



Microsoft: Windows Server PowerPack Release Notes

Version 112

Table of Contents

Before You Install or Upgrade	3
Installing or Upgrading to this Version	3
Features	4
Enhancements and Issues Addressed	4
Known Issues and Workarounds	8

Overview

Version 112 of the *Microsoft: Windows Server PowerPack* includes new IC Dynamic Applications, merges the content of the *Microsoft: Windows Server Services PowerPack*, and addresses a number of support defects and issues.

- **Minimum Required Platform Version:** 10.1.0

This document includes the following topics:

<i>Before You Install or Upgrade</i>	3
<i>Installing or Upgrading to this Version</i>	3
<i>Features</i>	4
<i>Enhancements and Issues Addressed</i>	4
<i>Known Issues and Workarounds</i>	8

Before You Install or Upgrade

Ensure that you are running version 10.1.0 or later of SL1 before installing *Microsoft: Windows Server* version 112.

NOTE: For details on upgrading SL1, see the appropriate [Release Notes](#).

Installing or Upgrading to this Version

TIP: By default, installing a new version of a PowerPack will overwrite all content in that PowerPack that has already been installed on the target system. You can use the **Enable Selective PowerPack Field Protection** setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent the new version of the PowerPack from overwriting local changes for some commonly customized fields.

NOTE: If you are currently using the Dynamic Applications in this PowerPack to monitor devices, collection errors might occur for one or two polling cycles during the installation of a new version. To prevent collection errors during an upgrade, you can optionally disable collection for monitored devices before performing the following steps and re-enable collection after the upgrade.

To install or upgrade the *Microsoft: Windows Server PowerPack*, perform the following steps:

1. Familiarize yourself with the [Known Issues](#) for this release.
2. See the [Before You Install or Upgrade](#) section. If you have not done so already, upgrade your system to the 10.1.0 or later release.
3. Download *Microsoft: Windows Server* version 112 from the Support Site to a local computer.
4. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the Actions menu and choose *Import PowerPack*. When prompted, import *Microsoft: Windows Server* version 112.
5. Click the Install button. For details on installing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.

For more information about using the PowerPack, see the **Monitoring Microsoft: Windows Server** manual.

Features

Version 112 of the *Microsoft: Windows Server PowerPack* includes the following features:

- Dynamic Applications that collect configuration and performance data about Windows Servers
- Event Policies that are triggered when Windows Server devices meet certain status criteria
- Device Classes for each type of Windows Server

NOTE: The Device Classes include older device types that can be discovered but are no longer supported by ScienceLogic.

- Run Book Policies and Run Book Actions that align a more detailed device class with each discovered device
- A sample Credential for discovering Windows Server devices

Enhancements and Issues Addressed

The following enhancements and addressed issues are included in version 112 of the *Microsoft: Windows Server PowerPack*:

- The PowerPack no longer supports Windows 2008.
- The following Dynamic Applications were added to the PowerPack:
 - Microsoft: Windows Server IC Port Performance
 - Microsoft: Windows Server IC Process Inventory
 - Microsoft: Windows Server IC Process Performance
 - Microsoft: Windows Server IC Process Service Cache
 - Microsoft: Windows Server IC Service Inventory

- Microsoft: Windows Server IC Service Performance
- Microsoft: Windows Server Service Configuration

NOTE: These Dynamic Applications are disabled by default. If you want to monitor devices using these Dynamic Applications while also monitoring the service status, you must enable the Dynamic Applications and enable the "Microsoft: Windows Server Start Automatic Services" automation policy.

- The following Dynamic Applications were added to the "Microsoft Windows Server Discovery Template" device template:
 - Microsoft: Windows Server IC Port Performance
 - Microsoft: Windows Server IC Process Inventory
 - Microsoft: Windows Server IC Process Performance
 - Microsoft: Windows Server IC Process Service Cache
 - Microsoft: Windows Server IC Service Inventory
 - Microsoft: Windows Server IC Service Performance
 - Microsoft: Windows Server Service Configuration
- The **Monitoring Windows Systems with PowerShell** manual was updated to include steps on how to use the "Microsoft: Windows Server Discovery Template" to discover Windows devices.
- The following content from the *Microsoft: Windows Server Services* PowerPack has been moved to the *Microsoft: Windows Server* PowerPack:
 - The "Microsoft: Windows Server Service Configuration" Dynamic Application
 - The "Microsoft: Windows Server Start Automatic Services" Run Book Policy
 - The "Microsoft: Windows Server Restart Automatic Service" Run Book Action
 - The "Microsoft: Windows Automatic Service is not running" and "Microsoft: Windows Automatic Service is now running" Event Policies

NOTE: If you previously had the *Microsoft: Windows Server Services* PowerPack installed on your system, you must disable it.

