Microsoft: Azure PowerPack Release Notes

Version 103

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Overview

Microsoft: Azure PowerPack version 103 includes multiple improvements and new features.

- **Minimum Required Platform Version**: 8.3.0
- **Support Status**: GA

This document describes:

- *Pre-install or pre-upgrade information*
- *The installation process for the PowerPack*
- *The upgrade process for the PowerPack*
- *The features included in version 103*
- *The enhancements and issues addressed in version 103*
- *The known issues that affect version 103*

Before You Install or Upgrade

Ensure that you are running version 8.3.0 or later of the ScienceLogic platform before installing the *Microsoft: Azure* PowerPack version 103.

NOTE: For details on upgrading the ScienceLogic platform, see the appropriate ScienceLogic Release Notes.

Installing Microsoft: Azure PowerPack version 103

To install the *Microsoft: Azure* PowerPack ***for the first time*** (that is, if you have never installed a *Microsoft: Azure* PowerPack before), 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 8.3.0 or later release.
3. Download version 103 of the *Microsoft: Azure* PowerPack from the Customer Portal 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 version 103 of the *Microsoft: Azure* PowerPack.
5. After importing the PowerPack, you will be prompted to install the PowerPack. Click the Install button to install the PowerPack.
6. See the manual ***Monitoring Microsoft Azure*** for instructions on using the new PowerPack.

Upgrading the PowerPack

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 the *Microsoft: Azure* 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.

Please note that the following Dynamic Applications are force-removed from the ScienceLogic platform during the upgrade to version 103:

- Microsoft: Azure Diagnostic Configuration
- Microsoft: Azure Recovery Jobs Service Discovery
- Microsoft: Azure Backup Jobs Discovery
- Microsoft: Azure Backup Policies Service Discovery
- Microsoft: Azure Backup Policy Discovery

To upgrade the *Microsoft: Azure* from a previous version:

1. Familiarize yourself with the ***Known Issues*** for this release.
2. See the ***Before You Upgrade*** section. If you have not done so already, upgrade your system to the 8.3.0 or later release.
3. Download version 103 of the *Microsoft: Azure* PowerPack from the Customer Portal to a local computer.
4. Before importing and installing version 103 of the PowerPack, you must disable the existing tree of Azure parent and component devices, recursively. To do so, go to the **Device Components** page (Registry > Devices > Device Components) and collapse the root Azure component device. Select the device's checkbox, then click the ***Select Action*** drop-down menu. Under **Change Collection State**, select *Disabled (recursive)*, and then click **[Go]**.
5. Because the following Dynamic Applications are force-removed when you upgrade to version 103, you must manually remove the device components discovered by these Dynamic Applications.

    - Microsoft: Azure Recovery Jobs Service Discovery
    - Microsoft: Azure Backup Jobs Discovery
    - Microsoft: Azure Backup Policies Service Discovery
    - Microsoft: Azure Backup Policy Discovery

6. Go to the **Device Manager** page (Registry > Devices > Device Manager.
7. Filter the list of devices by Device Class | Sub-Class. Type the following in the filter:

   Backup Policies Service, Backup Policy, Jobs Service, Backup Job

8. The **Device Manager** page now displays only devices with the specified device classes. Click the **Select All** checkbox in the upper right to select all these devices.
9. Click on the Select Action field, and choose ***DELETE Selected Devices***. Click the Go button. Confirm that you want to delete the device.
10. Next, you must delete the device classes associated with the Dynamic Applications that are force-removed when you upgrade to version 103. Go to the **Device Class Editor** page (System > Customize > Device Classes).
11. You must filter the list of device classes. To do so, enter the following:

    - ***Device Class***. In this filter, tpye *Microsoft*.
    - ***Description***. In this field , type *Backup Policies Service, Backup Policy, Jobs Service, Backup Job*.

12. The **Device Class Editor** page should now display only the four device classes with these descriptions:

    - Azure Backup Job
    - Azure Backup Policies Service
    - Azure Backup Policy
    - Azure Jobs Service

13. Click the Select Action field, choose ***DELETE Device Classes***, and click the Go button. Confirm that you want to delete the device.
14. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the Actions menu and choose *Import PowerPack*. Import the *Microsoft: Azure* version 103 PowerPack. For details on importing PowerPacks, see the chapter on *Installing a PowerPack* in the ***PowerPacks*** manual.
15. Click the Install button. For details on installing PowerPacks, see the chapter on *Installing a PowerPack* in the ***PowerPacks*** manual.
16. You must now enable the existing tree of Azure parent and component devices, recursively. To do so, go to the **Device Components** page (Registry > Devices > Device Components) and collapse the root Azure component device. Select the device's checkbox, then click the ***Select Action*** drop-down menu. Under **Change Collection State**, select *Enabled (recursive)*, and then click **[Go]**.
17. See the manual ***Monitoring Microsoft Azure*** for instructions on using the new PowerPack.

