Guide for System Center Management Pack   
for Windows Server 2016 Essentials Experience

Microsoft Corporation

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Guide for System Center Management Pack   
for Windows Server 2016 Essentials Experience

Windows Server Essentials Experience is a server role in Windows Server Technical Preview 2. Windows Server Essentials Experience can be used as an ideal first server. It can also be used as the member server in a multiserver environment for small businesses.

The System Center Management Pack for Windows Server Essentials Experience helps you monitor features that are specific to Windows Server Essentials Experience. It does not monitor features in the Windows Server 2016 operating system.

**Note**   The System Center Management Pack for Windows Server Essentials Experience provides monitoring functions for the health alert system in Windows Server Essentials Experience to help manage large numbers of servers running Windows Server Essentials Experience that are dedicated to various companies. The monitoring functions in this version only include critical alerts in the system.

Guide History

|  |  |
| --- | --- |
| Release Date | Changes |
| December 2015 | Original release of this guide |

Supported Configurations

The System Center Management Pack for Windows Server Essentials Experience requires System Center Operations Manager 2012 SP1 or plus. A dedicated Operations Manager management group is not required.

The following table details the supported configurations for the System Center Management Pack for Windows Server Essentials Experience.

|  |  |
| --- | --- |
| **Configuration** | **Support** |
| Windows Server Essentials Experience | Windows Server 2016 Essentials  Windows Server 2016 Standard  Windows Server 2016 Datacenter |
| Clustered servers | Not supported |
| Agentless monitoring | Not Supported |
| Virtual environment | Supported |

Prerequisites

The following steps need to be taken before you can use the management pack:

1. **Install System Center Operations Manager**.Download [System Center 2012 Operations Manager](http://go.microsoft.com/fwlink/?LinkId=260975) from the Microsoft TechNet Evaluation Center.
2. **Configure trust**.   
   Windows Server Essentials Experience is usually configured for a domain for the tenant, so it does not trust other domains or forests. Configure trust with the management server by using certificates.   
   For more information about using certificates, see [Agent and Agentless Monitoring](http://go.microsoft.com/fwlink/?LinkId=260976).
3. **Import the System Center Management Pack for Windows Server Essentials Experience**.
4. **Download a language pack (optional).**If you’re using a localized version of the management pack, you need to import the main management pack file and download the language pack.

The System Center Management Pack for Windows Server Essentials Experience includes the following files: Microsoft.Windows.WindowsServerEssentials.Threshold.Monitoring.mp

For details about the discoveries, rules, monitors, views, and reports that are included in System Center Management Pack for Windows Server Essentials Experience, see [Management Pack Contents](#zf475f3cc57b84a049d89cda7b1f37ba8) later in this document.

Monitoring Scenarios

This section includes information about the monitoring information that is provided by the System Center Management Pack for Windows Server Essentials Experience. It also includes information about rules and monitors that are associated with a given monitoring scenario. This information can help you customize scenarios for your unique business needs.

**Note**   If one of the monitoring rules fails, the system will be in an error state.

| **Monitoring scenario** | **Description** | **Associated rules and monitors** |
| --- | --- | --- |
| Server infrastructure | Checks critical health alerts on the server | * Renew the server certificate * Change Administrator password * The network user account was not created during Setup * The firewall is not configured correctly * Windows Firewall is not configured correctly * The Network Firewall is turned off * Virus protection is turned off, not installed, or not up-to-date * Spyware and unwanted software protection is turned off, not installed, or not up * Windows Update is turned off |
| Service integration |  | * One or more of your Office 365 subscriptions have expired * Microsoft Online authentication did not succeed * Adjust the minimum password length * Turn on the password complexity requirement * Cannot sync membership with Microsoft online services * The Windows Server Essentials Service cannot synchronize the user password to the online identity repository * Cannot synchronize user account passwords |
| Backup |  | * The backup hard drive does not have enough free space for the server backup * Server backup was not successful because a snapshot of the hard drive could not be taken * A scheduled backup did not finish successfully * Backup is paused for the server * One or more hard drives in the server backup are not connected |
| Storage |  | * One or more predefined server folders are missing * One or more server hard drives must be checked for errors * Free space is low on hard drives |
| Remote access |  | * Web domain name that is configuration did not succeed * VPN configuration did not succeed * The server is not connected to the Internet * A certificate is not available for Anywhere Access * The certificate for Anywhere Access has expired * The Web Server is not configured correctly * Remote Desktop Services is not configured correctly |
| Licensing |  | * Domain user limit exceeded * Forest trust check * The server needs to have all FSMO roles * Non-domain member check * Enforcement FSMO policies are violated * Enforcement load policies are violated |
| Key services | Checks a list of key services to ensure they’re in the running status | * Active Directory Domain Services error * One or more services are not running * Windows Server Essentials Health Service is not running * Windows Server Essentials Computer Backup service is not running * Windows Server Essentials Storage Service is not running |

Custom Management Packs

By default, Operations Manager saves all customizations, such as overrides, to the Default Management Pack. If customizations for all management packs are saved in the Default Management Pack and you need to delete a single management pack, you must first delete the Default Management Pack, which also deletes customizations to other management packs.

As a best practice, you should instead create a separate management pack for each sealed management pack that you want to customize.