- The **Caching** field for the following Dynamic Applications was updated to be set to *No Caching* by default:
 - Microsoft: Windows Server BIOS Configuration
 - Microsoft: Windows Server Memory Configuration
 - Microsoft: Windows Server Software Configuration
- The following Dynamic Applications were updated to use the "Windows Server OS Configuration" request:
 - Microsoft: Windows Server Device Discovery
 - Microsoft: Windows Server OS Configuration
- The format of alert log messages were updated in the following Dynamic Applications:

- Microsoft: Print Server
- Microsoft: Windows Server Device Discovery
- Microsoft: Windows Server CPU Performance
- Microsoft: Windows Server Memory Performance
- The "Microsoft: Windows Server EE" execution environment was added to the PowerPack. This new execution environment affects the following Run Book Actions and Dynamic Applications:
 - Run Book Actions:
 - Microsoft: Windows Server Device Class Alignment
 - Microsoft: Windows Server Restart Automatic Service
 - Microsoft: Windows Server Unselect Dynamic Discovery
 - Dynamic Applications:
 - Microsoft: Windows Server DCM+R Relationship
 - Microsoft: Windows Server Device Discovery
 - Microsoft: Windows Server IC Detail
 - Microsoft: Windows Server IC Filesystem Inventory
 - Microsoft: Windows Server IC Filesystem Performance
 - Microsoft: Windows Server IC Interface Inventory
 - Microsoft: Windows Server IC Interface Performance
 - Microsoft: Windows Server IC Port Performance
 - Microsoft: Windows Server IC Process Inventory
 - Microsoft: Windows Server IC Process Performance
 - Microsoft: Windows Server IC Service Inventory
 - Microsoft: Windows Server IC Service Performance
 - Microsoft: Windows Server Service Configuration
- Support for whitespaces and special characters was added to the "Microsoft: Windows Server Restart Automatic Services" Run Book Action.
- The "Microsoft: Windows Server Process List" Dynamic Application was removed from the PowerPack.
- The "Microsoft: Windows Server Unselect Dynamic Discovery" Run Book Action was added to the PowerPack.

NOTE: The "Microsoft: Windows Server Unselect Dynamic Discovery" Run Book Action will run only for devices that are discovered after upgrading the PowerPack. It will not be triggered for devices that have already discovered.

- The log alerts were updated in the "Microsoft: Windows Server Disk Performance" Dynamic Application to include the "Current Value".

- The `winrm_configuration_wizard.ps1` script has been updated to set read permissions for the Security Reg Key for domain and local non-admin users.
- Users can now configure HTTPS listeners on systems with multiple server-authenticated certifications present. When you have multiple certificates installed on your server, running the `winrm_configuration_wizard.ps1` script without the `--silent` flag will allow you to select the certificate you want to use for your server.

NOTE: If this is not the first time you have run the `winrm_configuration_wizard.ps1` script, make sure you delete any previous HTTPS listeners with the following command: `winrm delete winrm/config/Listener?Address=*+Transport=HTTPS`

- Users can now configure and start HTTPS listeners on a device entirely within a Group Policy by entering a command on the device to be monitored.

NOTE: The steps for this process have been documented in the "Configuring Devices for Monitoring with PowerShell" chapter of the *WMI and PowerShell Dynamic Application Development* manual.

- The "Microsoft: Windows Server CPU Performance" Dynamic Application was removed from the "SL1 Agent for Microsoft: Windows Server Template" device template.
- The "Microsoft: Windows Server Memory Configuration" Dynamic Application was updated to avoid decimals appearing in the Windows virtual memory value.
- The collection object "Total Cores" was added to the "Microsoft: Windows Server CPU Configuration" Dynamic Application to display the correct number of CPU cores in a device.
- New collection objects for process, ports, and service requests were added to the "Microsoft: Windows Server IC Cache Trigger" Dynamic Application.
- The "Microsoft: Windows Server Performance Cache" and "Microsoft: Windows Server Configuration Cache" Dynamic Applications were updated to remove unused variables from their PowerShell requests.
- The "Microsoft: Windows Server Memory Configuration" and "Microsoft: Windows Server Configuration Cache" Dynamic Applications were updated to address an issue in which available physical memory was appearing instead of total physical memory. Total physical memory will now appear as a multiple of 1024 in Megabytes.
- The "Windows Server Interface Configuration" PowerShell request in the "Microsoft: Windows Server Performance Cache" Dynamic Application was updated to collect network information from the servers when using a proxy. As a result, some collection object names have been changed and the Dynamic Applications that reference this request have been updated.
- Support was added for Mount Point drives to the following Dynamic Applications:
 - Microsoft: Windows Server Disk Configuration
 - Microsoft: Windows Server IC Filesystem Inventory
 - Microsoft: Windows Server IC Filesystem Performance
- An issue was addressed in the "Windows Server Service Configuration" Dynamic Application in which the Dynamic Application was not handling non-English or special characters. The Dynamic Application now

converts these characters to an empty space.

