

Guide for System Center Management Pack for Microsoft Windows Server 2012 Internet Information Services 8

Microsoft Corporation

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Send feedback or suggestions about this document to mpgfeed@microsoft.com. Please include the management pack guide name with your feedback.

The Operations Manager team encourages you to provide feedback on the management pack by providing a review on the management pack’s page in the [Management Pack Catalog](http://go.microsoft.com/fwlink/?LinkID=82105) (http://go.microsoft.com/fwlink/?LinkID=82105).

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# Guide for System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8

The System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 provides proactive and reactive monitoring of your Internet Information Services (IIS) 8 environment.

This management pack provides an early warning to administrators on issues that could affect services so that administrators can investigate and take corrective action, if necessary. The management pack helps to simplify the administrative environment by providing a single console for the administrator to perform a number of useful monitoring tasks. To help troubleshoot common issues, the management pack contains helpful product knowledge and a way to extend this knowledge through adding your own company or organization knowledge related to an issue.

## Document Version

This guide was written based on the 7.0.10249.2 version of the Internet Information Services 8 Management Pack.

## Getting the Latest Management Pack and Documentation

You can find the System Center 2012 Management Pack Guide for Microsoft Windows Server 2012 Internet Information Services 8 in the [System Center Operations Manager Catalog](http://go.microsoft.com/fwlink/?LinkId=82105).

## Guide History

|  |  |
| --- | --- |
| Release Date | Changes |
| September 2012 | Original release of this guide |
| July 2013 | Updates to Supported Configurations, Before you Import the Management Pack, and Appendix A: Monitors and Rules for Management Packs |
| October 2013 | Updates to Copyright |
| November 2016  | * Fixed bug: Web Management service was discovered even if it was not installed.
 |
| November 2018 | * Fixed Bug: False alerts when IIS is uninstalled.
 |
| October 2020 | * Fixed Bug: IIS Admin Service monitor false alerts
 |

## Changes in Version 7.0.10249.2

The October 2020 update (version 7.0.10249.2) of the System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 includes the following changes:

* Fixed Bugs:
	+ IIS Admin Service monitor false alerts
	+ List FTP Sites task in IIS 8 FTP Server Class is returning exit code “87” instead “0”

## Changes in Version 7.0.10249.0

The November 2018 update (version 7.0.10249.0) of the System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 includes the following changes:

* Fixed Bug: False alerts when IIS is uninstalled.
* Changed the target type for Start/Stop Web Management service to “IIS 8 Server Role Hosts WMSvc Service”

## Changes in Version 7.0.10247.0

The November 2016 update (version 7.0.10247.0) of the System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 includes the following changes:

 Fixed bug: Web Management service was discovered even if it was not installed

## Changes in Version 7.0.10165.0

The July 2013 update (version 7.0.10165.0) of the System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 includes the following changes:

 Added support for IIS 8.5 monitoring (on Windows Server 2012 R2).

 Noted that to monitor IIS 8.5, you must install the latest version of the Windows 2012 Base Operating System Management Pack.

 Revised monitors and rules in Appendix A: Monitors and Rules for Management Packs.

## Supported Configurations

The System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 supports monitoring Internet Information Services (IIS) 8 on Windows Server 2012, Internet Information Services (IIS) 8.5 on Windows Server 2012 R2, and supports 64-bit platforms. Additionally, this management pack is supported on System Center 2012 R2.

This management pack is supported in stand-alone environments and in network load balancing clusters. This management pack is not supported on failover clusters in Windows Server 2012.

# Getting Started

This section describes the actions you should take before you import the management pack, any steps you should take after you import the management pack, and information about customizations.

# Before You Import the Management Pack

Before you import the System Center 2012 Management Pack for Internet Information Services 8, note the following limitation of the management pack:

 Agentless monitoring is not supported. You must deploy an agent on every Internet Information Services (IIS) 8 server that you want to manage.

 For Operations Manager agents that manage IIS 8 servers with more than 400 sites and application pools, you must override the Health Service Private Bytes Threshold monitor that is targeted to the Health Service. Override the Agent Performance Monitor Type—Threshold parameter to set it to 209715200 (the number of bytes=200 MB). If you do not override this threshold monitor, the agent might consume more than 100 MB of memory and be restarted automatically.

Before you import the System Center 2012 Management Pack Guide for Internet Information Services 8, take the following actions:

 Make sure that System Center 2012 - Operations Manager is installed.

 Install the Windows 2012 Base Operating System Management Pack. If you want to monitor IIS 8.5, then make sure that you install the most recent version of the Windows 2012 Base Operating System Management Pack.

 Import the Windows Server Internet Information Services Library Management Pack (Microsoft.Windows.InternetInformationServices.CommonLibrary.mp).

## Files in This Management Pack

To monitor Internet Information Services (IIS) 8 on Windows Server 2008, you must first download the Internet Information Services 8 Management Pack from the Management Pack Catalog, located at <http://go.microsoft.com/fwlink/?LinkId=82105>.

The download package includes the following files:

 Microsoft.Windows.InternetInformationServices.2012.mp

 Microsoft.Windows.InternetInformationServices.CommonLibrary.mp

These files enable you to monitor IIS 8 (on Windows Server 2012) and IIS 8.5 (on Windows Server 2012 R2).

The management pack guide that includes IIS 5.0, IIS 6.0 and IIS 7.0 is separate from this guide.

This guide documents information specific to the Internet Information Services 8 Management Pack for Windows Server 2012. All versions of the IIS Management Pack guide can be downloaded from <http://go.microsoft.com/fwlink/?LinkId=182649>.

If you are only interested in monitoring IIS 8 servers, you will need to import:

 Microsoft.Windows.InternetInformationServices.2012.mp

 Microsoft.Windows.InternetInformationServices.CommonLibrary.mp

# How to Import the System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8

For instructions about importing a management pack, see [How to Import a Management Pack](http://go.microsoft.com/fwlink/p/?LinkID=219431).

After the System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 is imported, create a new management pack in which you store overrides and other customizations.

# Create a New Management Pack for Customizations

Most vendor management packs are 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, System Center 2012 - 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 that were created in your test and preproduction environments to your production environment. For example, instead of exporting a 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.

 You can 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.

