



Microsoft: Azure PowerPack Release Notes

Version 116

Overview

Version 116 of the *Microsoft: Azure PowerPack* includes new Dynamic Applications, new event policies, and updates to run book actions.

- **Minimum Required SL1 Version:** 10.2.0

<i>Before You Install or Upgrade</i>	2
<i>Installation Process</i>	3
<i>Upgrading the Microsoft: Azure PowerPack from Version 104 and Later</i>	3
<i>Upgrading from a Microsoft: Azure PowerPack Version Prior to v104</i>	4
<i>Features</i>	6
<i>Enhancements and Issues Addressed</i>	6
<i>Known Issues</i>	8
<i>Workarounds</i>	8

Before You Install or Upgrade

Ensure that you are running version 10.2.0 or later of SL1 before installing *Microsoft: Azure* version 116.

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

NOTE: As of *Microsoft Azure ClassicPowerPack* version 106, Data Collectors running CentOS can no longer discover and monitor Microsoft Azure.

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.

Installation Process

To install this PowerPack:

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 10.2.0 or later release.
3. Download the *Microsoft: Azure* version 116 PowerPack 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: Azure* version 116.
5. Click the **[Install]** button. For details on installing PowerPacks, see the chapter on *Installing a PowerPack* in the **PowerPacks** manual.

See the manual *Monitoring Microsoft Azure* for instructions on using the new PowerPack.

Upgrading the Microsoft: Azure PowerPack from Version 104 and Later

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* PowerPack from version 104 and later:

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 minimum required platform version or later release.
3. Download this version of the PowerPack from the Support Site to a local computer.
4. Before importing and installing this version 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 Version 116 of the *Microsoft: Azure* 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]**.

Upgrading from a Microsoft: Azure PowerPack Version Prior to v104

To upgrade the *Microsoft: Azure* PowerPack 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 minimum required platform version or later release.
3. Download this version of the PowerPack from the Support Site to a local computer.
4. Before importing and installing this version 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]**.
5. Because the following Dynamic Applications were force-removed from v103 and v104, when you upgrade to version 111, 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. Filter the list of Device Classes. To do so, enter the following:
 - **Device Class**. In this field, 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 this version of the 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. 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.

Features

Version 116 of the *Microsoft: Azure* PowerPack includes the following features:

- Dynamic Applications that enable SL1 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 and all of the Azure resources that SL1 monitors
- Example credentials for discovering Azure resources
- A Credential Test to ensure that your Azure credential works as expected
- Run Book Action and Automation policies that can automate certain Azure monitoring processes

Enhancements and Issues Addressed

The following enhancements and addressed issues are included in version 116 of the *Microsoft: Azure* PowerPack:

- The "snippet_jobs" and "snippet_runbooks" snippets were added to the "Microsoft: Azure Automation Configuration" Dynamic Application to allow the user to use the "FILTER_DAYS" property to set the number of days by which they want to filter data.
- The following Dynamic Applications were added to the PowerPack:
 - Microsoft: Azure Automation Configuration
 - Microsoft: Azure Automation Discovery
 - Microsoft: Azure Automation Performance
 - Microsoft: Azure Automation Service Discovery
 - Microsoft: Azure HDInsight Cluster Applications Configuration
 - Microsoft: Azure HDInsight Cluster Configuration
 - Microsoft: Azure HDInsight Cluster Counter Performance
 - Microsoft: Azure HDInsight Cluster Discovery
 - Microsoft: Azure HDInsight Cluster Performance

- Microsoft: Azure HDInsight Cluster Script Actions Configuration
- Microsoft: Azure HDInsight Cluster Service Discovery
- Microsoft: Azure Host Pool Configuration
- Microsoft: Azure Host Pool Discovery
- Microsoft: Azure Host Pool Performance
- Microsoft: Azure Host Pool Service Discovery
- Microsoft: Azure Logic App Configuration
- Microsoft: Azure Logic App Discovery
- Microsoft: Azure Logic App Performance
- Microsoft: Azure Logic App Service Discovery

NOTE: Logic App resources created with a standard plan type will be treated as Azure Function App resources.