- The following Dynamic Applications were updated to address errors that were occurring in the IC process:
 - Microsoft: Windows Server IC Detail
 - Microsoft: Windows Server IC Filesystem Inventory
 - Microsoft: Windows Server IC Filesystem Performance
 - Microsoft: Windows Server IC Interface Inventory
 - Microsoft: Windows Server IC Interface Performance
 - Microsoft: Windows Server IC Port Inventory
 - Microsoft: Windows Server IC Service Performance
- A new attribute was added to the "Microsoft: Windows Server IC Filesystem Inventory" and "Microsoft: Windows Server IC Filesystem Performance" Dynamic Applications to convey the collection status as SUCCESS or FAILURE. Internal collection will use this status to not raise false alerts.

Known Issues and Workarounds

The following known issues affect version 112 of the *Microsoft: Windows Server PowerPack*:

- If the list of IP addresses assigned to an interface is longer than 235 characters, the "Microsoft: Windows Server Interface Configuration" Dynamic Application will strip the list of IP addresses after 235 characters and the following will appear in the logs:

```
90.PoolWorker-2.Extended_Internal_Collection: Skipping IPv6 Address due to powershell collector characters limit of 235 chars. did: <did> app_id: <app_id> Interface: <if>
```

```
90.PoolWorker-2.Extended_Internal_Collection: Skipping IPv4 Address due to powershell collector characters limit of 235 chars. did: <did> app_id: <app_id> Interface: <if>
```

If an IPv4 address is invalid, the "Microsoft: Windows Server Interface Configuration" Dynamic Application will remove the address and the following notice will appear in the logs:

```
90.PoolWorker-2.Extended_Internal_Collection: Skipping IPv4 Mask due to powershell collector characters limit of 235 chars. did: <did> app_id: <app_id> Interface: <if>
```

- When updating the PowerPack, in the "Microsoft: Windows Server IC Interface Inventory" Dynamic Application, corrupted IPs with empty spaces, curly brackets ({}), or ellipses (...) will need to be deleted.

The first step is to review the rows that will be deleted with the following query in the SL1 database:

```
SELECT id, did, ip, netmask FROM master_dev.device_ip_addr WHERE ip REGEXP '^( ([{}]|([{}])$)|([.]{3}$)|([...])$|(\s))';
```

(This step is very important because it will display all rows that will be deleted in the second step.)

The second step is to delete the rows if the customer is satisfied with the results. Use the following query in the SL1 database:

```
DELETE FROM master_dev.device_ip_addr WHERE ip REGEXP '^( ([{}]|([{}])$)|([.]{3}$)|([...])$|(\s))';
```

(After running this query, it can't be reverted.)

- The "Microsoft: Windows Server Disk Performance" and "Microsoft: Windows Server Interface Performance" Dynamic Applications will produce errors and data will not be collected if your language is set as Turkish.
- For mount point paths, all instances of "\" have been changed to "/" in the "Windows: Server IC Filesystem Inventory" and "Windows: Server IC Filesystem Performance" Dynamic Applications. Drives that are hidden will not be loaded, but will be visible in the "Microsoft: Windows Server Disk Configuration" Dynamic Application.
- The **Collector Affinity** setting for Windows Server IC Dynamic Applications changes to *Default* if there are any changes made under the **Properties** tab. To keep the setting as *Assigned Collector*, run the following query:

```
UPDATE master.dynamic_app SET cu_affinity=2 WHERE ppguid IN ('<PP-GUID>');
```

- If you use the "Microsoft: Windows Server IC Interface Performance" Dynamic Application to populate interface performance data, then you cannot enable the **Packets** setting on the **Interface Properties** page (Registry > Networks > Interfaces > interface wrench icon) without causing an unhandled exception.

- The "Microsoft: Windows Server Software Configuration" Dynamic Application cannot properly parse installation dates that are not in yyyy-mm-dd hh:mm:ss format, such as "Wed Jul 05 12:41:46 EDT 2017".
- The Dynamic Applications with "Microsoft: Windows Server IC" in the name may not align to newly discovered devices until Nightly Discovery runs.

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