# Optional Configuration

Information about performance collection rules that are disabled by default in this management pack is provided in Appendix A. Since the action of collecting data about performance has a performance cost itself, enable only the performance collection rules that you care about.

# Security Considerations

You may need to customize your management pack. Certain accounts cannot be run in a low-privilege environment or must have minimum permissions. If you operate in a low-privilege computing environment, you may need to elevate the level of permissions assigned to the accounts you use for running management pack rules, monitors, discoveries, recoveries, and diagnostic tasks. These accounts must have minimum permissions in order for management pack components to run properly.

# Low-Privilege Environments

The System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 requires local administrator privileges to discover, monitor, and execute tasks. For the management pack discoveries, monitors, tasks, and diagnostics that require administrative privileges, the management pack uses the Privileged Management Run As profile, configured by default to use the Local System account. The following tables identify the management pack elements that are configured to use the Privileged Management Run As profile. These management pack tasks cannot be run using a low-privilege account.

## Discoveries Configured to Use the Privileged Monitoring Account Run As Profile

|  |  |
| --- | --- |
| Name | Target |
| IIS 8 FTP Site Discovery | IIS 8 FTP Server |
| IIS 8 FTP Server Discovery | IIS 8 Server Role |
| IIS 8 Server Role Version Discovery | IIS 8 Server Role |
| IIS 8 Web Server Discovery | IIS 8 Server Role |
| Windows Server 2012 SMTP Server Discovery | IIS 8 Server Role |
| IIS 8 Application Pool Discovery (0-15 percent) | IIS 8 Web Server |
| IIS 8 Application Pool Discovery (15-30 percent) | IIS 8 Web Server |
| IIS 8 Application Pool Discovery (30-45 percent) | IIS 8 Web Server |
| IIS 8 Application Pool Discovery (45-60 percent) | IIS 8 Web Server |
| IIS 8 Application Pool Discovery (60-75 percent) | IIS 8 Web Server |
| IIS 8 Application Pool Discovery (75-90 percent) | IIS 8 Web Server |
| IIS 8 Application Pool Discovery (90-100 percent) | IIS 8 Web Server |
| IIS 8 Web Application Discovery (0-20 percent) | IIS 8 Web Server |
| IIS 8 Web Application Discovery (20-40 percent) | IIS 8 Web Server |
| IIS 8 Web Application Discovery (40-60 percent) | IIS 8 Web Server |
| IIS 8 Web Application Discovery (60-80 percent) | IIS 8 Web Server |
| IIS 8 Web Application Discovery (80-100 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (0-8 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (16-24 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (24-32 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (32-40 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (40-48 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (48-56 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (56-64 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (64-72 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (72-80 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (80-88 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (8-16 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (88-96 percent) | IIS 8 Web Server |
| IIS 8 Web Site Discovery (96-100 percent) | IIS 8 Web Server |
| Windows Server 2012 SMTP Virtual Server Discovery | Windows 2012 SMTP Server |
| IIS 8 Server Role Discovery | Windows Server 2012 Computer |

## Monitors Configured to Use the Privileged Monitoring Account Run As Profile

|  |  |
| --- | --- |
| Name | Target |
| Application Pool availability | IIS 8 Application Pool |
| FTP service availability | IIS 8 FTP Server |
| FTP Site availability | IIS 8 FTP Site |
| IIS Admin Service availability | IIS 8 Admin Service |
| Web Management service availability | IIS 8 Server Role |
| Windows Process Activation service availability | IIS 8 Web Server |
| World Wide Web Publishing service availability | IIS 8 Web Server |
| Web Site availability | IIS 8 Web Site |
| SMTP Service availability | Windows 2012 SMTP Server |
| SMTP Virtual Server availability | Windows 2012 SMTP Virtual Server |

## Tasks Configured to Use the Privileged Monitoring Account Run As Profile

|  |  |
| --- | --- |
| Name | Target |
| List Worker Processes | IS 8 Application Pool |
| Recycle Application Pool | IS 8 Application Pool |
| Start Application Pool | IS 8 Application Pool |
| Stop Application Pool | IS 8 Application Pool |
| List FTP Sites | IIS 8 FTP Server |
| Pause FTP Service | IIS 8 FTP Server |
| Resume FTP Service | IIS 8 FTP Server |
| Start FTP Service | IIS 8 FTP Server |
| Stop FTP Service | IIS 8 FTP Server |
| List status for all IIS Services | IIS 8 Server Role |
| Restart all IIS Services | IIS 8 Server Role |
| Start all IIS Services | IIS 8 Server Role |
| Start IISADMIN service | IIS 8 Admin Service |
| Start Web Management service | IIS 8 Server Role |
| Stop all IIS Services | IIS 8 Server Role |
| Stop IISADMIN Service | IIS 8 Admin Service |
| Stop Web Management Service | IIS 8 Server Role |
| List All IIS Applications | IIS 8 Web Server |
| List All IIS Worker Processes | IIS 8 Web Server |
| List All Web Sites | IIS 8 Web Server |
| List Application Pools | IIS 8 Web Server |
| Start W3SVC Service | IIS 8 Web Server |
| Start WAS Service | IIS 8 Web Server |
| Stop W3SVC Service | IIS 8 Web Server |
| Disable Failed Request Tracing | IIS 8 Web Site |
| Enable Failed Request Tracing | IIS 8 Web Site |
| List Web Site Properties | IIS 8 Web Site |
| Start Web Site | IIS 8 Web Site |
| Stop Web Site | IIS 8 Web Site |
| Pause SMTP Service | Windows 2012 SMTP Server |
| Resume SMTP Service | Windows 2012 SMTP Server |
| Start SMTP Service | Windows 2012 SMTP Server |
| Stop SMTP Service | Windows 2012 SMTP Server |

## Diagnostics Configured to Use the Privileged Monitoring Account Run As Profile

|  |  |  |
| --- | --- | --- |
| Name | Target | Monitor Name |
| List Web Site Properties | IIS 8 Web Site | Invalid Web Site Bindings |

# Computer Groups

You can delegate authority to a precise level with user roles. For more information about user roles, see [Implementing User Roles](http://go.microsoft.com/fwlink/?LinkId=%20221238).

The following computer groups can be used for scoping and roles authorization:

 IIS 8 Computer Group

 IIS 8 Server Role Instance Group

# Understanding Management Pack Operations

The System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 manages the logical parts of IIS 8 that an operator or administrator is interested in, such as monitoring, configuring, and reporting. The management pack monitors the health of the IIS 8 server role and provides the administrator with a state view of the role.

