



Amazon Web Services PowerPack Release Notes

Version 108

Table of Contents

Overview	3
Before You Install or Upgrade	3
Upgrade Process from PowerPack version 100 or Later	4
Upgrade Process from PowerPack version 8.1.0 or Earlier	5
Step 1: Disable Collection for AWS Devices	5
Step 2: Upgrade to the 8.5.0 or Later Release	5
Step 3 (Optional): Enable Selective PowerPack Field Protection	6
Step 4: Install Version 108 of the Amazon Web Services PowerPack	6
Step 5 (If Applicable): Edit Collection Objects	6
Step 6: Clear Data Collector Cache	7
Step 7: Unalign the AWS Custom Metrics Dynamic Application	8
Step 8: Enable Collection for AWS Devices	8
Step 9 (Optional): Disable Selective PowerPack Field Protection	8
Features	9
Enhancements and Issues Addressed	9
Known Issues and Workarounds	11

Overview

Amazon Web Services PowerPack version 108 includes new Dynamic Applications to monitor LightSail instances and Virtual Private Networks, two new example Credentials, updates to several Device Classes, and more.

NOTE: With version 108 of the Amazon Web Services PowerPack, the ability to monitor LightSail instances is now a GA feature after being a beta feature beginning in version 104. With this change, LightSail now has its own alignment process, Dynamic Applications, and Devices Classes separate from those of EC2 services.

- **Minimum Required Platform Version:** 8.5.0
- **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 108](#)
- [The enhancements and issues addressed in version 108](#)
- [The known issues in version 108](#)

Before You Install or Upgrade

Ensure that you are running version 8.5.0 or later of the ScienceLogic platform before installing the Amazon Web Services PowerPack version 108. 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 8.5.0 or later, you must upgrade to 8.5.0 or later as part of the upgrade process for version 108 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.

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

1. Familiarize yourself with the [Known Issues](#) for this release.
2. Disable collection for AWS devices. To do so, 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.
3. If you have not done so already, upgrade your system to the 8.5.0 or later release.

NOTE: For versions 8.6.0 and later of the ScienceLogic platform, the *Amazon Web Services PowerPack* content library will not update until you enable collection for your AWS devices.

4. If you are upgrading from a version of the *Amazon Web Services PowerPack* between versions 104 and 107, you must delete any LightSail Instances that were previously discovered by the "AWS LightSail EC2 Instance Discovery" Dynamic Application. To do so, go to the **Device Manager** page (Registry > Devices > Device Manager), type "LightSail EC2 Instance" in the **Device Class | Sub-class** column search field, and then select the checkboxes for all of the devices listed. In the **Select Action** drop-down list, select *DELETE Selected Devices*, and then click the **[Go]** button.

NOTE: Deleting these devices results in the loss of any historical data collected by the beta EC2 LightSail Dynamic Applications between versions 104 and 107.

5. Download version 108 of the *Amazon Web Services PowerPack* from the Customer Portal to a local computer.
6. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. When prompted, import version 108 of the *Amazon Web Services PowerPack*.
7. 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 or Earlier

This section describes the upgrade process when upgrading from version 8.1.0 or earlier of the Amazon Web Services PowerPack to version 108.

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 8.5.0 or later release.](#)
3. If you have made changes to the AWS PowerPack, optionally [enable selective PowerPack field protection](#).
4. [Install the AWS 108 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 8.5.0 or Later Release

If you have not previously done so, upgrade or migrate your system to an 8.5.0 or later release using the documentation applicable to your current version:

- For systems running an 8.x release, see the 8.5.0 Release Notes.
- For systems running a 7.x release, see the 8.5.0 Migration Steps document.

NOTE: For versions 8.6.0 and later of the ScienceLogic platform, the Amazon Web Services PowerPack content library will not update until you enable collection for your AWS devices.

