7622
* Microsoft.SQLServer.2012.Full\_Text\_Search\_\_\_Full\_text\_catalog\_is\_in\_a\_unusable\_state.\_Drop\_and\_re\_create\_this\_full\_text\_catalog\_1\_5\_Rule eventID: 7624
* Microsoft.SQLServer.2012.A\_default\_full\_text\_catalog\_does\_not\_exist\_in\_the\_database\_or\_user\_does\_not\_have\_permission\_to\_perform\_this\_action\_5\_Rule eventID: 9967
* Microsoft.SQLServer.2012.Full\_Text\_Search\_\_\_Could\_not\_find\_full\_text\_index\_for\_database\_1\_5\_Rule eventID: 7606
* Microsoft.SQLServer.2012.Transaction\_was\_deadlocked\_on\_resources\_with\_another\_process\_and\_has\_been\_chosen\_as\_the\_deadlock\_victim.\_Rerun\_the\_transaction\_1\_5\_Rule eventID: 1205
* Microsoft.SQLServer.2012.The\_provider\_reported\_an\_unexpected\_catastrophic\_failure\_1\_5\_Rule eventID: 10001
* Microsoft.SQLServer.2012.The\_query\_processor\_could\_not\_start\_the\_necessary\_thread\_resources\_for\_parallel\_query\_execution\_1\_5\_Rule eventID: 8642
* Microsoft.SQLServer.2012.IS\_Service\_has\_attempted\_to\_stop\_a\_running\_package\_5\_Rule eventID: 336
* Microsoft.SQLServer.2012.IS\_Service\_failed\_to\_load\_user\_defined\_Configuration\_file\_5\_Rule eventID: 272
* Microsoft.SQLServer.2012.Internal\_Query\_Processor\_Error\_\_The\_query\_processor\_ran\_out\_of\_stack\_space\_during\_query\_optimization\_1\_5\_Rule eventID: 8621
* Microsoft.SQLServer.2012.Internal\_Query\_Processor\_Error\_\_The\_query\_processor\_could\_not\_obtain\_access\_to\_a\_required\_interface\_1\_5\_Rule eventID: 8601
* Microsoft.SQLServer.2012.Internal\_Query\_Processor\_Error\_\_The\_query\_processor\_encountered\_an\_unexpected\_error\_during\_execution\_1\_5\_Rule eventID: 8630
* Microsoft.SQLServer.2012.Internal\_Query\_Processor\_Error\_\_The\_query\_processor\_encountered\_an\_unexpected\_error\_during\_the\_processing\_of\_a\_remote\_query\_phase\_1\_5\_Rule eventID: 8680
* Microsoft.SQLServer.2012.The\_query\_has\_been\_canceled\_because\_the\_estimated\_cost\_of\_this\_query\_exceeds\_the\_configured\_threshold.\_Contact\_the\_system\_administrator\_1\_5\_Rule eventID: 8649
* Microsoft.SQLServer.2012.Login\_failed\_\_Password\_too\_simple\_5\_Rule eventID: 18466
* Microsoft.SQLServer.2012.Login\_failed\_\_Password\_too\_short\_5\_Rule eventID: 18464
* Microsoft.SQLServer.2012.Login\_failed\_\_Error\_during\_validation\_5\_Rule eventID: 18468
* Microsoft.SQLServer.2012.Could\_not\_obtain\_information\_about\_Windows\_NT\_group\_user\_1\_5\_Rule eventID: 15404
* Microsoft.SQLServer.2012.Cannot\_open\_user\_default\_database.\_Login\_failed\_1\_5\_Rule eventID: 4064
* Microsoft.SQLServer.2012.Login\_failed\_\_Password\_fails\_password\_filter\_DLL\_requirements\_5\_Rule eventID: 18467
* Microsoft.SQLServer.2012.Cannot\_determine\_the\_service\_account\_for\_SQL\_Server\_instance\_1\_5\_Rule eventID: 14353
* Microsoft.SQLServer.2012.Permission\_denied\_on\_object\_1\_5\_Rule eventID: 229
* Microsoft.SQLServer.2012.Login\_failed\_\_Password\_cannot\_be\_used\_at\_this\_time\_5\_Rule eventID: 18463
* Microsoft.SQLServer.2012.Login\_failed\_\_Password\_too\_long\_5\_Rule eventID: 18465
* Microsoft.SQLServer.2012.Table\_error\_\_Page\_allocated\_to\_object\_was\_not\_seen.\_\_Page\_may\_be\_invalid\_or\_have\_incorrect\_object\_ID\_information\_in\_its\_header\_1\_5\_Rule eventID: 2533
* Microsoft.SQLServer.2012.Table\_error\_\_B\_tree\_level\_mismatch\_page\_does\_not\_match\_level\_from\_parent\_\_1\_5\_Rule eventID: 8931