# Objects the Management Pack Discovers

The System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 discovers the object types described in the following table. All objects are automatically discovered if the underlying service startup type is set to Automatic. Use overrides to discover objects that are not discovered automatically (underlying service startup type is set to Manual).

|  |  |
| --- | --- |
| Object Type | Automatically Discovered? |
| IIS 8 Computer Group | Yes |
| IIS 8 Server Role | Yes |
| IIS 8 Admin Service | Yes |
| IIS 8 Server Role Instance Group | Yes |
| IIS 8 FTP Server | Yes |
| IIS 8 FTP Site | Yes |
| Windows Server 2012 SMTP Server | Yes |
| Windows Server 2012 SMTP Virtual Server | Yes |
| IIS 8 Web Server | Yes |
| IIS 8 Web Site | Yes |
| IIS 8 Application Pool | Yes |
| IIS 8 ASP.NET Application Endpoint | Yes |
| IIS 8 ASP.NET Web Service Endpoint | Yes |

## Overrides to Enable Discovery

The discoveries in the table below have a parameter that controls the discovery of the object when the associated service startup type is Automatic. By default, the parameter value is True so that the object is discovered if the associated service startup type is Automatic. If the associated service startup type is Manual, the object is not discovered.

Use the following Discovery information to override the default parameter value for objects you want the management pack to discover when the underlying service startup type is Manual.

|  |  |  |
| --- | --- | --- |
| Discovery Name | Discovered Type | Parameter Name |
| IIS 8 FTP Server Discovery | IIS 8 FTP Server | Discover FTP Server when the service startup type is Automatic |
| Windows Server 2012 SMTP Server Discovery | Windows Server 2012 SMTP Server | Discover SMTP Server when the service startup type is Automatic  |

Warning

 By default, this management pack will only discover the FTP Server and SMTP Server objects if the underlying service startup type for each is Automatic.

 If the underlying service startup type for the objects is Manual, we recommend that you create an override for the Service Status monitor for the objects and that you override the discoveries to discover the objects even though the service is not started by default. If the object service startup type is Manual and you do not create an override for the Service Status monitor, the management pack will not generate alerts if the service stops.

# Tasks

The administrator can perform a set of basic management tasks without switching to another console. The table displays the predefined tasks included in this Management pack.

|  |  |  |
| --- | --- | --- |
| Web site | Application pool | IIS server |
| Start or stop | Start, stop, or recycle | List status of services |
| Enable or disable failed request tracing | List worker processes | Start or stop Web management services |
| List Web site properties |  | Start, stop, pause IIS Admin service |
|  |  | \*Start, stop, restart all IIS services |

\*The Start All IIS Services task does not start the FTP or SMTP services. This task uses the IISRESET.exe command, which starts only those IIS services with a Startup type set to Automatic. By default, the Startup type for FTP and SMTP services is Manual.

# Classes

The following diagram shows the classes defined in this management pack.



# How Health Rolls Up

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



# Key Monitoring Scenarios

The list below describes common monitoring scenarios.

 Monitor the Web Server status and the status of the following services: Web management, FTP, SMTP, Windows Process Activation Service (WAS).

 Monitor that the following are running and available: Web site, Application Pool, FTP Site, SMTP Virtual Server.

 Detect an alert on configuration and resource errors logged by IIS 8 components.

 Monitor application pool recycling events to detect application pools which may be executing code that is generating memory leaks or other memory usage problems, and then change the health state accordingly.

# Placing Monitored Objects in Maintenance Mode

When a monitored object, such as a computer or distributed application, goes offline for maintenance, Operations Manager 2007 detects that no agent heartbeat is being received and, as a result, might generate numerous alerts and notifications. To prevent alerts and notifications, place the monitored object into maintenance mode. In maintenance mode, alerts, notifications, rules, monitors, automatic responses, state changes, and new alerts are suppressed at the agent.

# Overriding the Default Discovery Interval

The default interval for discovering IIS management pack objects is four hours. You can override this interval depending on your business environment.

To override the default interval for discovering IIS management pack objects

|  |
| --- |
| 1. In the Operations Console, click the Authoring button.2. Expand Management Pack Objects, and then click Object Discoveries.3. In the Object Discoveries pane, expand the targets until you reach the desired Discovery workflow.4. In the Actions pane, click Overrides.5. Select Override Object Discovery, and then choose the scope for the override from the list of options.Note For some options you might be required to identify the instances or groups to override.6. Click the Override checkbox for the parameter that specifies the time interval for the Discovery.7. Enter the value in seconds in the Override Setting column. For example, to run the Discovery every hour, you would enter 3600.8. Click OK. |

# Resetting the Health State of Unhealthy Unit Monitors

The following Unit Monitors do not automatically reset their Health State after the system has returned to a healthy state. For example, if one of the following Unit Monitors reports an unhealthy state, it will not update its state to healthy after the problem has been resolved.

|  |  |
| --- | --- |
| Name | Target |
| Application pool disabled due to WAS request failure | IIS 8 Application Pool |
| Application Pool disabled due to worker process failure | IIS 8 Application Pool |
| Potential memory leak in web application code | IIS 8 Application Pool |
| Application Pool identity is invalid | IIS 8 Application Pool |
| WAS has encountered an error during the SID mapping for the application pool | IIS 8 Application Pool |
| Web Site binding is already in use | IIS 8 Web Site |
| Could not initialize the logging module for website | IIS 8 Web Site |
| HTTP.sys has been configured to listen to too many ports | IIS 8 Web Site |
| Web Site is configured to use invalid application pool | IIS Web Site |
| Invalid Web Site Bindings | IIS Web Site |
| Invalid Web Site URL | IIS 8 Web Site |
| IP address for the site is not in the HTTP.sys IP listen list | IIS 8 Web Site |
| Invalid application path | IIS 8 Web Site |
| Windows Process Activation Service (WAS) did not create site | IIS 8 Web Site |
| Windows Process Activation Service (WAS) did not process changes that affect the website | IIS 8 Web Site |
| Configuration request for website failed | IIS 8 Web Site |