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 108 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 108 of the Amazon Web Services PowerPack

To install the version 108 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. Ensure the content library version on the Data Collector matches the version from the new PowerPack installation:

For ScienceLogic platform version 8.5.0 and below:

```
$ cd /var/lib/em7/content/aws
$ cat version.txt
```

Ensure that the current content library version matches the version installed in the PowerPack.

For ScienceLogic platform version 8.6.0 and above:

```
$ cd /opt/em7/envs
$ ls -ltr
```

Locate the soft link "system" and change directories to the path, as in the example below:

```
lrwxrwxrwx. 1 s-em7-core s-em7-core 40 Feb 5 21:40 system ->
/opt/em7/envs/system-7666504203980756445

$ cd /opt/em7/envs/system-7666504203980756445
$ cd lib/python2.7/cl-packages/silo_aws
$ cat version.txt
```

Ensure that the current content library version matches the version installed in the PowerPack.

NOTE: For versions 8.6.0 and above of the ScienceLogic platform, the content library version listed in the version.txt file will not update until you [enable collection for your AWS devices](#).

3. Execute the following command to open a MariaDB prompt:

```
$ sudo bash
[sudo] password for root:
# silo_mysql
```

4. 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.

NOTE: The `aws_unalign_custom_metrics_app.py` file can be found by clicking the "Contrib Files" link for the most recent version of the Amazon Web Services PowerPack on the [ScienceLogic customer 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 108 includes the following features:

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

NOTE: Many of the Event Policies included in the *Amazon Web Services PowerPack* are disabled by default. You must manually enable the Event Policies that you want to use. To do so, go to the **Event Policy Editor** page (Registry > Events > Event Manager > create or edit) and change the **Operational State** to *Enabled*.

- Device Classes for each of the AWS component devices monitored
- Sample credentials for discovering AWS component devices
- Reports and dashboards that display information about AWS instances and component devices
- Run Book Action and Automation policies that can automate certain AWS monitoring processes

Enhancements and Issues Addressed

Version 108 of the *Amazon Web Services PowerPack* includes the following enhancements and addressed issues:

- The following updates were made to separate EC2 and LightSail Dynamic Applications and to support LightSail service monitoring:
 - The "AWS LightSail EC2 Instance Discovery" Dynamic Application was renamed "AWS LightSail Instance Discovery."
 - The "AWS LightSail EC2 Instance Configuration" Dynamic Application was renamed "AWS LightSail Instance Configuration."
 - The "AWS LightSail EC2 Instance Performance" Dynamic Application was renamed "AWS LightSail Instance Performance." The Dynamic Application's Collection Objects, Presentation Objects, Alerts, and Event Policies were also updated.
 - A new "AWS LightSail Service Discovery" Dynamic Application was added.
 - The "LightSail EC2 Instance" Device Class was renamed "LightSail Instance."

NOTE: For important additional information about these changes, see the [Known Issues](#) section.

- The following Dynamic Applications were added to collect data for AWS Virtual Private Networks (VPNs):
 - AWS VPN Virtual Private Network Configuration
 - AWS VPN Virtual Private Network Performance

- The following Dynamic Applications were converted to bulk snippet configuration applications to monitor and collect data for more devices:
 - AWS EBS Instance
 - AWS EC2 Instance
- New event policies, thresholds, and alerts were added to the "AWS S3 Request Performance" Dynamic Application.
- The "AWS EBS Discovery" Dynamic Application was updated to ensure the "EC2 Name" values that appear on the Configuration Report match the EBS volume names that display in AWS.
- The "AWS EMR Instance Discovery" Dynamic Application was updated to ensure that EMR component devices display the correct device availability states and vanishing behaviors. The Dynamic Application was also migrated to Boto3.
- The "AWS Region Discovery" Dynamic Application was updated to reduce the polling frequency from 10 minutes to 60 minutes.
- The "AWS DynamoDB Performance" and "AWS S3 Storage Performance" Dynamic Applications were updated to prevent data collection gaps and exception errors.
- Updated billing tiers were assigned to the following Device Classes:
 - EMR Cluster (Tier 2)
 - SNS Topic (Tier 2)
 - ElastiCache Memcached Cluster (Tier 3)
 - ElastiCache Memcached Node (Tier 3)
 - S3 Bucket (Tier 3)
 - VPC Virtual Privage Gateway (Tier 3)
- The following updates were made to the example Credentials included in the PowerPack:
 - The "Amazon Web Services Credential" was renamed "AWS Credential."
 - A new "AWS Credential - Proxy" Credential was added as an example for commercial proxy authentication.
 - A new "AWS Credential - Specific Region" Credential was added as an example for region-specific authentication.


