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# Amazon Web Services PowerPack Release Notes

Version 104 (Document revision 2)

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## Overview

Amazon Web Services PowerPack version 104 is an upgrade from version 103. Version 104 adds support for Boto3 version 1.4.4 and BotoCore version 1.5.32. This version also adds the ability to discover and monitor AWS Lightsail Elastic Cloud Compute (EC2) and Application Elastic Load Balancer resources, among other updates.

- **Minimum Required Platform Version:** 8.4.2
- **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 104](#)
- [The enhancements and issues addressed in version 104](#)
- [The known issues in version 104](#)

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## Before You Install or Upgrade

Ensure that you are running version 8.4.2 or later of the ScienceLogic platform before installing the Amazon Web Services PowerPack version 104. 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 8.4.2 or later, you must upgrade to 8.4.2 as part of the upgrade process for version 104 of the PowerPack.

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

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## 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 disable collection for AWS devices, go to the **Device Components** page (Registry > Devices > Device Components) and then select the checkbox for all Amazon Web Services root devices. In the **Select Actions** drop-down list, select *Change Collection State: Disabled (recursive)*, and then click the **[Go]** button.

To upgrade from version 100 or later of the Amazon Web Services PowerPack:

1. Familiarize yourself with the [Known Issues](#) for this release.
2. If you have not done so already, upgrade your system to the 8.4.2 or later release.
3. Download version 104 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 104 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.

**NOTE:** Version 104 of the Amazon Web Services PowerPack is delivered in the version 8.4.1 patch of the ScienceLogic platform, and therefore can be installed directly on ScienceLogic systems running version 8.4.1.

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## 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 104.

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 8.4.2 or later release.](#)
3. If you have made changes to the AWS PowerPack, optionally [enable selective PowerPack field protection.](#)
4. [Install the AWS 104 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 8.4.2 or Later Release

If you have not previously done so, upgrade your system to an 8.4.2 or later release using the documentation applicable to your current version:

- For systems running an 8.x release, see the 8.4.2 Release Notes.
- For systems running a 7.x release, see the 8.4.2 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 104 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 104 of the Amazon Web Services PowerPack



To install the version 104 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:

```
siilo_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.

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## Features

Amazon Web Services version 104 includes the following features:

- Dynamic Applications (147) that discover, model, and collect data from AWS component devices
- Event Policies (89) and corresponding alerts that are triggered when AWS component devices meet certain status criteria

- Device Classes (110) 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

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## Enhancements and Issues Addressed

The following enhancements and addressed issues are included in version 104 of the *Amazon Web Services PowerPack*:

- The PowerPack was updated to support Boto3 version 1.4.4 and BotoCore version 1.5.32.
- The following Dynamic Applications were added to the PowerPack to support the discovery and monitoring of AWS Lightsail resources:
  - "AWS Lightsail EC2 Instance Discovery"
  - "AWS Lightsail EC2 Instance Configuration"
  - "AWS Lightsail EC2 Instance Performance"

**NOTE:** AWS Lightsail monitoring is a Beta feature in version 104 of the *Amazon Web Services PowerPack*.

**NOTE:** To discover and retrieve collection information about AWS Lightsail resources, the user's IAM policy must give permission to the Lightsail service. The IAM user must be configured to allow both "list" and "read" actions.

**NOTE:** The collection fields and counters in the "AWS Lightsail EC2 Instance Configuration" and "AWS Lightsail EC2 Instance Performance" Dynamic Applications related to disk data collection and configuration currently appear empty because, at this time, Amazon does not support mounting EBS volumes on Lightsail instances. Data collection for these fields and counters will be implemented in a future release to coincide with Amazon's anticipated upcoming support for this functionality.

- The following Dynamic Applications were added to the PowerPack to support the discovery and monitoring of AWS Application Elastic Load Balancers (ELBs):
  - "AWS Application ELB Instance Discovery"
  - "AWS Application ELB Instance Configuration"
  - "AWS Application ELB Instance Performance"
- The "AWS VPC Instance" Dynamic Application was updated to include VPC peering relationships across AWS accounts.

**NOTE:** Configuration data is collected only from active peer connections.



- An issue was addressed that was causing Relational Data Store (RDS) instances that had been deleted in AWS to continue appearing in the ScienceLogic platform.
- Ensured that the AWS Billing Performance Percentage Dynamic Application was enabled and displaying billing information.
- Support for IPv6 Virtual Private Cloud (VPC) destinations was added to the PowerPack.

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## Known Issues

The following known issue affects version 104 of the *Amazon Web Services PowerPack*. This issue will be addressed in a future release:

- The ability to discover and monitor AWS accounts with a proxy server is currently unavailable.

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