To reset the health state for a Unit Monitor

|  |
| --- |
| 1. In the Monitoring pane, expand the Microsoft Windows Internet Information Services folder.2. In the Operations Console, click the Monitoring button.3. Click the Active Alerts alert view.4. In the Active Alerts pane, select the Alert that was generated by one of these monitors.5. In the Actions pane, click Health Explorer.6. In the Health Explorer dialog box, select the unit monitor that is reporting an unhealthy state.7. Click Reset Health on the toolbar.8. Click Yes when prompted to reset the health monitor. |

# Enabling Rules and Discoveries that are Disabled by Default

The following Rules and Discoveries are disabled by default:

|  |  |
| --- | --- |
| Rules | Target |
| HTTP Service Request Queues\Current Queue Size Performance Rule | IIS 8 Application Pool |
| HTTP Service Request Queues\Rejection Rate Performance Rule | IIS 8 Application Pool |
| .NET CLR Memory\% Time in GC Performance Rule | IIS 8 Web Server |
| Failed to perform Web Application discovery | Microsoft.SystemCenter.HealthService |
| Failed to perform Web Server properties discovery | Microsoft.SystemCenter.HealthService |
| Failed to perform Web Site discovery | Microsoft.SystemCenter.HealthService |
| Failed to find Application Pool while attempting to retrieve state | Microsoft.SystemCenter.HealthService |
| Failed to find site while attempting to retrieve state | Microsoft.SystemCenter.HealthService |
| Failed to perform Application Pool discovery | Microsoft.SystemCenter.HealthService |
| Failed to perform FTP server discovery | Microsoft.SystemCenter.HealthService |
| Failed to perform FTP site discovery | Microsoft.SystemCenter.HealthService |
| IIS component discovery failed due to insufficient privileges | Microsoft.SystemCenter.HealthService |
| Failed to perform initialization of IIS state monitoring module | Microsoft.SystemCenter.HealthService |
| Failed to retrieve site state | Microsoft.SystemCenter.HealthService |
| Failed to retrieve Application Pool state | Microsoft.SystemCenter.HealthService |
| FTP Service\Bytes Received/sec Performance Rule | IIS 8 FTP Server |
| FTP Service\Bytes Sent/sec Performance Rule | IIS 8 FTP Server |
| FTP Service\Bytes Received/sec Performance Rule | IIS 8 FTP Site |
| FTP Service\Bytes Sent/sec Performance Rule | IIS 8 FTP Site |
| FTP Service\Bytes Total/sec Performance Rule | IIS 8 FTP Site |
| FTP Service\Current Connections Performance Rule | IIS 8 FTP Site |
| Active Server Pages\Requests Not Found Performance Rule | IIS 8 Web Server |
| Active Server Pages\Requests Queued Performance Rule | IIS 8 Web Server |
| Active Server Pages\Requests/Sec Performance Rule | IIS 8 Web Server |
| Active Server Pages\Request Wait Time Performance Rule | IIS 8 Web Server |
| ASP.NET Applications\Errors Total/Sec Performance | IIS 8 Web Server |
| ASP.NET Applications\Requests In Application Queue Performance Rule | IIS 8 Web Server |
| ASP.NET Applications\Requests/Sec Performance Rule | IIS 8 Web Server |
| ASP.NET\Requests Current Performance Rule | IIS 8 Web Server |
| ASP.NET\Requests Queued Performance Rule | IIS 8 Web Server |
| ASP.NET\Request Wait Time Performance Rule | IIS 8 Web Server |
| ASP.NET\Worker Process Restarts Performance Rule | IIS 8 Web Server |
| .NET CLR Memory\# Induced GC | IIS 8 Web Server |
| .NET CLR Exceptions\# Exceptions Thrown/sec Performance Rule | IIS 8 Web Server |
| Web Service\Current ISAPI Extension Requests/sec Performance Rule | IIS 8 Web Server |
| Web Service\ISAPI Extension Requests/sec Performance Rule | IIS 8 Web Server |
| Web Service\Bytes Received/sec Performance Rule | IIS 8 Web Site |
| Web Service\Bytes Sent/sec Performance Rule | IIS 8 Web Site |
| Web Service\Bytes Total/sec Performance Rule | IIS 8 Web Site |
| Web Service\Current Connections Performance Rule | IIS 8 Web Site |
| Web Service\Current ISAPI Extension Requests Performance Rule | IIS 8 Web Site |
| Web Service\ISAPI Extension Requests/sec Performance Rule | IIS 8 Web Site |

To enable Rules or Discoveries

|  |
| --- |
| 1. In the Operations Console, click the Authoring button.2. Expand Management Pack Objects, and then click Rules.3. Select the rule that you want to enable in the Rules pane4. In the Actions pane, click Enable. |

# Links

The following links connect you to information about common tasks that are associated with System Center management packs:

## System Center 2012 - Operations Manager

 [Management Pack Life Cycle](http://go.microsoft.com/fwlink/p/?LinkID=232986)

 [How to Import a Management Pack](http://go.microsoft.com/fwlink/p/?LinkID=219431)

 [Tuning Monitoring by Using Targeting and Overrides](http://go.microsoft.com/fwlink/p/?LinkID=217065)

 [How to Create a Run As Account](http://go.microsoft.com/fwlink/p/?LinkId=232988)

 [How to Export a Management Pack](http://go.microsoft.com/fwlink/p/?LinkId=232990)

 [How to Remove a Management Pack](http://go.microsoft.com/fwlink/p/?LinkId=232991)

For questions about Operations Manager and management packs, see the [System Center Operations Manager community forum](http://go.microsoft.com/fwlink/?LinkID=179635).

A useful resource is the [System Center Operations Manager Unleashed blog](http://go.microsoft.com/fwlink/?LinkId=246391), which contains “By Example” posts for specific management packs.

For additional information about Operations Manager, see the [System Center 2012 - Operations Manager Survival Guide](http://go.microsoft.com/fwlink/?LinkId=246383) and [Operations Manager 2007 Management Pack and Report Authoring Resources](http://go.microsoft.com/fwlink/?LinkId=246388)

Important

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# Appendix A: Monitors and Rules for Management Packs

This section provides detailed procedures and scripts that allow you to display rules and other information about the management packs you import.

# How to View Management Pack Details

For more information about a monitor and the associated override values, see the knowledge for the monitor.