* Microsoft.SQLServer.2012.CHECKTABLE\_processing\_of\_object\_encountered\_page\_twice.\_Possible\_internal\_error\_or\_allocation\_fault\_1\_5\_Rule eventID: 8973
* Microsoft.SQLServer.2012.Table\_error\_\_\_Unexpected\_page\_type\_\_1\_5\_Rule eventID: 8938
* Microsoft.SQLServer.2012.Table\_error\_\_Extra\_or\_invalid\_key\_1\_5\_Rule eventID: 8952
* Microsoft.SQLServer.2012.Table\_error\_\_cross\_object\_chain\_linkage\_1\_5\_Rule eventID: 8930
* Microsoft.SQLServer.2012.Table\_error\_\_Wrong\_PageId\_in\_the\_page\_header\_1\_5\_Rule eventID: 8909
* Microsoft.SQLServer.2012.Table\_error\_\_page\_is\_out\_of\_the\_range\_of\_this\_database\_1\_5\_Rule eventID: 8968
* Microsoft.SQLServer.2012.Conflict\_table\_\_does\_not\_exist\_1\_5\_Rule eventID: 21286
* Microsoft.SQLServer.2012.Table\_error\_\_Cross\_object\_linkage\_1\_5\_Rule eventID: 8925
* Microsoft.SQLServer.2012.CHECKTABLE\_terminated.\_A\_failure\_was\_detected\_while\_collecting\_facts.\_Possibly\_tempdb\_out\_of\_space\_or\_a\_system\_table\_is\_inconsistent.\_Check\_previous\_errors\_1\_5\_Rule eventID: 8921
* Microsoft.SQLServer.2012.Table\_error\_\_Column\_is\_not\_a\_valid\_complex\_column\_1\_5\_Rule eventID: 8960
* Microsoft.SQLServer.2012.Table\_error\_\_Page\_is\_missing\_a\_reference\_from\_previous\_page.\_Possible\_chain\_linkage\_problem\_1\_5\_Rule eventID: 8978
* Microsoft.SQLServer.2012.The\_Log\_Reader\_Agent\_for\_transactional\_replication\_encountered\_an\_invalid\_log\_sequence\_number\_\_LSN\_\_when\_reading\_the\_transaction\_log\_5\_Rule eventID: 18762
* Microsoft.SQLServer.2012.Table\_error\_\_Page\_was\_not\_seen\_in\_the\_scan\_although\_its\_parent\_and\_previous\_refer\_to\_it.\_Check\_any\_previous\_errors\_1\_5\_Rule eventID: 8976
* Microsoft.SQLServer.2012.Table\_error\_\_Cross\_object\_linkage\_\_Parent\_page\_in\_object\_next\_refer\_to\_page\_not\_in\_the\_same\_object\_1\_5\_Rule eventID: 8926
* Microsoft.SQLServer.2012.Table\_error\_\_B\_tree\_page\_has\_two\_parent\_nodes\_\_1\_5\_Rule eventID: 8937
* Microsoft.SQLServer.2012.Table\_error\_\_Slot\_row\_extends\_into\_free\_space\_\_1\_5\_Rule eventID: 8943
* Microsoft.SQLServer.2012.Table\_error\_\_Object\_index\_page\_Test\_failed.\_Slot\_\_\_Offset\_is\_\_invalid\_1\_5\_Rule eventID: 8941
* Microsoft.SQLServer.2012.Could\_not\_find\_filegroup\_ID\_in\_sys.filegroups\_for\_database\_5\_Rule eventID: 8932
* Microsoft.SQLServer.2012.The\_user\_is\_not\_allowed\_to\_truncate\_the\_system\_table\_1\_5\_Rule eventID: 4709
* Microsoft.SQLServer.2012.Failed\_to\_drop\_column\_\_from\_table\_\_1\_5\_Rule eventID: 21284
* Microsoft.SQLServer.2012.Table\_error\_\_Page\_is\_missing\_references\_from\_parent\_\_unknown\_\_and\_previous\_nodes.\_Possible\_bad\_root\_entry\_in\_sysindexes\_1\_5\_Rule eventID: 8979
* Microsoft.SQLServer.2012.Table\_error\_\_Page\_in\_its\_header\_is\_allocated\_by\_another\_object\_1\_5\_Rule eventID: 2534
* Microsoft.SQLServer.2012.Table\_error\_\_The\_text\_ntext\_or\_image\_node\_at\_page\_\_is\_referenced\_by\_page\_not\_seen\_in\_the\_scan\_1\_5\_Rule eventID: 8965
* Microsoft.SQLServer.2012.Table\_error\_\_\_Test\_failed.\_Slot\_overlaps\_with\_the\_prior\_row\_1\_5\_Rule eventID: 8942
* Microsoft.SQLServer.2012.Table\_error\_\_IAM\_page\_is\_linked\_in\_the\_IAM\_chain\_for\_object\_1\_5\_Rule eventID: 8959
* Microsoft.SQLServer.2012.Table\_error\_\_Extent\_object\_is\_beyond\_the\_range\_of\_this\_database\_1\_5\_Rule eventID: 2579
* Microsoft.SQLServer.2012.Table\_\_\_No\_columns\_without\_statistics\_found\_1\_5\_Rule eventID: 15013
