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# Microsoft: Azure PowerPack Release Notes

Version 105

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## Overview

*Microsoft: Azure PowerPack* version 105 introduces the ability to monitor Microsoft Azure Government accounts and resources.

- **Minimum Required Platform Version:** 8.4.0
- **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 105](#)
- [The enhancements and issues addressed in version 105](#)
- [The known issues that affect version 105](#)

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## Before You Install or Upgrade

Ensure that you are running version 8.4.0 or later of the ScienceLogic platform before installing the *Microsoft: Azure PowerPack* version 105.

**NOTE:** For *Microsoft: Azure PowerPack* version 105, Data Collectors running CentOS cannot discover and monitor Microsoft Azure Government subscriptions.

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

**TIP:** Prior to using the multiple subscription functionality introduced in version 104, ScienceLogic recommends that you review your device capacity and load limits to determine the best method for implementation.

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## Installing Microsoft: Azure PowerPack version 105

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 8.4.0 or later release.
3. Download version 105 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 105 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.

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## Upgrading the Microsoft: Azure PowerPack from Version 104

**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.

To upgrade the *Microsoft: Azure* from version 104:

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 8.4.0 or later release.
3. Download version 105 of the *Microsoft: Azure PowerPack* from the Customer Portal to a local computer.
4. Before importing and installing version 105 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)
  - Collapse the root Azure component device.
  - Select the root Azure device's checkbox.
  - Click the **Select Action** drop-down menu. Under **Change Collection State**, select *Disabled (recursive)*, and then click **[Go]**.
5. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. Import the *Microsoft: Azure* version 105 PowerPack. For details on importing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.

6. Click the **[Install]** button. For details on installing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.
7. If you are implementing the multiple subscription feature, go to the **Credential Management** page (System > Manage > Credentials) and create a new credential or edit an existing one as needed for use with the multiple subscription configuration. (For more information, see the manual **Monitoring Microsoft Azure**.)
8. 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)
  - Collapse the root Azure component device.
  - Select the root Azure component device's checkbox.
  - Click the **Select Action** drop-down menu. Under **Change Collection State**, select *Active (recursive)*, and then click **[Go]**.

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## Upgrading from a Microsoft: Azure PowerPack Version Prior to v104

To upgrade the *Microsoft: Azure* from a version earlier than v104:

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 8.4.0 or later release.
3. Download version 105 of the *Microsoft: Azure* PowerPack from the Customer Portal to a local computer.
4. Before importing and installing version 105 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).
  - Collapse the root Azure component device.
  - Select the root Azure component device's checkbox
  - Click the **Select Action** drop-down menu. Under **Change Collection State**, select *Disabled (recursive)*, and then click **[Go]**.
4. Because the following Dynamic Applications were force-removed from v103 and v104, when you upgrade to version 105, you must manually remove the device components discovered by these Dynamic Applications.
  - Microsoft: Azure Backup Jobs Discovery
  - Microsoft: Azure Backup Policies Service Discovery
  - Microsoft: Azure Backup Policy Discovery
  - Microsoft: Azure Recovery Jobs Service Discovery
  - Microsoft: Azure Storage Blob Configuration
  - Microsoft: Azure Storage Blob Discovery

- Microsoft: Azure Storage Container Discovery
  - Microsoft: Azure Storage Table Discovery
  - Microsoft: Azure Storage Queue 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:
 

*Azure Storage Container, Azure Storage Blob, Azure Storage Queue, Azure Storage Table, 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 were force-removed. 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, type *Microsoft*.
    - **Description**. In this field, type *Backup Policies Service, Backup Policy, Jobs Service, Backup Job, Azure Storage Container, Azure Storage Blob, Azure Storage Queue, Azure Storage Table*.
  12. The **Device Class Editor** page should now display only the following device classes:
    - Azure Backup Job
    - Azure Backup Policies Service
    - Azure Backup Policy
    - Azure Jobs Service
    - Microsoft Azure Storage Container
    - Microsoft Azure Storage Blob
    - Microsoft Azure Storage Table
    - Microsoft Azure Storage Queue
  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 105* 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).
  - Collapse the root Azure component device.
  - Select the root Azure component device's checkbox.
  - 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.

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## Features

*Microsoft: Azure* PowerPack version 105 includes the following features:

- Dynamic Applications that enable the ScienceLogic platform to discover, model, and monitor performance metrics and collect configuration data for Azure resources
- Event Policies that are triggered when Azure resources meet certain status criteria
- Device Classes for each Azure data center location, each Azure Government location, and all of the Azure resources that the ScienceLogic platform monitors
- Example credentials for discovering Azure resources, including a new example credential for Microsoft Azure Government subscribers

**NOTE:** *Microsoft: Azure* PowerPack version 105 includes support for Microsoft Azure Government subscribers.

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## Enhancements and Issues Addressed

The following changes are included in version 105 of the *Microsoft: Azure* PowerPack:

- Support for Microsoft Azure Government subscribers, including:
  - A new example credential
  - New locations (DoD Central, DoD East, US Gov Arizona, US Gov Iowa, US Gov Texas, and US Gov Virginia)
  - Monitoring of Azure Government resources
  - Updated content libraries and snippet code in Dynamic Applications to support Microsoft Azure Government subscribers
- Addressed an issue with the Dynamic Application "Microsoft: Azure Virtual Machine Configuration". The Dynamic Application now correctly retrieves and formats the collection object "OS Disk Size" and displays the value in GB.

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## Known Issues

- After upgrading from a single subscription to a multi-subscription by removing the Subscription ID in the credential's **Embed Value [%3]** field, a "Storage Object Failure due to DEADLOCK" error appears in the system log. This error is erroneous and might repeat a few times.
- When discovering a large number of component devices, the discovery process can cause the appearance of numerous critical events with the message, "Large backlog of asynchronous jobs detected".
- The Dynamic Application "Microsoft: Azure Backup Policy Configuration" retrieves an additional parameter (HourlyLogBackup) that is not displayed in the Azure portal. The parameter does not contain a value. This issue is caused by a parameter being available in the Azure API but not in the Azure portal.

**NOTE:** This issue does not occur for Microsoft Azure Government subscribers.

- In Microsoft Azure, no count appears for Recovery Service Vault>Backup items> Azure Backup Server. This is a bug in the Azure API.
- The API for Microsoft Azure Government does not currently provide performance data for Azure Application Gateways. This is a bug in the Azure API.
- The API for Microsoft Azure Government does not currently support the following performance data for Azure SQL Databases: deadlock, dtu\_consumption\_percent, dtu\_limit, dtu\_used, log\_write\_percent, sessions\_percent, storage, storage\_percent, workers\_percent, and xtp\_storage\_percent. This is a bug in the Azure API.

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## 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.

As a result, if you are upgrading from a version of the *Microsoft: Azure PowerPack* prior to version 103, 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 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 and select its wrench icon (.
3. In the **Device Properties** page, find the **Device Class** field and 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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