To view knowledge for a monitor

|  |
| --- |
| 1. In the Operations Console, click the Authoring button.2. Expand Management Pack Objects, and then click Monitors.3. In the Monitors pane, expand the targets until you reach the monitor level. Alternatively, you can use the Search box to find a particular monitor.4. Click the monitor, and in the Monitors pane, click View knowledge.5. Click the Product Knowledge tab. |

# Unit Monitors for a Management Pack

You can display unit monitors for Internet Information Services 8 components, for a set of Windows NT services, and for events in the event log.

The following applies to all unit monitors listed in the tables below:

 All are enabled by default

 All generate an alert by default (unless otherwise noted). This can be changed by creating an override.

## Unit monitors: IIS Components

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Target | Interval (sec) | Severity | Auto Resolve |
| Application pool availability | IIS 8 application pool | 60 | Error | True |
| FTP site availability | IIS 8 FTP site | 60 | Error | True |
| Web site availability | IIS 8 Web site | 60 | Error | True |
| SMTP Virtual Server availability | Windows Server 2012 SMTP Virtual Server | 60 | Error | True |

## Unit monitors: Windows NT Services

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Target | Service | Interval (sec) | Severity | Auto Resolve |
| FTP service availability | IIS 8 FTP server | FTPSVC | 60 | Error | True |
| IIS Admin service availability | IIS 8 Admin Service | IISADMIN | 60 | Error | True |
| Web Management Service availability | IIS 8 server role | WMSVC | 60 | Warning | True |
| Windows Process Activation Service availability\* | IIS 8 Web server | WAS | 60 | Error | True |
| World Wide Web Publishing Service availability | IIS 8 Web server | W3SVC | 60 | Error | True |
| SMTP Service availability | Windows Server 2012 SMTP server | SMTPSVC | 60 | Error | True |

\*This service is monitored even though the default Startup type is Manual.

## Unit monitors: Event Log

These 16 unit monitors are “Manual reset” monitors. Unit monitors do not detect when to transition back to a healthy state and must be reset manually.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Target | Log | Source | Event | Severity | Auto Resolve |
| Application pool disabled due to Windows Process Activation Service (WAS) request failure. | IIS 8 application pool | System | Microsoft-Windows-WAS | 5144 | Error | True |
| Application pool disabled due to worker process failure. | IIS 8 application pool | System | Microsoft-Windows-WAS | 5002, 5059 | Error | True |
| Application pool identity is invalid. | IIS 8 application pool | System | Microsoft-Windows-WAS | 5021, 5057 | Error | True |
| Potential memory leak in Web application code. | IIS 8 application pool | System | Microsoft-Windows-WAS | 5117, 5077 | Warning | True |
| Windows Process Activation Service (WAS) has encountered an error during the security identifier (SID) mapping for the application pool. | IIS 8 application pool | System | Microsoft-Windows-WAS | 5190 | Error | True |
| Configuration request for Web site failed. | IIS 8 Web site | System | Microsoft-Windows-WAS | 5150 | Error | True |
| Could not initialize the logging module for Web site. | IIS 8 Web site | Application | Microsoft-Windows-IIS-W3SVC-WP | 2271 | Error | True |
| HTTP.sys has been configured to listen to too many ports. | IIS 8 Web site | System | Microsoft-Windows-IIS-W3SVC | 1131 | Error | True |
| Invalid application path. | IIS 8 Web site | System | Microsoft-Windows-WAS | 5056, 5161 | Error | True |
| Invalid Web site bindings. | IIS 8 Web site | System | Microsoft-Windows-IIS-W3SVC | 1029, 1004, 1172, 1043, 1174 | Error | True |
| Invalid Web site bindings. | IIS 8 Web site | System | Microsoft-Windows-WAS | 5043 | Error | True |
| Invalid Web site URL. | IIS 8 Web site | System | Microsoft-Windows-IIS-WMSVC | 1003 | Error | True |
| IP address for the site is not in the HTTP.sys IP listen list. | IIS 8 Web site | System | Microsoft-Windows-IIS-W3SVC | 1129, 1130 | Error | True |
| Web site binding is already in use. | IIS 8 Web site | System | Microsoft-Windows-IIS-WMSVC | 1007 | Error | True |
| Web site is configured to use invalid application pool. | IIS 8 Web site | System | Microsoft-Windows-WAS | 5055 | Error | True |
| Windows Process Activation Service (WAS) did not create site. | IIS 8 Web site | System | Microsoft-Windows-WAS | 5102 | Error | True |
| Windows Process Activation Service (WAS) did not process changes that affect the Web site. | IIS 8 Web site | System | Microsoft-Windows-WAS | 5143 | Error | True |

# Dependency Monitors for a Management Pack

The following table displays the dependency monitors enabled by default in the System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8.

## Dependency monitors

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Target | Algorithm | Generate Alert |
| IIS availability health state depends on FTP Service. | IIS 8 server role | WorstOf | False |
| IIS availability health state depends on SMTP Service. | IIS 8 server role | WorstOf | False |
| IIS availability health state depends on IIS Admin Service | IIS 8 Admin Service | WorstOf | False |
| IIS availability health state depends on World Wide Web Publishing Service. | IIS 8 server role | WorstOf | False |
| Web site availability health state depends on application pool. | IIS 8 Web site | WorstOf | False |
| Web site configuration health depends on application pool. | IIS 8 Web site | WorstOf | False |

# Performance Collection Rules for a Management Pack

The following tables display information about the performance collection rules in the System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8.

The following applies to all performance collection rules listed below:

 Default interval (in seconds): 300

 Alerts are not generated.