Creating a new management pack to store customizations of each sealed management pack makes it easier to export the customizations from a test environment to a production environment. It also makes it easier to delete a management pack because you must delete any dependencies before you can delete a management pack.

When you create a management pack for the purpose of storing customized settings for a sealed management pack, it is helpful to base the name of the new management pack on the name of the management pack that it is customizing, for example, “System Center Management Pack for Windows Server Essentials Experience Customizations.”

**Notes**

* The System Center Management Pack for Windows Server Essentials Experience uses a local system account for security purposes.
* Tuning Performance Threshold Rules are not applicable for the System Center Management Pack for Windows Server Essentials Experience.

Management Pack Contents

The System Center Management Pack for Windows Server Essentials Experience discovers the object types that are described in the following tables.

**Note**   Not all of the objects are automatically discovered. You can create overrides to discover those objects that are not discovered automatically.

Discovery Information

| **Interval** | **Enabled** | **When to Enable** |
| --- | --- | --- |
| 4 hours | True | Should always be enabled |

Related Monitors

For monitors where the data source is an event in the System Center Management Pack for Windows Server Essentials Experience, the management pack uses Event ID 1280 to raise an alert and Event ID 1283 to clear an alert.

It uses *AlertDefinitionName* from the event data to distinguish different monitors due to the implementation of the health alert system in Windows Server Essentials Experience. Therefore, Data source in the following table refers to the *AlertDefinitionName.*

These rules apply to the monitor and data source in the following table:

* **Interval**: Default
* **Alert**: True:P1/S1
* **Reset behavior**: Automatic
* **Corresponding rule**: N/A
* **Enabled**: True
* **When to enable**: Upon recommendation

| **Monitor** | **Data source** |
| --- | --- |
| Renew the server certificate | RenewServerCertificate |
| Domain user limit exceeded | CheckEssentialsSKUUsersLimit |
| Free space is low on hard drives | CriticalLowDiskSpace |
| Change administrator password | ChangeBuiltInAdminPwdFailed |
| The server is not connected to the Internet | InternetConnectivity |
| A certificate is not available for Anywhere Access | CertificateMissing |
| The certificate for Anywhere Access has expired | CertificateExpiredManualFlow |
| The Web Server is not configured correctly | IisConfiguration |
| Remote Desktop Services is not configured correctly | TsGatewayConfiguration |
| The firewall is not configured correctly | FirewallConfiguration |
| Windows Firewall is turned off on the server | FirewallService |
| Forest trust check | FTCheckPassFailed |
| The server needs to have all FSMO roles | FSMOCompliance |
| Enforcement FSMO policies are violated | FSMOFailedCorrection |
| Enforcement load policies are violated | LoadPolicyFailed |
| Active Directory Domain Services error | ADError |
| The network firewall is turned off | FirewallDisabled |
| Virus protection is turned off, not installed, or not up-to-date | AntivirusDisabled |
| Spyware and unwanted software protection is turned off, not installed, or not up-to-date | AntispywareDisabled |
| Windows Update is turned off | WindowsUpdateDisabled |
| One or more hard drives in Server Backup are not connected | BackupTargetNotFound |
| The backup hard drive does not have enough free space for the server backup | BackupTargetMediaFull |
| Server backup was not successful because a drive snapshot could not be taken | VSSOutOfMemoryError |
| A scheduled backup did not finish successfully | ScheduledBackupFailed |
| Backup is paused for the server | TaskPausingOverdue |
| One or more predefined server folders are missing | DefaultShareFolderMissing |
| One or more server hard drives must be checked for errors | DirtyBitSet |
| One or more services are not running | AutoStartServicesServerOS |
| Windows Server Essentials Health Service is not running | WseHealthSvc |
| Windows Server Essentials Computer Backup service is not running | WseComputerBackupSvc |
| Windows Server Essentials Storage Service is not running | WseStorageSvc |
| One or more of your Office 365 subscriptions have expired | SubscriptionExpired |
| Microsoft Online authentication did not succeed | AuthenticationFailed |
| Turn on the password complexity requirement | PasswordComplexityConflict |
| Adjust the minimum password length | PasswordLengthConflict |
| Cannot sync membership with Microsoft online services | MSOGroupMembershipSyncFailed |
| The Windows Server Essentials Service cannot synchronize the user password to the online identity repository | PasswordSyncFailedServer |
| Cannot synchronize user account passwords | PasswordSyncRebootPending |
| Non-domain member check | NonDMCompliance |

Note

If you are using connectors, you can disable the monitor and enable its corresponding rule to enable alerts without changing the health status.

Related Rules

There is one rule, “Certificate lifecycle events of Windows Server Essentials Experience,” associated with this discovery.

This rule collects certificate lifecycle events for Windows ServerEssentials Experience, and it uses the Event ID range 768(0x300) to 1023(0x3FF).

Related Views

| **View Name** | **View Type** | **Description** |
| --- | --- | --- |
| Active alerts | AlertViewType | Displays all unresolved alerts for Windows Server Essentials Experience |
| Windows Server Essentials Experience state | StateViewType | Displays the state of Windows Server Essentials Experience |
| Certificate lifecycle events of Windows Server Essentials Experience | EventViewType | Displays certificate lifecycle events for Windows Server Essentials Experience |

Related Reports

There are no reports associated with this discovery.