- The "Microsoft: Azure Active Directory Tenant Discovery" Dynamic Application was updated to display an alert message in its debug log when there are incorrect permissions for the API Application ID.
- The "Microsoft: Azure DNS Zone Configuration" Dynamic Application was updated to address an issue with DNS/Resource group DCM+R relationships.
- The "Name" collection object ("em7Subnets-name") in the "Microsoft: Azure Cache for Redis Configuration" Dynamic Application was updated to change its **Usage Type** to *Standard*.
- The following device classes were added to the PowerPack:
 - Azure Automation Resource
 - Azure Automation Service
 - Azure HDInsight Cluster
 - Azure HDInsight Cluster Service
 - Azure Host Pool
 - Azure Host Pool Service
 - Azure Logic Apps
 - Azure Logic Apps Service
- Icons for the following services were added in the SL1 classic user interface:
 - Azure Automation Service
 - Azure Data Factory
 - Azure HDInsight
 - Azure Logic App
 - Azure SQL Managed Instance
 - Azure Windows Virtual Desktop

Known Issues

The following known issues affect version 116 of the *Microsoft: Azure PowerPack*:

- If you encounter a 529 error, this is usually a temporary issue with the Microsoft API service.
- Some environments could experience an issue when installing the PowerPack in which the installation window will show that the PowerPack is still installing when the PowerPack has finished being installed. If this occurs, users can close the window and check the PowerPack version number in the **PowerPack Manager** page (System > Manage > PowerPacks) to confirm that installation has completed.
- The PowerPack will not install on SL1 systems configured to be Federal Information Processing Standards (FIPS)-compliant until the new user interface available with SL1 version 10.1.0 and later supports FIPS systems.
- SVG icons for device classes in AP2 are not available in this version.
- The default metric System Availability requires an availability report every five minutes by default. However, the "Microsoft Azure: Virtual Machine Discovery" Dynamic Application runs every 15 minutes by default, which causes gaps in the data. To avoid seeing gaps in System Availability, reduce the default poll time for the Discovery Dynamic Application to five minutes.
- 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.

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 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.

© 2003 - 2022, ScienceLogic, Inc.

All rights reserved.

LIMITATION OF LIABILITY AND GENERAL DISCLAIMER

ALL INFORMATION AVAILABLE IN THIS GUIDE IS PROVIDED "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. SCIENCELOGIC™ AND ITS SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

Although ScienceLogic™ has attempted to provide accurate information on this Site, information on this Site may contain inadvertent technical inaccuracies or typographical errors, and ScienceLogic™ assumes no responsibility for the accuracy of the information. Information may be changed or updated without notice. ScienceLogic™ may also make improvements and / or changes in the products or services described in this Site at any time without notice.

Copyrights and Trademarks

ScienceLogic, the ScienceLogic logo, and EM7 are trademarks of ScienceLogic, Inc. in the United States, other countries, or both.

Below is a list of trademarks and service marks that should be credited to ScienceLogic, Inc. The ® and ™ symbols reflect the trademark registration status in the U.S. Patent and Trademark Office and may not be appropriate for materials to be distributed outside the United States.

- ScienceLogic™
- EM7™ and em7™
- Simplify IT™
- Dynamic Application™
- Relational Infrastructure Management™

The absence of a product or service name, slogan or logo from this list does not constitute a waiver of ScienceLogic's trademark or other intellectual property rights concerning that name, slogan, or logo.

Please note that laws concerning use of trademarks or product names vary by country. Always consult a local attorney for additional guidance.

Other

If any provision of this agreement shall be unlawful, void, or for any reason unenforceable, then that provision shall be deemed severable from this agreement and shall not affect the validity and enforceability of any remaining provisions. This is the entire agreement between the parties relating to the matters contained herein.

In the U.S. and other jurisdictions, trademark owners have a duty to police the use of their marks. Therefore, if you become aware of any improper use of ScienceLogic Trademarks, including infringement or counterfeiting by third parties, report them to Science Logic's legal department immediately. Report as much detail as possible about the misuse, including the name of the party, contact information, and copies or photographs of the potential misuse to: legal@sciencelogic.com

ScienceLogic

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

International: +1-703-354-1010