## Performance Collection Rules Enabled by Default

The performance collection rules in the list are enabled by default in this management pack.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Target | Object | Counter |
| FTP Service\Bytes Total/sec | IIS 8 FTP server | Microsoft FTP Service | Bytes Total/sec |
| FTP Service\Current Connections | IIS 8 FTP server | Microsoft FTP Service | Current Connections |
| Web Service\Bytes Received/sec | IIS 8 Web server | Web Service | Bytes Received/sec |
| Web Service\Bytes Sent/sec | IIS 8 Web server | Web Service | Bytes Sent/sec |
| Web Service\Bytes Total/sec | IIS 8 Web server | Web Service | Bytes Total/sec |
| Web Service\Connection Attempts/sec | IIS 8 Web server | Web Service | Connection Attempts/sec |
| Web Service\Current Connections | IIS 8 Web server | Web Service | Current Connections |
| Web Service\Total Method Requests/sec | IIS 8 Web server | Web Service | Total Method Requests/sec |
| SMTP Server\Bytes Received/sec | Windows Server 2012 SMTP server | SMTP Server | Bytes Received/sec |
| SMTP Server\Bytes Sent/sec | Windows Server 2012 SMTP server | SMTP Server | Bytes Sent/sec |
| SMTP Server\Bytes Total/sec | Windows Server 2012 SMTP server | SMTP Server | Bytes Total/sec |
| SMTP Server\Inbound Connections Current | Windows Server 2012 SMTP server | SMTP Server | Inbound Connections Current |
| SMTP Server\Message Bytes Received/Sec | Windows Server 2012 SMTP server | SMTP Server | Message Bytes Received/sec |
| SMTP Server\Message Bytes Sent/Sec | Windows Server 2012 SMTP server | SMTP Server | Message Bytes Sent/sec |
| SMTP Server\Messages Delivered/Sec | Windows Server 2012 SMTP server | SMTP Server | Messages Delivered/sec |
| SMTP Server\Messages Received/Sec | Windows Server 2012 SMTP server | SMTP Server | Messages Received/sec |
| SMTP Server\Messages Sent/Sec | Windows Server 2012 SMTP server | SMTP Server | Messages Sent/sec |
| SMTP Server\Outbound Connections Current | Windows Server 2012 SMTP server | SMTP Server | Outbound Connections Current |
| SMTP Server\Total Messages Submitted | Windows Server 2012 SMTP server | SMTP Server | Total Messages Submitted |
| SMTP Server\Bytes Received/sec | Windows Server 2012 SMTP Virtual Server | SMTP Server | Bytes Received/sec |
| SMTP Server\Bytes Sent/sec | Windows Server 2012 SMTP Virtual Server | SMTP Server | Bytes Sent/sec |
| SMTP Server\Bytes Total/sec | Windows Server 2012 SMTP Virtual Server | SMTP Server | Bytes Total/sec |
| SMTP Server\Inbound Connections Current | Windows Server 2012 SMTP Virtual Server | SMTP Server | Inbound Connections Current |
| SMTP Server\Message Bytes Received/Sec | Windows Server 2012 SMTP Virtual Server | SMTP Server | Message Bytes Received/sec |
| SMTP Server\Message Bytes Sent/Sec | Windows Server 2012 SMTP Virtual Server | SMTP Server | Message Bytes Sent/sec |
| SMTP Server\Messages Delivered/Sec | Windows Server 2012 SMTP Virtual Server | SMTP Server | Messages Delivered/sec |
| SMTP Server\Messages Received/Sec | Windows Server 2012 SMTP Virtual Server | SMTP Server | Messages Received/sec |
| SMTP Server\Messages Sent/Sec | Windows Server 2012 SMTP Virtual Server | SMTP Server | Messages Sent /sec |
| SMTP Server\Outbound Connections Current | Windows Server 2012 SMTP Virtual Server | SMTP Server | Outbound Connections Current |
| SMTP Server\Total Messages Submitted | Windows Server 2012 SMTP Virtual Server | SMTP Server | Total Messages Submitted |

## Performance Collection Rules Disabled by Default

The performance collection rules in the list are disabled by default in this management pack.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Target | Object | Counter |
| HTTP Service Request Queues\Current Queue Size | IIS 8 application pool | HTTP Service Request Queues | CurrentQueueSize |
| HTTP Service Request Queues\Rejection Rate | IIS 8 application pool | HTTP Service Request Queues | RejectionRate |
| FTP Service\Bytes Received/sec | IIS 8 FTP server | Microsoft FTP Service | Bytes Received/sec |
| FTP Service\Bytes Sent/sec | IIS 8 FTP server | Microsoft FTP Service | Bytes Sent/sec |
| FTP Service\Bytes Received/sec | IIS 8 FTP site | Microsoft FTP Service | Bytes Received/sec |
| FTP Service\Bytes Sent/sec | IIS 8 FTP site | Microsoft FTP Service | Bytes Sent/sec |
| FTP Service\Bytes Total/sec | IIS 8 FTP site | Microsoft FTP Service | Bytes Total/sec |
| FTP Service\Current Connections | IIS 8 FTP site | Microsoft FTP Service | Current Connections |
| .NET CLR Exceptions\# Exceptions Thrown/sec | IIS 8 Web server | .NET CLR Exceptions | # of Exceps Thrown/sec |
| .NET CLR Memory\# Induced GC | IIS 8 Web server | .NET CLR Memory | # Induced GC |
| .NET CLR Memory\% Time in GC | IIS 8 Web server | .NET CLR Memory | % Time in GC |
| Active Server Pages\Request Wait Time | IIS 8 Web server | Active Server Pages | Request Wait Time |
| Active Server Pages\Requests Not Found | IIS 8 Web server | Active Server Pages | Requests Not Found |
| Active Server Pages\Requests Queued | IIS 8 Web server | Active Server Pages | Requests Queued |
| Active Server Pages\Requests/Sec | IIS 8 Web server | Active Server Pages | Requests/Sec |
| ASP.NET Applications\Errors Total/Sec | IIS 8 Web server | ASP.NET Applications | Errors Total/Sec |
| ASP.NET Applications\Requests In Application Queue | IIS 8 Web server | ASP.NET Applications | Requests In Application Queue |
| ASP.NET Applications\Requests/Sec | IIS 8 Web server | ASP.NET Applications | Requests/Sec |
| ASP.NET\Request Wait Time | IIS 8 Web server | ASP.NET | Request Wait Time |
| ASP.NET\Requests Current | IIS 8 Web server | ASP.NET | Requests Current |
| ASP.NET\Requests Queued | IIS 8 Web server | ASP.NET | Requests Queued |
| ASP.NET\Worker Process Restarts | IIS 8 Web server | ASP.NET | Worker Process Restarts |
| Web Service\Current ISAPI Extension Requests/sec | IIS 8 Web server | Web Service | Current ISAPI Extension Requests |
| Web Service\ISAPI Extension Requests/sec | IIS 8 Web server | Web Service | ISAPI Extension Requests/sec |
| Web Service\Bytes Received/sec | IIS 8 Web server | Web Service | Bytes Received/sec |
| Web Service\Bytes Sent/sec | IIS 8 Web server | Web Service | Bytes Sent/sec |
| Web Service\Bytes Total/sec | IIS 8 Web server | Web Service | Bytes Total/sec |
| Web Service\Current Connections | IIS 8 Web server | Web Service | Current Connections |
| Web Service\Current ISAPI Extension Requests | IIS 8 Web server | Web Service | Current ISAPI Extension Requests |
| Web Service\ISAPI Extension Requests/sec | IIS 8 Web server | Web Service | ISAPI Extension Requests/sec |

# Event Log Rules for a Management Pack

The following tables display information about the event log rules in the System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8.

