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# Amazon Web Services PowerPack Release Notes

Version 126

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## Overview

Version 126 of the *Amazon Web Services PowerPack* includes an upgrade for MySQL8 and Aurora 3 compatibility.

- **Minimum Required SL1 Version:** 10.2.0

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## Before You Install or Upgrade

Ensure that you are running version 10.2.0 or later of SL1 before installing "Amazon Web Services" PowerPack version 126.

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

If your SL1 system is not currently running version 10.2.0 or later, you must upgrade to 10.2.0 or later as part of the upgrade process for version 126 of the PowerPack.

If your SL1 system has been upgraded to a later release, you should go to the **PowerPack Manager** page (System > Manage > PowerPacks) and ensure that the *Amazon Web Services PowerPack* has been upgraded to the most recent version.

Additionally, the Data Collectors used to monitor the AWS account must be running the Oracle Linux 7.2 operating system.

**NOTE:** More AWS services are available to be monitored by installing the **AWS Extended Services** PowerPack.


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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.

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 are upgrading from a version of the *Amazon Web Services* PowerPack prior to this version, you must ensure that the **Preserve Hostname** checkbox is *not* selected for any Storage Gateway Instances. To do so, go to the **Device Manager** page (Registry > Devices > Device Manager) and then type "AWS | Storage Gateway Instance" in the **Device Class | Sub-class** column filter field. For each Storage Gateway Instance component device in the list, click the wrench icon () , uncheck the **Preserve Hostname** checkbox, and then click **[Save]**.

**NOTE:** If desired, you can select the **Preserve Hostname** checkbox again for these devices *after* you have completed the upgrade to this version of the PowerPack.

4. Delete the "AWS: Health" Dynamic Application. To do so, go to the **Dynamic Applications Manager** page (System > Manage > Applications) and then select the checkbox for the "AWS: Health" Dynamic Application. In the **Select Actions** drop-down list, select *DELETE Application*, and then click the **[Go]** button.

**CAUTION:** You should *not* delete any of the AWS Service Health Dynamic Applications, nor any other Dynamic Applications that include "Health" in the name. Only the "AWS: Health" Dynamic Application should be deleted.

5. If you have not done so already, upgrade your version SL1 system to 10.2.0 or later.

**NOTE:** For versions 8.6.0 and later of SL1, the *Amazon Web Services* PowerPack content library will not update until you enable collection for your AWS devices.

6. 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.

7. Download the latest version of the *Amazon Web Services PowerPack* from the Support Site to a local computer.
8. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. When prompted, import the *Amazon Web Services PowerPack*.
9. After importing the PowerPack, you will be prompted to install the PowerPack. Click the **[Install]** button to install the PowerPack.
10. If you have updated to this version of the PowerPack and already have an account discovered that is part of an organization, you can use your AssumeRole to have your devices associated with that organization. After you upgrade and the "AWS: Account Creation" run book action runs, you'll see the account name change to reflect the organization account in the **Device Manager** and **Device Components** pages.

**NOTE:** ScienceLogic recommends turning off collection of the parent device if you are upgrading to use this new feature.

