# Amazon Web Services PowerPack Release Notes

Version 103

# Table of Contents

# Overview

Amazon Web Services PowerPack version 103 is an upgrade from version 101. Version 103 renames the device classes included in the PowerPack, adds new Region and Zone device classes, includes several new Dynamic Applications for the discovery and monitoring of Virtual Private Cloud (VPC) component devices, and adds device tiers, among other enhancements.

**NOTE:** Version 102 of the Amazon Web Services PowerPack was for a specific use case. All updates from that version are included in version 103 and documented in these release notes.

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

This document describes:

- *Pre-install or Pre-upgrade information*
- *The upgrade process for systems running version 100 or later of the PowerPack*
- *The upgrade process for systems running version 8.1.0 or earlier of the PowerPack*
- *The features included in version 103*
- *The enhancements and issues addressed in 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 Amazon Web Services PowerPack version 103. Additionally, the Data Collectors used to monitor the AWS account must be running the Oracle Linux 7.2 operating system.

If your system is not currently running version 8.3.0 or later, you must upgrade to 8.3.0 as part of the upgrade process for version 103 of the PowerPack.

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

# Upgrade Process from PowerPack version 100 or Later

This section describes the upgrade process when upgrading from version 100 or later of the Amazon Web Services 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 local changes for some commonly customized fields from being overwritten.

**NOTE:** If you are currently using the Dynamic Applications in the Amazon Web Services 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 then re-enable collection after the upgrade.

To upgrade from version 100 or later of the Amazon Web Services PowerPack, perform the following steps:

1. Familiarize yourself with the *Known Issues* for this release.
2. If you have not done so already, upgrade your system to the 8.3.0 or later release.
3. Download version 103 of the Amazon Web Services 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 Amazon Web Services PowerPack.
5. After importing the PowerPack, you will be prompted to install the PowerPack. Click the Install button to install the PowerPack.

# Upgrade Process from PowerPack version 8.1.0 and Earlier

This section describes the upgrade process when upgrading from version 8.1.0 or earlier of the Amazon Web Services PowerPack to version 103.

To upgrade from version 8.1.0 or earlier, you must perform the following general steps:

1. *Disable collection for AWS devices*.
2. *Upgrade to the 8.3.0 or later release*.
3. If you have made changes to the AWS PowerPack, optionally *enable selective PowerPack field protection*.
4. *Install the AWS 103 PowerPack*.
5. If you enabled selective PowerPack field protection, *edit collection objects*.
6. *Clear the cache on all Data Collectors*.
7. *Unalign the AWS Custom Metrics Dynamic Application*.
8. *Enable collection for AWS devices*.
9. If you enabled selective PowerPack field protection, optionally *disable selective PowerPack field protection* after the installation.

## Step 1: Disable Collection for AWS Devices

To disable collection for AWS devices:

1. Go to the **Device Components** page (Registry > Devices > Device Components).
2. Select the checkbox for all Amazon Web Services root devices.
3. In the Select Actions drop-down list, select Change Collection State: Disabled (recursive).
4. Click the Go button.

## Step 2: Upgrade to the 8.3.0 or Later Release

If you have not previously done so, upgrade your system to an 8.3.0 or later release using the documentation applicable to your current version:

- For systems running an 8.x release, see the 8.3.0 Release Notes.
- For systems running a 7.x release, see the 8.3.0 Migration Steps document.

## Step 3 (Optional): Enable Selective PowerPack Field Protection

If you have made changes to the Amazon Web Service PowerPack on your system, you can use the ***Enable Selective PowerPack Field Protection*** option to preserve changes to some fields. For a full list of fields that are preserved by this option, click the Guide button on the **Behavior Settings** page (System > Settings > Behavior). If you use the ***Enable Selective PowerPack Field Protection*** option, you must perform the steps listed in the *Step 5 (If Applicable): Edit Collection Objects* section after installing version 103 of the Amazon Web Services PowerPack.

To enable selective PowerPack field protection:

1. Go to the **Behavior Settings** page (System > Settings > Behavior).
2. Enable the ***Enable Selective PowerPack Field Protection*** checkbox.
3. Click the Save button.

## Step 4: Install Version 103 of the Amazon Web Services PowerPack

To install the version 103 of the Amazon Web Services PowerPack:

1. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
2. Click the Actions button and select *Import PowerPack*. The **Import PowerPack** modal page appears.
3. Click the Browse button and select the PowerPack file in your file browser.
4. Click the Import button. A confirmation dialog appears.
5. Click the OK button. The **PowerPack Installer** modal page appears.
6. Click the Install button. A confirmation dialog appears.
7. Click the OK button.

## Step 5 (If Applicable): Edit Collection Objects

If you performed the steps listed in the *Step 3 (Optional): Enable Selective PowerPack Field Protection* section, you must perform the following steps:

1. Go to the Dynamic Applications Manager page (System > Manage > Application).
2. Click the wrench icon (  ) for the AWS CloudFront Origin Dynamic Application. The **Dynamic Applications Properties Editor** page appears.
3. Click the Collections tab.
4. Click the wrench icon (  ) for the Distinguished Name collection object.
5. Select the ***Hide Object*** checkbox.
6. Click the Save button.