## Event Log Rules Enabled by Default

The event log rules in the table below are enabled by default and generate alerts by default.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Name | Target | Event ID | Event Source | Event Log | Alert Severity |
| Application pool has an IdleTimeout equal to or greater than the PeriodicRestart time. | IIS 8 application pool | 5152 | Microsoft-Windows-WAS | System | Warning |
| Application pool worker process is unresponsive. | IIS 8 application pool | 5010, 5011, 5012, 5013 | Microsoft-Windows-WAS | System | Warning |
| Application pool worker process terminated unexpectedly. | IIS 8 application pool | 5009 | Microsoft-Windows-WAS | System | Warning |
| Job object associated with the application pool encountered an error. | IIS 8 application pool | 5088, 5061, 5060 | Microsoft-Windows-WAS | System | Warning |
| Windows Process Activation Service (WAS) did not apply configuration changes to application pool. | IIS 8 application pool | 5085 | Microsoft-Windows-WAS | System | Warning |
| Windows Process Activation Service (WAS) did not run the automatic shutdown executable for application pool. | IIS 8 application pool | 5054, 5091 | Microsoft-Windows-WAS | System | Error |
| Windows Process Activation Service (WAS) encountered a failure while setting the affinity mask of an application pool. | IIS 8 application pool | 5058 | Microsoft-Windows-WAS | System | Warning |
| Windows Process Activation Service (WAS) encountered an internal error while managing a worker process. | IIS 8 application pool | 5014 | Microsoft-Windows-WAS | System | Warning |
| Windows Process Activation Service (WAS) failed to create application pool. | IIS 8 application pool | 5101 | Microsoft-Windows-WAS | System | Error |
| Windows Process Activation Service (WAS) failed to issue recycle request to application pool. | IIS 8 application pool | 5070, 5093 | Microsoft-Windows-WAS | System | Warning |
| Worker process for application pool encountered an error while trying to read global module configuration. | IIS 8 application pool | 2297 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| Worker process serving an application pool reported a failure. | IIS 8 application pool | 5039 | Microsoft-Windows-WAS | System | Warning |
| Worker process serving application pool was orphaned. | IIS 8 application pool | 5015 | Microsoft-Windows-WAS | System | Warning |
| Worker process serving the application pool is no longer trusted by Windows Process Activation Service (WAS). | IIS 8 application pool | 5127 | Microsoft-Windows-WAS | System | Warning |
| World Wide Web Publishing Service encountered an error when it tried to secure the handle of the application pool. | IIS 8 application pool | 1026 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| World Wide Web Publishing Service failed to properly configure the application pool queue length. | IIS 8 application pool | 1087 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| World Wide Web Publishing Service failed to properly configure the load balancer capabilities on application pool. | IIS 8 application pool | 1086 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| A script has not responded within the configured time-out period. | IIS 8 Web server | 2216 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| A server-side-include file has included itself, or the maximum depth of server-side include files has been exceeded. | IIS 8 Web server | 2221 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| An attempt was made to load an ISAPI filter on a server instance, but because it requires the SF\_NOTIFY\_READ\_RAW\_DATA filter notification, it must be loaded as a global filter. | IIS 8 Web server | 2222 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| ASP application error occurred. | IIS 8 Web server | 500, 499, 23, 22, 21, 20, 19, 18, 17, 16, 9, 8, 7, 6, 5 | Active Server Pages | Application | Warning |
| HTTP control channel for the World Wide Web Publishing Service did not open. | IIS 8 Web server | 1037 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| HTTP Server could not create a client connection object for user. | IIS 8 Web server | 2208 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| HTTP Server could not create the main connection socket. | IIS 8 Web server | 2206 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| HTTP Server could not initialize its security. | IIS 8 Web server | 2201 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| HTTP Server could not initialize the socket library. | IIS 8 Web server | 2203 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| HTTP Server was unable to initialize because of a shortage of available memory. | IIS 8 Web server | 2204 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| ISAPI application error detected. | IIS 8 Web server | 2274, 2268, 2220, 2219, 2214 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| Module has an invalid precondition. | IIS 8 Web server | 2296 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| Module registration error detected (failed to find RegisterModule entry point). | IIS 8 Web server | 2295 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| Module registration error detected (module returned an error during registration). | IIS 8 Web server | 2293 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| Only one type of logging can be enabled at a time. | IIS 8 Web server | 1133 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| SF\_NOTIFY\_READ\_RAW\_DATA filter notification is not supported in IIS 8. | IIS 8 Web server | 2261 | Microsoft-Windows-IIS-W3SVC-WP. | Application | Warning |
| The configuration manager for Windows Process Activation Service (WAS) did not initialize. | IIS 8 Web server | 5036 | Microsoft-Windows-WAS | System | Error |
| The directory specified for caching compressed content is invalid. | IIS 8 Web server | 2264 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| The Global Modules list is empty. | IIS 8 Web server | 2298 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| The HTTP server encountered an error processing the server-side include file. | IIS 8 Web server | 2218 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| The server failed to close client connections to URLs during shutdown. | IIS 8 Web server | 2258 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| The server was unable to acquire a license for an SSL connection. | IIS 8 Web server | 2227 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| The server was unable to allocate a buffer to read a file. | IIS 8 Web server | 2233 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| The server was unable to read a file. | IIS 8 Web server | 2226, 2230, 2231, 2232 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| Windows Process Activation Service (WAS) detected invalid configuration data. | IIS 8 Web server | 5174, 5179, 5180 | Microsoft-Windows-WAS | System | Warning |
| Windows Process Activation Service (WAS) encountered a failure requesting IIS configuration store change notifications. | IIS 8 Web server | 5063 | Microsoft-Windows-WAS | System | Warning |
| Windows Process Activation Service (WAS) encountered an error attempting to configure centralized logging. | IIS 8 Web server | 5066 | Microsoft-Windows-WAS | System | Error |
| Windows Process Activation Service (WAS) encountered an error attempting to look up the built-in IIS\_IUSRS group. | IIS 8 Web server | 5153 | Microsoft-Windows-WAS | System | Warning |
| Windows Process Activation Service (WAS) encountered an error trying to read configuration. | IIS 8 Web server | 5172, 5173 | Microsoft-Windows-WAS | System | Warning |
| Windows Process Activation Service (WAS) is stopping because it encountered an error. | IIS 8 Web server | 5005 | Microsoft-Windows-WAS | System | Error |
| Windows Process Activation Service (WAS) received a change notification but was unable to process it correctly. | IIS 8 Web server | 5053 | Microsoft-Windows-WAS | System | Warning |
| Windows Process Activation Service (WAS) terminated unexpectedly, and the system was not configured to restart it. | IIS 8 Web server | 5030 | Microsoft-Windows-WAS | System | Error |
| Worker process encountered an error during initialization. | IIS 8 Web server | 2279, 2278, 2277 | Microsoft-Windows-IIS-W3SVC-WP | Application | Warning |
| Worker process failed to initialize communication with the World Wide Web Publishing Service and therefore could not be started. | IIS 8 Web server | 2281 | Microsoft-Windows-IIS-WMSVC | Application | Warning |
| World Wide Web Publishing Service did not initialize the HTTP driver and was unable start. | IIS 8 Web server | 1173 | Microsoft-Windows-IIS-W3SVC | System | Error |
| World Wide Web Publishing Service failed to configure the centralized World Wide Web Consortium (W3C) logging properties. | IIS 8 Web server | 1135,1134 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| World Wide Web Publishing Service failed to configure the HTTP.SYS control channel property. | IIS 8 Web server | 1020 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| World Wide Web Publishing service failed to configure the logging properties for the HTTP control channel. | IIS 8 Web server | 1062 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| World Wide Web Publishing Service failed to copy a change notification for processing. | IIS 8 Web server | 1126 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| World Wide Web Publishing Service failed to enable end point sharing for the HTTP control channel. | IIS 8 Web server | 1175 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| World Wide Web Publishing Service failed to enable global bandwidth throttling. | IIS 8 Web server | 1071, 1073 | Microsoft-Windows-IIS-W3SVC | System | Warning |
| World Wide Web Publishing Service property failed range validation. | IIS 8 Web server | 5067 | Microsoft-Windows-WAS | System | Warning |