* Microsoft.SQLServer.2012.Table\_error\_\_The\_high\_key\_value\_on\_page\_is\_not\_less\_than\_the\_low\_key\_value\_in\_the\_parent\_slot\_of\_the\_next\_page\_1\_5\_Rule eventID: 8934
* Microsoft.SQLServer.2012.Table\_error\_\_Allocation\_page\_has\_invalid\_\_page\_header\_values.\_\_1\_5\_Rule eventID: 8946
* Microsoft.SQLServer.2012.Table\_error\_\_IAM\_chain\_linkage\_error\_1\_5\_Rule eventID: 8969
* Microsoft.SQLServer.2012.Table\_error\_\_\_The\_next\_pointer\_of\_refers\_to\_page.\_Neither\_its\_parent\_were\_encountered.\_Possible\_bad\_chain\_linkage\_1\_5\_Rule eventID: 8981
* Microsoft.SQLServer.2012.Table\_error\_\_The\_text\_ntext\_or\_image\_node\_has\_wrong\_type\_1\_5\_Rule eventID: 8963
* Microsoft.SQLServer.2012.Table\_error\_\_The\_text\_ntext\_or\_image\_node\_at\_page\_is\_not\_referenced\_1\_5\_Rule eventID: 8964
* Microsoft.SQLServer.2012.Table\_error\_\_\_Address\_is\_not\_aligned\_1\_5\_Rule eventID: 8940
* Microsoft.SQLServer.2012.One\_or\_more\_indexes\_are\_damaged\_and\_must\_be\_repaired\_or\_dropped\_1\_5\_Rule eventID: 8956
* Microsoft.SQLServer.2012.Table\_error\_\_Cross\_object\_linkage.\_Page\_PGID\_next\_is\_not\_in\_the\_same\_index\_1\_5\_Rule eventID: 8982
* Microsoft.SQLServer.2012.Table\_error\_\_Parent\_node\_for\_page\_was\_not\_encountered\_1\_5\_Rule eventID: 8977
* Microsoft.SQLServer.2012.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\_th\_5\_Rule eventID: 8908
* Microsoft.SQLServer.2012.Table\_error\_\_Table\_missing\_or\_invalid\_key\_in\_index\_for\_the\_row\_\_1\_5\_Rule eventID: 8951
* Microsoft.SQLServer.2012.Unique\_table\_computation\_failed\_1\_5\_Rule eventID: 16959
* Microsoft.SQLServer.2012.Table\_\_Creating\_statistics\_for\_the\_following\_columns\_1\_5\_Rule eventID: 15018
* Microsoft.SQLServer.2012.Table\_error\_\_B\_tree\_chain\_linkage\_mismatch.\_\_1\_5\_Rule eventID: 8936
* Microsoft.SQLServer.2012.Failed\_to\_add\_column\_\_to\_table\_\_1\_5\_Rule eventID: 21285
* Microsoft.SQLServer.2012.Table\_error\_\_Index\_node\_page\_refers\_to\_child\_page\_and\_previous\_child\_but\_they\_were\_not\_encountered\_1\_5\_Rule eventID: 8980
* Microsoft.SQLServer.2012.Table\_error\_\_The\_low\_key\_value\_on\_page\_\_is\_not\_the\_key\_value\_in\_the\_parent\_1\_5\_Rule eventID: 8933
* Microsoft.SQLServer.2012.Table\_error\_\_The\_previous\_link\_on\_page\_does\_not\_match\_the\_previous\_page\_that\_the\_parent\_slot\_expects\_for\_this\_page\_1\_5\_Rule eventID: 8935
* Microsoft.SQLServer.2012.XML\_\_\_XML\_parsing\_error\_1\_5\_Rule eventID: 6603
* Microsoft.SQLServer.2012.XML\_\_\_XML\_document\_could\_not\_be\_created\_because\_server\_memory\_is\_low.\_Use\_sp\_xml\_removedocument\_to\_release\_XML\_documents\_1\_5\_Rule eventID: 6624
* Microsoft.SQLServer.2012.XML\_\_\_Size\_of\_data\_chunk\_requested\_from\_the\_stream\_exceeds\_allowed\_limit\_5\_Rule eventID: 6627
* Microsoft.SQLServer.2012.XML\_\_\_Failed\_to\_load\_Msxml2.dll\_1\_5\_Rule eventID: 6610
* Microsoft.SQLServer.2012.XML\_\_\_Failed\_to\_instantiate\_class.\_Make\_sure\_Msxml2.dll\_exists\_in\_the\_SQL\_Server\_installation\_1\_5\_Rule eventID: 6608
* Microsoft.SQLServer.2012.XML\_\_\_FOR\_XML\_EXPLICIT\_stack\_overflow\_occurred.\_Circular\_parent\_tag\_relationships\_are\_not\_allowed\_1\_5\_Rule eventID: 6805
* Microsoft.SQLServer.2012.XML\_\_\_XML\_error\_1\_5\_Rule eventID: 6600
* Microsoft.SQLServer.2012.Script\_Failed\_Database\_Login eventID: 4001