NOTE: When creating a Credential from the "AWS Credential - Proxy" sample, the Proxy Settings **User** and **Password** fields must be blank unless you are using Basic Authentication, in which case those fields should have valid values.

- Enhancements were made to more gracefully handle strict permissions on S3 buckets.
- The request rate for GetBucketLocation API calls was reduced to improve S3 bucket discovery.
- Addressed an issue that was causing two versions of the same sample Credential to appear when upgrading from PowerPack version 105 and earlier.
- Addressed an issue that was preventing the discovery of EC2 instances in the São Paulo availability zone.

- Addressed an issue that was preventing the discovery of Relational Database Services (RDS).
- Addressed an issue that was causing "Connection refused" errors to appear when discovering the EMR service using a proxy server.

Known Issues and Workarounds

The following known issue affects version 108 of the *Amazon Web Services PowerPack*:

- As a part of the EC2 and LightSail instance Dynamic Application separation, some disk-related alerts and events were removed from the "AWS LightSail Instance Performance" Dynamic Application. To manually delete the thresholds relating to these removed alerts and events, go to the **Dynamic Applications Threshold Objects** page (System > Manage > Applications > wrench icon > Thresholds) for the "AWS LightSail Instance Performance" Dynamic Application, and then click the bomb icon () for the following thresholds:
 - AWS: LightSail Disk IOPS High
 - AWS: LightSail Disk GB Usage High
- AWS does not currently support IPv6 addresses for LightSail services. However, the "AWS LightSail Instance Configuration" Dynamic Application includes support for IPv6 addresses in the event that AWS adds support in the future.
- Because AWS Government accounts do not support all of the services supported by AWS Commercial accounts, some expected errors will appear when discovering AWS Government Accounts. For example:

```
HTTPSConnectionPool(host='lightsail.us-gov-west-1.amazonaws.com', port=443): Max
retries exceeded with url: / (Caused by ProxyError('Cannot connect to proxy.', error
('Tunnel connection failed: 503 Service Unavailable',)))
```

```
Unable to process AWS request: AID: 402, SID: 415, DID: 3, Class:
AwsOpsWorksServiceDisc UnrecognizedClientException The security token included in
the request is invalid.
```

```
Unable to process AWS request: AID: 279, SID: 275, DID: 84, Class:
AwsOpsWorksServiceDisc UnrecognizedClientException The security token included in
the request is invalid. Invalid credentials for billing metric retrieval.
```

If you are discovering **only** an AWS Government account, then a simple workaround to these errors is to disable and delete the Dynamic Applications relating to services that are not supported by the AWS Government account.

NOTE: For more information about which services are supported by AWS Government account, see <https://aws.amazon.com/about-aws/global-infrastructure/regional-product-services>.

WARNING: If you are discovering both AWS Government and Commercial accounts, you should not disable or delete any AWS Dynamic Applications.

- The Run Book Automation policies included in the *Amazon Web Services PowerPack* are not compatible with version 8.6.0 of the ScienceLogic platform, due to a known issue in that release. The Run Book Automation policies work with versions of the platform prior to 8.6.0 and versions 8.6.1 and above.
- SSL EOF error messages might appear in the system log when connecting to AWS through a proxy server. The error does not seem to prevent or cause issues with data collection.

© 2003 - 2018, 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



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

International: +1-703-354-1010