## Event Log Rules Disabled by Default

The following rules are designed to detect errors that are logged by the Operations Manager 2007 modules that perform discovery and monitoring of IIS 8. The rules are disabled by default because their purpose is to run only on servers on which IIS 8 is installed rather than running on every server that has an Operations Manager agent.

To ensure that these rules run only on servers on which IIS 8 is actually installed, the rules are disabled by default. The management pack contains a set of overrides that enable the rules to run only on servers with IIS 8 installed.

Note

The Operations Manager administrator does not need to take any action such as creating overrides in order to enable these rules to run on IIS 8 servers as the necessary overrides are already included in the System Center 2012 Management Pack for Microsoft Windows Server 2012 Internet Information Services 8 and are applied automatically when you import the management pack.

The following settings apply to all the event log rules in the table below:

 Alerts are generated by default. This can be changed by creating an override.

 Event Source: Health Service Modules

 Event Log: Operations Manager

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Target | Event ID | Alert Severity |
| Failed to find application pool while attempting to retrieve state. | Health Service | 33856 | Warning |
| Failed to find site while attempting to retrieve state. | Health Service | 33855 | Warning |
| Failed to perform application pool discovery. | Health Service | 33006, 33031, 33032, 33033 | Warning |
| Failed to perform FTP server discovery. | Health Service | 33007 | Warning |
| Failed to perform FTP site discovery. | Health Service | 33008 | Warning |
| Failed to perform initialization of IIS discovery module. | Health Service | 33001, 33014, 33017, 33018, 33030, 33034, 33035 | Warning |
| Failed to perform initialization of IIS state monitoring module. | Health Service | 33851, 33853, 33854, 33867, 33868 | Warning |
| Failed to perform Web application discovery. | Health Service | 33029 | Warning |
| Failed to perform Web server properties discovery. | Health Service | 33004 | Warning |
| Failed to perform Web site discovery. | Health Service | 33005, 33019, 33020, 33021, 33036, 33037, 33038 | Warning |
| Failed to retrieve application pool state. | Health Service | 33858, 33859, 33862 | Warning |
| Failed to retrieve site state. | Health Service | 33852, 33857, 33860, 33863, 33864, 33865, 33866 | Warning |
| IIS component discovery failed due to insufficient privileges. | Health Service | 33015 | Warning |
| Agent update that is required for IIS 8 monitoring is not installed. | Health Service | 4507 | Error |

# Appendix B: Application Pool Properties

In Internet Information Services (IIS) 8 running on Windows Server 2012, Application Pool objects include properties that define the configuration settings for various Application Pool processes. The Identity Type property determines the account type under which the application pool runs.

## Application Pool Identity Type Property Values

The following table contains the possible values and account types for the Application Pool Identity Type property. The default Identity Type is 2 (Network Service).

|  |  |
| --- | --- |
| Value | Account Type |
| 0 | Local System |
| 1 | Local Service |
| 2 | Network Service |
| 3 | Specific User |
| 4 | Application Pool Identity |

## The Application Pool Recycling Monitor

The Application Pool Recycling Monitor tracks the number of times an application pool recycling event occurs during a given time period. If the number of application pool recycling events exceeds the number allowed in the specified time period, the management pack changes the component health state to Warning (yellow).

The table below shows the configurable parameters that trigger the monitor to change the health state to Warning (yellow).

|  |  |
| --- | --- |
| Parameter | Description |
| Number of occurrences | Controls the allowable number of times an application pool recycling event can occur during a specified time period. |
| Time interval (in seconds) | Sets the length of time allowed for the configured number of occurrences. |