Device Name	IP Address	Device Category	Device Class   Sub-class	DID	Organization	Current State	Collection Group	Collection State
AWS Account 975658547628	--	Account	AWS   Account	1264	master	Critical	CUG_AUTOMATION	Active
AWS_Org_Account	--	Service	AWS   Service	504	06	Healthy	CUG_AUTOMATION	Active
AWS Account 859978549432	--	Account	AWS   Account	505	06	Healthy	CUG_AUTOMATION	Active
Asia Pacific (Mumbai) ap-south-1	--	Region	AWS   Region Asia Pacific (Mumbai)	519	06	Healthy	CUG_AUTOMATION	Active
Asia Pacific (Socul) ap-northeast-2	--	Region	AWS   Region Asia Pacific (Seoul)	526	06	Healthy	CUG_AUTOMATION	Active
Asia Pacific (Singapore) ap-southeast-1	--	Region	AWS   Region Asia Pacific (Singapore)	511	06	Healthy	CUG_AUTOMATION	Active
Asia Pacific (Sydney) ap-southeast-2	--	Region	AWS   Region Asia Pacific (Sydney)	514	06	Healthy	CUG_AUTOMATION	Active
Asia Pacific (Tokyo) ap-northeast-1	--	Region	AWS   Region Asia Pacific (Tokyo)	528	06	Healthy	CUG_AUTOMATION	Active
Canada (Central) ca-central-1	--	Region	AWS   Region Canada (Central)	512	06	Healthy	CUG_AUTOMATION	Active
CloudFront Service	--	Service	AWS   CloudFront Service	508	06	Healthy	CUG_AUTOMATION	Active
Europe (Frankfurt) eu-central-1	--	Region	AWS   Region	513	06	Healthy	CUG_AUTOMATION	Active
Europe (Ireland) eu-west-1	--	Region	AWS   Region	523	06	Healthy	CUG_AUTOMATION	Active
Europe (London) eu-west-2	--	Region	AWS   Region	521	06	Healthy	CUG_AUTOMATION	Active
Europe (Milan) eu-south-1	--	Region	AWS   Region Europe (Milan)	524	06	Notice	CUG_AUTOMATION	Active
Europe (Paris) eu-west-3	--	Region	AWS   Region	522	06	Healthy	CUG_AUTOMATION	Active
Europe (Stockholm) eu-north-1	--	Region	AWS   Region	520	06	Healthy	CUG_AUTOMATION	Active
Middle East (Bahrain) me-south-1	--	Region	AWS   Region Middle East (Bahrain)	525	06	Healthy	CUG_AUTOMATION	Active
OpsWorks Service	--	Service	AWS   OpsWorks Service	506	06	Healthy	CUG_AUTOMATION	Active
Route 53 Service	--	Service	AWS   Route 53 Service	507	06	Healthy	CUG_AUTOMATION	Active
Shield Service	--	Security	AWS   Shield Standard Service	510	06	Healthy	CUG_AUTOMATION	Active
South America (Sao Paulo) sa-east-1	--	Region	AWS   Region South America (Sao Paulo)	527	06	Healthy	CUG_AUTOMATION	Active

## 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 this version.

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

1. [Disable collection for AWS devices.](#)
2. [Uncheck "Preserve Hostname" for Storage Gateway Instances.](#)
3. [Delete the "AWS: Health" Dynamic Application.](#)
4. [Upgrade to SL1 10.2.0 or later release.](#)
5. If you have made changes to the AWS PowerPack, optionally [enable selective PowerPack field protection.](#)
6. [Install this release of the AWS PowerPack.](#)
7. If you enabled selective PowerPack field protection, [edit collection objects.](#)
8. [Clear the cache on all Data Collectors.](#)
9. [Unalign the AWS: Custom Metrics Dynamic Application.](#)
10. [Enable collection for AWS devices.](#)
11. 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: Uncheck the "Preserve Hostname" Option for Storage Gateway Instances

To ensure that the **Preserve Hostname** checkbox is *not* selected for any Storage Gateway Instance component devices:

1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
2. In the **Device Class | Sub-class** column filter field, type "AWS | Storage Gateway Instance".
3. For each Storage Gateway Instance component device in the list, click the wrench icon (). The **Device Properties** page appears.
4. Uncheck the **Preserve Hostname** checkbox.
5. Click **[Save]**.

**NOTE:** If desired, you can select the **Preserve Hostname** checkbox again for these devices *after* you have completed the upgrade to this version.

## Step 3: Delete the "AWS: Health" Dynamic Application

To delete the "AWS Health" Dynamic Application:

1. Go to the **Dynamic Applications Manager** page (System > Manage > Applications).
2. Locate the "AWS: Health" Dynamic Application and then select its checkbox.
3. In the **Select Actions** drop-down list, select *DELETE Application*.
4. Click the **[Go]** button.

**CAUTION:** You should *not* delete any of the AWS Service Health Dynamic Applications, nor any other Dynamic Applications that include "Health" in the name. Only the "AWS: Health" Dynamic Application should be deleted.

## Step 4: Upgrade to the 10.2.0 or Later Release

If you have not previously done so, upgrade or migrate your SL1 system to an 10.2.0 or later release using the documentation applicable to your current version:

- For systems running an 8.x release, see the 10.2.0 Release Notes.
- For systems running a 7.x release, see the 10.2.0 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 5 (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 7 (If Applicable): Edit Collection Objects** section after installing this version 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 6: Install this Version of the Amazon Web Services PowerPack



To install this version 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 7 (If Applicable): Edit Collection Objects

If you performed the steps listed in the [Step 5 \(Optional\): 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 Configuration" 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 8: Clear Data Collector Cache

Beginning with *Amazon Web Services PowerPack* version 112, ScienceLogic libraries are delivered with the PowerPack. However, you must ensure that *Amazon Web Services PowerPack* versions 108-111 that were installed on Data Collectors prior to updating to SL1 version 8.11.0 still work and that the `silos_aws` system library is set to 2.9.5.

