

Instructions for upgrading AWS IoT SiteWise gateway from AWS IoT Greengrass V1 to V2:

There are two ways to upgrade your SiteWise gateway from AWS IoT Greengrass V1 to V2. We recommend a clean install.

A. Clean install: Stop and remove SiteWise gateway running Greengrass V1, install the new gateway running Greengrass V2 **(Recommended)**.

1. Download the SiteWise Edge installer from SiteWise console.
2. Stop and remove the existing SiteWise gateway running Greengrass V1 from your device.
3. Install the new SiteWise gateway on your device.

B. Side by side install: If you want to minimize downtime, you can install the new SiteWise gateway side-by-side with existing gateway. This will require the following steps including additional steps:

1. Download the SiteWise Edge installer from SiteWise console.
2. Stop, rename and restart existing gateway running Greengrass V1 from your device.
3. Install the new SiteWise gateway on your device.
4. Remove previous SiteWise gateway from your device.

A. Clean install (Recommended)

Using the clean install method, you will stop and remove existing SiteWise gateway running Greengrass V1 and install the new SiteWise gateway running Greengrass V2.

Step 1: Configure and download SiteWise installer from SiteWise console.

Starting 07/08, you can configure your SiteWise gateway and download the installer from the SiteWise console.

Step 2: Stop and remove the existing gateway.

a/ Stop the Greengrass service.

- If you run Greengrass **as a service**, you can stop it using the follow commands.
 - Stop the running Greengrass V1 service.

```
sudo systemctl stop greengrass
```
 - Wait until the service stops. Use the list command to check the status

```
sudo systemctl list-units --type=service | grep greengrass
```
- If Greengrass **is not running as a service**, use the following command to stop the daemon. Replace `{greengrass-root}` with the name of your Greengrass root directory. The default location is `/greengrass`.

```
cd /{greengrass-root}/ggc/core/  
sudo ./greengrassd stop
```
- (Optional) Back up your Greengrass root directory, or if you're using a custom [write directory](#), then back up your write directory to a different directory.
 - You can use the following command to copy the current Greengrass root directory to a different directory, and then remove the root directory.

```
sudo cp -r /{greengrass-root} /greengrass_backup  
rm -rf /{greengrass-root}
```
 - You can use the following command to move the write directory to a different directory, and then remove the write directory.

```
sudo cp -r /{write-directory} /write-directory_backup  
rm -rf /{write-directory}
```

- Disable the service.
`sudo systemctl disable greengrass`
- Remove the service. This will remove the existing gateway from your device.
`sudo rm /etc/systemd/system/greengrass.service`

Step 3: Install the new SiteWise gateway on your device.

- Copy the installer on your device.
- Run it using the following command where `{gatewayName}` is the name of your gateway.
`./{gatewayName}.deploy.sh`
- You can verify the new version is installed by running the following command.
`sudo /greengrass/ggc/core/greengrassd --version`

Your upgrade is now complete.

B. Side by side install

If you want to minimize down time due to SiteWise gateway removal before upgrading to Greengrass V2 then please follow these instructions.

Step 1: Configure and download SiteWise installer from the SiteWise Console.

Starting 07/08, you can configure your SiteWise gateway and download the installer from the SiteWise console.

Step 2: Stop and rename the existing SiteWise gateway.

AWS IoT Greengrass V2 does not provide the option to rename the existing Greengrass service. You must stop your current greengrass service or daemon to rename it.

a/ Stop the Greengrass service.

- If you run Greengrass **as a service**, you must stop and rename the Greengrass V1 service before you install Greengrass V2.
 - Stop the running Greengrass V1 service.
`sudo systemctl stop greengrass`
 - Wait until the service stops. Use the list command to check the status
`sudo systemctl list-units --type=service | grep greengrass`
- If Greengrass **is not running as a service**, use the following command to stop the daemon. Replace `{greengrass-root}` with the name of your Greengrass root directory. The default location is `/greengrass`.
`cd /{greengrass-root}/ggc/core/
sudo ./greengrassd stop`

c/ Disable, rename and restart greengrass

- Disable the service.
`sudo systemctl disable greengrass`
- Rename the service.
`sudo mv /etc/systemd/system/greengrass.service /etc/systemd/system/greengrass-v1.service`
- The IoT thing name for your V2 core device must be unique. Don't use the same thing name as your V1 core device.
- If you use stream manager, then configure it to use a port other than 8088. For more information, see <https://docs.aws.amazon.com/greengrass/v1/developerguide/configure-stream-manager.html>.

- If you use the MQTT broker, then configure it to use a port other than 8883. For more information, see <https://docs.aws.amazon.com/greengrass/v1/developerguide/gg-core.html#config-local-mqtt-port>.
- If you want to keep the existing service running, reload the service and start it.


```
sudo systemctl daemon-reload
sudo systemctl reset-failed
sudo systemctl enable greengrass-v1
sudo systemctl start greengrass-v1
```

Step 3: Install the new SiteWise gateway on your device.

- Copy the installer on your device.
- Run it using the following command where `{gatewayName}` is the name of your gateway.


```
./{gatewayName}.deploy.sh
```

Step 4: Remove old SiteWise gateway from your device.

To uninstall the SiteWise gateway, complete the following steps:

1. If Greengrass V1 is running as a service, stop, disable, and remove the service.
 - a. Stop the running Greengrass V1 service.


```
sudo systemctl stop {greengrass name}
```
 - b. Wait until the service stops. Use the list command to check the status


```
sudo systemctl list-units --type=service | grep greengrass
```
 - c. Disable the service.


```
sudo systemctl disable {greengrass name}
```
 - d. Remove the service


```
sudo rm /etc/systemd/system/greengrass.service
```
2. If Greengrass is not running as a service, use the following command to stop the daemon. Replace `{greengrass-root}` with the name of your Greengrass root directory. The default location is `/greengrass`.


```
cd /{greengrass-root}/ggc/core/
sudo ./greengrassd stop
```
3. (Optional) Back up your Greengrass root directory, or if you're using a custom [write directory](#), then back up your write directory to a different directory.
 - a. You can use the following command to copy the current Greengrass root directory to a different directory, and then remove the root directory.


```
sudo cp -r /{greengrass-root} /greengrass_backup
rm -rf /{greengrass-root}
```
 - b. You can use the following command to move the write directory to a different directory, and then remove the write directory.


```
sudo cp -r /{write-directory} /write-directory_backup
rm -rf /{write-directory}
```