Features

Microsoft: Azure PowerPack version 103 includes the following features:

- Dynamic Applications (51) that enable the ScienceLogic platform to discover, model, and monitor performance metrics and collect configuration data for Azure resources

- Event Policies (22) that are triggered when Azure resources meet certain status criteria
- Device Classes (145) for each Azure data center location and all of the Azure resources that the ScienceLogic platform monitors
- An example credential (1) for discovering Azure resources

Enhancements and Issues Addressed

The following changes are included in version 103 of the *Microsoft: Azure* PowerPack:

- The following new Dynamic Applications have been added to discover and collect data for Azure Load Balancers:
    - Microsoft: Azure Load Balancer Discovery
    - Microsoft: Azure Load Balancer Service Discovery
    - Microsoft: Azure Load Balancer Configuration
- The following Dynamic Applications have been added or updated to collect additional data for the specified device classes:
    - Microsoft: Azure Backup Job Performance
    - Microsoft: Azure Backup Policy Configuration
    - Microsoft: Azure Backup Protected Items Configuration
    - Microsoft: Azure Recovery Services Vault Configuration
    - Microsoft: Azure Virtual Machine Configuration
    - Microsoft: Azure Virtual Network Configuration
- The Dynamic Applications in the PowerPack have been updated to create relationships between Azure Virtual Machines and Azure Subnets.
- The Dynamic Applications in the PowerPack have been updated to create relationships between Azure Recovery Services vaults and Azure Resource Groups.
- All of the Dynamic Applications in the PowerPack were updated to version 1.0.
- The "Microsoft: Azure Virtual Machine Performance" Dynamic Application was updated to enable metrics collection using the Microsoft Azure Monitor REST API instead of via a diagnostic storage account. With this change, you no longer need to enable diagnostic settings for Virtual Machines, and the Dynamic Application can now monitor performance data for Linux Virtual Machines hosted in Azure.
- The following Device Classes for Locations have been added to the PowerPack:
    - Korea Central
    - Korea South
- This version fixed an issue that prevented Azure N series virtual machines (GPU-enabled virtual machines) from collecting data for CPU Utilization, Disk Read Bytes/Second, and Disk Write Bytes/Second.

- The PowerPack content library was updated to support the ability to monitor Azure subscriptions through a proxy server. To use this functionality, you will need to populate the Proxy Settings section of the SOAP/XML credential used to monitor Azure. (For more information, see the ***Monitoring Microsoft Azure*** manual.)
- If you are running previous versions of the PowerPack, the Dynamic Application "Microsoft: Azure Diagnostic Configuration" is force-removed from your system upon installation of version 103. The Dynamic Application "Microsoft: Azure Diagnostic Configuration" is deprecated, and its functionality is replaced with updated Dynamic Applications that use the Microsoft Azure Monitor REST API.
- This version fixed an issue where service containers were persisting in the the ScienceLogic platform after all components were removed from the container.
- This version fixed an issue where the Dynamic Application "Microsoft: Azure Virtual Machine Discovery" was not automatically assigning a device class to each discovered device.
- This version fixed an issue in the Dynamic Application "Microsoft: Azure Virtual Machine Configuration" where on the **Configuration Report** page, the VM Network Security Groups Relationships was not displaying the names of all the NICs.

Known Issues

- If an existing Azure component device is discovered and then later deleted in the Azure Resource Manager (ARM) Portal, the ScienceLogic platform might generate an error in the device if the component has not yet vanished in the the ScienceLogic platform. The error would likely be, "Response code was not ok. The resource '[*name*]' under resource group '[*group*]' was not found." Also, because the *Microsoft: Azure* PowerPack uses cache-producing and cache-consuming applications, there could be a time delay before deleted components are shown as unavailable.
- When component devices are deleted from the ARM Portal, the following error message appears in the device logs for component devices that have not been deleted: "The Resource '[name]' under resource group '[group]' was not found." This error message should display only for the deleted device.
- When upgrading to *Microsoft: Azure* PowerPack version 103, the "Microsoft: Azure Virtual Machine" Dynamic Application might generate errors related to the deprecated metrics. The errors are spurious and will not re-occur.
- The Microsoft Azure Monitor REST API does not currently support the collection of memory counters or TCP segment data. Therefore, the "Microsoft: Azure Virtual Machine Performance" Dynamic Application no longer collects the following metrics: Memory Average, Memory Utilization, TCP Segments Received/Second, TCP Segments Sent/Second, TCP Segments Retransmitted/Second. However, the "Microsoft: Azure Virtual Machine Performance" Dynamic Application now collects metrics for CPU usage, disk reads, disk writes, incoming network traffic, and outgoing network traffic.

Workarounds

Version 103 fixed an issue where the Dynamic Application "Microsoft: Azure Virtual Machine Discovery" was not automatically assigning a device class to each discovered device.

Therefore, if you are upgrading from a previous version of the *Microsoft: Azure* PowerPack, after the upgrade you must either re-discover the Azure Virtual Machine devices that previously had no device class, or you must manually assign the device class "Microsoft | Azure Virtual Machine Service" to each of those devices.

To manually re-discover the Azure Virtual Machine devices that previously had no device class:

1. Go to the Dynamic Applications Manager page (System > Manage > Applications.
2. Find the Dynamic Application "Microsoft: Azure Virtual Machine Discovery" and select its checkbox.
3. Click on the Select Action field, and choose ***DISCOVER Applications***. Click the Go button.

To manually assign a device class to the Azure Virtual Machine devices, perform these steps on each device:

1. Go to the **Device Manager** page (Registry > Devices > Device Manager.
2. Find the device you want to edit. Select its wrench icon ().
3. In the **Device Properties** page, find the ***Device Class*** field. Select the toolbox icon().
4. In the **Select New Device Class** modal page, select the device class that matches the Azure Virtual Machine in both size and type.
5. The newly selected device class is now associated with the device.

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