## Step 6: Clear Data Collector Cache

To perform this step manually, perform the following steps for every Data Collector used to monitor an AWS account:

1. Log in to the command-line of the appliance as the em7admin user.
2. Execute the following command:

```
watch cat /var/lib/em7/content/aws/version.txt
```

3. Within five minutes of the PowerPack installation, the command should return "xxx". If the command does not return "xxx", contact ScienceLogic Support.
4. Enter "Ctrl + C" to exit the command.
5. Execute the following command to open a MariaDB prompt:

```
silo_mysql
```

6. Execute the following command:

```
DELETE FROM cache.dynamic_app WHERE `key` LIKE 'AWS_SELF_MONITOR_%';
```

## Step 7: Unalign the AWS Custom Metrics Dynamic Application

A previous release of the Amazon Web Services PowerPack erroneously aligned the AWS Custom Metrics Dynamic Application to certain types of devices. To unalign the AWS Custom Metrics Dynamic Application from these devices:

1. Copy the provided aws_unalign_custom_metrics_app.py file to the home directory of the em7admin user on an appliance in your system:
   - If your system includes All-In-One Appliances, use the primary All-In-One Appliance.
   - If your system includes Database Servers where the user interface/API has not been disabled on the Database Servers, use the primary Database Server.
   - If your system includes Database Servers where the user interface/API has been disabled on the Database Servers, use an Administration Portal.
2. Log in to the command-line of the appliance as the em7admin user.

3. Execute the following command:

```
sudo python aws_unalign_custom_metrics_app.py --base-url http://[IP address of appliance] --username [username of administrator user] --password [password of administrator user]
```

The output will show information about each device from which the AWS Custom Metrics Dynamic Application was unaligned.

## Step 8: Enable Collection for AWS Devices

To enable collection for AWS devices:

1. Go to the **Device Components** page (Registry > Devices > Device Components).
2. Select the checkbox for all AWS Web Services root devices.
3. In the Select Actions drop-down list, select Change Collection State: Enabled (recursive).
4. Click the Go button.

## Step 9 (Optional): Disable Selective PowerPack Field Protection

If you performed the steps listed in the *Step 3 (Optional): Enable Selective PowerPack Field Protection* section and want to disable the option for future PowerPack updates, perform the following steps:

1. Go to the **Behavior Settings** page (System > Settings > Behavior).
2. Disable the ***Enable Selective PowerPack Field Protection*** checkbox.
3. Click the Save button.

# Features

Amazon Web Services version 103 includes the following features:

- Dynamic Applications (141) that discover, model, and collect data from AWS component devices
- Event Policies (73) and corresponding alerts that are triggered when AWS component devices meet certain status criteria
- Device Classes (108) for each of the AWS component devices monitored
- Reports (3) and dashboards (11) that display information about AWS instances and component devices
- Sample credentials (1) for discovering AWS component devices

# Enhancements and Issues Addressed

The following enhancements and addressed issues are included in version 103 of the Amazon Web Services PowerPack:

- Device class names and descriptions were updated to conform to ScienceLogic PowerPack naming standards.

**WARNING:** With this change, AWS device classes that were previously assigned to device groups might become unaligned from those device groups. If that happens, go to the **Device Group Editor** page (Registry > Devices > Device Groups > wrench icon) for each affected device group and update the device group to include the renamed device classes. For more information, see the ***Device Groups and Device Templates*** manual.

**NOTE:** Device class names and descriptions will update automatically when you upgrade the PowerPack. However, you might need to manually update some device classes to use the proper device dashboards after the upgrade. To do so, go to the **Device Class Editor** page (System > Customize > Device Classes), select the device class, and make the appropriate selection in the ***Device Dashboard*** field.

- The following Dynamic Applications were added to discover and collect configuration information about child components of AWS VPC Instances:
    - AWS VPC Route Table Discovery
    - AWS VPC Route Table Configuration
    - AWS VPC Virtual Private Gateway Discovery
    - AWS VPC Virtual Private Gateway Configuration

**NOTE:** When a device is deleted from the AWS portal, it remains in the AWS cache for a certain duration (typically about 1 hour). A Virtual Private Gateway (VPG) becomes "Unavailable" in the ScienceLogic platform only after it gets purged from the AWS cache in the portal. Thereafter, the ScienceLogic device vanishing process begins, and the VPG vanishes from the platform after the configured "Vanished Timeout Threshold" is reached.

- New device classes were added for the following Regions and Zones:
    - Region Canada (Central) and Availability Zone - Canada
    - Region US East (Ohio) and Availability Zone - Ohio
    - Region EU (London) and Availability Zone - London

- Device tiers were added to device classes.
- The Dynamic Application "AWS VPC Subnet" was updated to include new collection objects, thresholds, and alerts.

**NOTE:** The "Available IP Address Count Low" threshold should be configured per subnet and should be set based on the pool size. Additionally, the "AWS: VPC Subnet Available IP Address Count Below Threshold" and "AWS: VPC Subnet Available IP Address Count Returned to Normal" alerts and events are disabled by default and need to be manually enabled by the user.

- The Dynamic Application "AWS EC2 Instance" was updated to create a DCM+R relationship between AWS EC2 instances and the Cisco Cloud Center application.
- The Dynamic Application "AWS EC2 Instance Performance" was updated to include collection objects and presentation objects for Network Packets In and Network Packets Out.
- The Dynamic Application "AWS RDS Instance" was updated to include collection objects for tags and to collect and display data for DB and VPC security groups.
- Boto 3 support for discovering and collecting configuration information was added to the following Dynamic Applications:
    - AWS VPC Instance
    - AWS VPC Instance Discovery
    - AWS VPC Instance Configuration
    - AWS VPC Service Discovery
    - AWS VPC Subnet
    - AWS VPC Subnet Discovery
    - AWS Security Discovery
    - AWS Security Group Discovery
    - AWS Security Group Config
    - AWS ELB Instance
    - AWS ELB Instance Discovery
    - AWS ELB Service Discovery
- Pagination support was added for Classic Elastic Load Balancers (ELBs).
- Availability tracking was added for VPC, ELB, and SQS services to show these services in the DCM tree only if components exist under them.
- An issue was fixed that was causing the ScienceLogic platform to discover duplicate VPC subnets.

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

International: +1-703-354-1010