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# Microsoft: Windows Server PowerPack Release Notes

Version 117

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## Overview

Version 117 of the *Microsoft: Windows Server PowerPack* updates several Dynamic Applications and libraries version.

- **Minimum Required SL1 Version:** 12.1.0

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## Before You Install or Upgrade

Ensure that you are running version 12.1.0 or later of SL1 before installing "Microsoft: Windows Server" PowerPack version 117.

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

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## 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 this PowerPack:

1. Search for and download the PowerPack from the **PowerPacks** page (Product Downloads > PowerPacks & SyncPacks) at the [ScienceLogic Support Site](#).
2. In SL1, go to the **PowerPacks** page (System > Manage > PowerPacks).
3. Click the **Actions** menu and choose *Import PowerPack*. The **Import PowerPack** modal appears.
4. Click **[Browse]** and navigate to the PowerPack file from step 1.
5. Select the PowerPack file and click **[Import]**. The **PowerPack Installer** modal displays a list of the PowerPack contents.
6. Click **[Install]**. The PowerPack is added to the **PowerPack Manager** page.

**WARNING:** The IC Dynamic Applications are disabled by default. If you are currently using the IC Dynamic Applications to monitor devices, they will be disabled again after installing a new version of this PowerPack. ScienceLogic recommends that you use **Enable PowerPack Field Protection**, or to re-enable them after the installation is completed.

For more information about using the PowerPack, see the [Monitoring Windows Systems with PowerShell](#) manual.

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## Features

This release 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
- A Credential Test to ensure that your Windows credential works as expected

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## Enhancements and Issues Addressed

The following enhancements and addressed issues are included in version 117 of the "Microsoft: Windows Server" PowerPack:

- Updated the "Windows Server Process Details - ICDA" PowerShell request in the "Microsoft: Windows Server IC Process Service Cache" Dynamic Application to catch errors when merging process collections.

(Case: 00409172)

- Updated the snippets of "Microsoft: Windows Server IC Process Inventory" and "Microsoft: Windows Server IC Process Performance" Dynamic Applications to verify the length of the command line variable and avoid tripping the "IndexError: list index out of range error" message. (Case: 00423993)
- Updated the snippets in the "Microsoft: Windows Server IC FileSystem Inventory" Dynamic Application to more accurately report disk size. (Case: 00410752)
- Added the 'DO\_REGEX' flag to the snippets of the "Microsoft: Windows Server Service Configuration" Dynamic Application. This flag can be manually adjusted to enable or disable the use of regex for adding services to the services blocklist. (Case: 00377286)
- Updated the PowerShell request of the "Microsoft: Windows Server BIOS Configuration" Dynamic Application to be compatible with *pypsrp* when the Concurrent PowerShell is enabled.
- Updated the "Microsoft: Windows Server Memory Performance" PowerShell request in the "Microsoft: Windows Server Performance Cache" Dynamic Application to work with extended characters in the page filename/path. (Case: 00373383) (Case: 00428292)
- Updated the PowerShell request "Windows Server Details - ICDA" in the "Microsoft: Windows Server Performance Cache" Dynamic Application to be compatible with *pypsrp* when Concurrent PowerShell is enabled. (Case: 00367221)
- Updated the "WinRM Configuration Wizard" Script to include the **ViewAnyDefinition** to the list of permissions assigned when creating or configuring minimal permissions for a SQL Server user. For more information about the script, see [Monitoring Windows Systems with PowerShell](#).
- Updated "Microsoft: Windows Server IC Interface Inventory" and "Microsoft: Windows Server Services Configuration" to remove outdated terminology in the code.
- Updated the "Windows Server Service Details - ICDA" PowerShell request in the "Microsoft: Windows Server IC Process Service Cache" Dynamic Application to support special characters.
- Updated the PowerShell request "Windows Server Interface Configuration" in the "Microsoft: Windows Server Performance Cache" Dynamic Application to add an index column of **Index**. This allows the parser to find all individual interfaces.
- Updated the silo\_apps content library to version 5.1.5. Updated the silo\_api\_support content library to 0.1.4.
- Updated the Numeric Range value to 500 for the **Pages Per Second Numeric High** threshold in the "Microsoft: Windows Server Memory Performance" Dynamic Application.
- Updated the **[Percentage]** threshold to **[Integer]** and changed the numeric range high value setting to 101 for the following Dynamic Applications threshold values:
  - Microsoft: Windows Server Memory Performance>Memory Usage High
  - Microsoft: Windows Server Memory Performance>Paging File Usage High
  - Microsoft: Windows Server Disk Performance> % Disk Time High

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## Known Issues and Workarounds

The following known issues affect version 117 of the *Microsoft: Windows Server PowerPack*:

- Customers running version 12.1 of SL1 must manually update the threshold values for the "SL1 Agent for Microsoft: Windows Server Template" device template after installing the PowerPack.
- Windows Server Process and Service monitoring will not work in environments in which Constrained Language mode is enabled for PowerShell.
- 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. 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 will display all rows that will be deleted in the next step.

Use the following query in the SL1 database to delete the rows:

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

The deletion cannot be reversed after running this query.

- Dynamic Applications will produce errors and data will not be collected if your language is set to anything other than English (i.e. Turkish, Portuguese).
- 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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ScienceLogic

800-SCI-LOGIC (1-800-724-5644)

International: +1-703-354-1010