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# Microsoft: Azure PowerPack Release Notes

Version 121

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# Overview

Version 121 of the *Microsoft: Azure PowerPack* adds new Dynamic Applications and Device Classes, updates the "Microsoft: Azure Resource Group" configuration, and updates the "Microsoft: Azure Collect VM Configuration" run book action policy.

- **Minimum Required SL1 Version:** 11.3.0

This document covers the following topics:

<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>Features</i> .....	4
<i>Enhancements and Issues Addressed</i> .....	4
<i>Known Issues</i> .....	5

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## Before You Install or Upgrade

Ensure that you are running version 11.3.0 or later of SL1 before installing "Microsoft: Azure" PowerPack version 121.

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

**NOTE:** As of *Microsoft Azure Classic PowerPack* 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.

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## Installation Process

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.

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 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 121 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]**.

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## Features

This release 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

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## Enhancements and Issues Addressed

The following enhancements and addressed issues are included this release of the "Microsoft: Azure" PowerPack:

- Added the following to the PowerPack:
  - Dynamic Applications
    - Microsoft: Azure ExpressRoute Direct Service Discovery
    - Microsoft: Azure ExpressRoute Direct Discovery
    - Microsoft: Azure ExpressRoute Direct Configuration
    - Microsoft: Azure ExpressRoute Direct Performance

- Device Classes
  - ExpressRoute Direct Service
  - ExpressRoute Direct Device
- Added the Resource Group ID to the configuration information of the "Microsoft: Azure Resource Group" configuration.
- Updated the "Microsoft: Azure Collect VM Configuration" run book action policy to use a common API version for virtual machines and virtual machines that are in a scaleset. (Case: 00420185)

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## Known Issues

The following known issues affect version 121 of the *Microsoft: Azure PowerPack*:

- The "Azure Credential Test - ARM" will not work in version 12.2.1 of SL1.
- There is an issue with device groups in SL1 that may affect the execution of run book actions.
  - As a workaround, after installing the PowerPack, resave the Azure device groups:
    - Go to the Device Groups page (Registry > Devices > Device Groups)
    - Locate one of the Microsoft Azure device groups and click its wrench icon.
    - Click the **[Save]** button.
- According to the official Azure page, China subscription does not have endpoints for Tenants (Active Directory) and CDN. ScienceLogic, recommends that you disable the Collection Objects of "Microsoft: Azure Active Directory Tenant Discovery" and "Microsoft: Azure CDN Service Discovery" Dynamic Applications for China subscription.
  - To disable the Collection Objects, run the following SQL queries on the Database Tool (System>Tools>DB Tool):
    - Query 1, to get the DIDs that have the Dynamic Applications that need disabling:

```
#Replace the <ROOT_ID1, ROOT_ID2,...> and run the query to get DIDs
```

```
SELECT DISTINCT (did) FROM master.dynamic_app_collection AS app_coll
```

```
JOIN master.dynamic_app AS app ON app.aid = app_coll.app_id
```

```
WHERE
```

```
did IN (SELECT did FROM collector_state.V_device WHERE parent_did IN (<ROOT_ID1, ROOT_ID2,...>)) AND
```

```
app.app_guid IN ("1E854E85AC1734486E598711DD3C6E8B",  
"D7403B5542C9D6DBB5DD0BE247CDB084");
```

- Query 2, to disable the Collection Objects of "Microsoft: Azure Active Directory Tenant Discovery" and "Microsoft: Azure CDN Service Discovery" Dynamic Applications:

```
#Replace <DID1, DID2,...> with data collected in Query 1
```

```
UPDATE master.dynamic_app_collection AS app_coll
```

```
JOIN master.dynamic_app AS app ON app.aid = app_coll.app_id
```

```
SET
```

```
app_coll.`collect` = 0,
```

```
app_coll.edited_by = 1
```

```
WHERE app.app_guid IN ("1E854E85AC1734486E598711DD3C6E8B",  
"D7403B5542C9D6DBB5DD0BE247CDB084")
```

```
AND app_coll.did IN (<DID1, DID2,...>);
```

- If there is a device under any Azure service that contains special characters, the device will display as an empty service container as devices with special characters will not be discovered. This will be addressed in an upcoming release.
- After upgrading, you may notice critical events for SQL database resources at the Azure root component level. This is expected and should disappear after a few polling cycles. If this does not resolve, contact ScienceLogic Support.
- 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 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.

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