**NOTE:** All versions of the ScienceLogic libraries appear on the **ScienceLogic Library Manager** page (System > Customize > ScienceLogic Libraries). The default `silos_aws` library is indicated by a **System** setting of *True*.

After validating the ScienceLogic library versions on the Data Collectors, you must also clear the Data Collectors' cache.

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. Validate the versions of the ScienceLogic libraries on the Data Collector at the paths below:

```
$ cd /opt/em7/envs/<PP_GUID>/lib/python2.7/cl-packages/silo_aws
```

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

- The library versions might be the same if you have not yet upgraded the *Amazon Web Services PowerPack* to the latest version that was delivered in SL1.
  - The library versions might be different if you have upgraded the *Amazon Web Services PowerPack* to the latest version that was delivered in SL1.
3. On the Data Collector, ensure that the current content library version matches the version installed in the PowerPack:

```
$ cat version.txt
```

**NOTE:** For versions 8.6.0 and above of SL1, the content library version listed in the version.txt file will not update until you [enable collection for your AWS devices](#).

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

```
$ sudo bash
```

```
[sudo] password for root:
```

```
# silo_mysql
```

5. Execute the following command:

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

## Step 9: 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* at the [ScienceLogic Support site](#).

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 10: 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 11 (Optional): Disable Selective PowerPack Field Protection

If you performed the steps listed in the [Step 5 \(Optional\): 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

This release 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 this 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
- The ScienceLogic Libraries that are utilized by this PowerPack:
  - aws\_explorer
  - boto3
  - silo\_apps
  - silo\_aws
  - silo\_aws\_args
  - silo\_credentials

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## Enhancements and Issues Addressed

The following enhancements and addressed issues are included in version 126 of the "Amazon Web Services" PowerPack:

- Updated the PowerPack for MySQL8 compatibility.

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## Known Issues and Workarounds

The following known issues affect version 126 of the *Amazon Web Services* PowerPack:

- Version 124 of the *Amazon Web Services* PowerPack is included in the SL1 12.2.0 ISO. If you have moved to version 12.2.0 and want to upgrade to version 125, you will need to manually install version 124 on your 12.2.0 system before beginning the upgrade process.
- Due to an SL1 platform bug, device components are being erroneously deleted in SL1 12.1.0, causing multiple failures. This issue will be fixed in SL1 12.1.1.
- A reported bug in AWS is causing data gaps in data collected from Aurora RDS cluster volumes on SL1. This issue will be fixed in the next version.
- When discovering Athena devices, you cannot create Workgroups that have the same name even if the case of the letters is different, for example: "Primary" and "primary". These will be recognized duplicate Workgroups and only one device component will be created between them.

- Amazon Aurora MySQL-Compatible Edition version 1 (with MySQL 5.6 compatibility) will reach end of life on February 28, 2023. It is recommended to upgrade to newer supported versions before this date.
- A known issue in the "silo\_log" content library may cause a "No such file or directory" error to appear in system logs.
- Upgrading an IAM account to use Assume Role may cause child device components to have conflicts with parent devices. To prevent this, disable the "AWS: Account Discovery" Dynamic Application before you upgrade the IAM account.
- To prevent the discovery of DocDB and Neptune databases inside regional RDS services, which will not collect data or align Dynamic Applications, do not enable new permissions for services in the *AWS Extended Services PowerPack* before installing version 123 of the *Amazon Web Services PowerPack*.
- Relationship creation for the following relationships has been disabled temporarily until a fix can be implemented for a circular relationship issue: (Support Case: 00271522; Jira ID: SOL-20134)
  - AWS VPC instances in the same region
  - AWS VPC Instances and other intra-account AWS VPC Instances
- In AWS Dynamic Applications that produce API results containing special characters, if a character cannot be normalized, SL1 will display its Unicode values inside brackets as a normalized string.
- Some disk-related alerts and events were removed from the "AWS: LightSail Instance Performance" Dynamic Application as of *Amazon Web Services PowerPack* version 108. If you are upgrading from a version prior to version 108, then you must manually delete the thresholds relating to these removed alerts and events. To do so, 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.
- 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.
- "Read operation timed out" and "Connection reset by peer" error messages might appear in the system log and device logs when upgrading the *Amazon Web Services PowerPack* from versions prior to 108.

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