



Monitoring AMD GPU

AMD: GPU PowerPack version 100

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Chapter

1

Introduction

Overview

This manual describes how to monitor AMD GPU devices in Skylar One (formerly SL1) using the Dynamic Applications in the "AMD: GPU" PowerPack.

The following sections provide an overview of AMD GPU and the "AMD: GPU" PowerPack:

This chapter covers the following topics:

<i>What Does the AMD: GPU PowerPack Monitor?</i>	3
<i>Installing the AMD: GPU PowerPack</i>	4

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What Does the AMD: GPU PowerPack Monitor?

To monitor AMD GPUs using Skylar One, you can install the "AMD: GPU" PowerPack. This PowerPack enables you to align Dynamic Applications to AMD GPU devices to collect data.

The "AMD: GPU" PowerPack includes:

- Dynamic Applications that enable Skylar One to align to and monitor AMD GPU devices
- Event Policies that are triggered when AMD GPU devices meet certain status criteria
- A sample SSH Credential ("AMD GPU Monitoring - Example") that you can use to create your own AMD Credential
- A Device Template ("AMD: GPU Monitor Template") that aligns AMD Dynamic Applications with devices

Installing the AMD: GPU PowerPack

Before completing the steps in this manual, you must import and install the latest version of the "AMD: GPU" PowerPack.

TIP: By default, installing a new version of a PowerPack overwrites all content from a previous version of 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 new PowerPacks from overwriting local changes for some commonly customized fields. For more information, see the section on [Global Settings](#).

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

To download and install the PowerPack:

1. Search for and download the PowerPack from the **PowerPacks** page on the [ScienceLogic Support Site](#) (Skylar One > PowerPacks).
2. In Skylar One, go to the **PowerPacks** page (System > Manage > PowerPacks).
3. Click the **[Actions]** button and choose *Import PowerPack*. The **Import PowerPack** dialog box appears.
4. Click **[Browse]** and navigate to the PowerPack file from step 1.
5. Select the PowerPack file and click **[Import]**. The **PowerPack Installer** modal displays a list of the PowerPack contents.
6. Click **[Install]**. The PowerPack is added to the **PowerPacks** page.

NOTE: If you exit the **PowerPack Installer** modal without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPacks** page. However, the imported PowerPack will appear in the **Imported PowerPacks** modal. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

Chapter

2

Configuration

The following sections describe how to configure and discover AMD GPU devices for monitoring by Skylar One using the "AMD GPU" PowerPack:

This chapter covers the following topics:

<i>Prerequisites for Monitoring AMD GPU Devices</i>	5
<i>Creating an SSH/Key Credential for AMD GPU</i>	5
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Prerequisites for Monitoring AMD GPU Devices

To configure the Skylar One (formerly SL1) system to monitor AMD GPU devices using the "AMD GPU" PowerPack, you must first have the following information about AMD GPUs:

- SSH (Secure Shell) credentials with permissions to run the `amd-smi` command.
- Physical AMD GPU devices that you can align with the Dynamic Applications included in this PowerPack.

Creating an SSH/Key Credential for AMD GPU

To configure Skylar One to monitor AMD GPU devices, you must first create an SSH/Key credential. This credential allows the Dynamic Applications in the "AMD: GPU" PowerPack to communicate with AMD GPU devices.

The PowerPack includes an example SSH/Key credential that you can edit for your own use.

To configure an SSH/Key credential to access an AMD GPU:

1. Go to the **Credentials** page (Manage > Credentials).
2. Locate the "AMD GPU Monitoring- Example" sample credential, click its **[Actions]** icon (...) and select **Duplicate**. A copy of the credential, called "AMD GPU Monitoring - Example" copy appears.
3. Click the **[Actions]** icon (...) for the "AMD GPU Monitoring - Example" copy credential and select **Edit**. The **Edit Credential** modal page appears.
4. Supply values in the following fields:
 - **Name**. Type a new name for the credential.
 - **Hostname/IP**. Type "%D". Skylar One will replace it with the device's IP.
 - **Timeout (ms)**. The time in milliseconds, after which Skylar One will stop trying to communicate with the monitored host.
 - **Username**. Type the SSH account username. This will be used to connect to the monitored host.
 - **Password**. Type the password for the SSH account.
 - **Private Key (PEM Format)**. Type the SSH private key.

NOTE: The private key can have a maximum of 64 characters per line. Therefore, you cannot use keys in the OpenSSH format, because that format uses 70 characters per line. When you attempt to save the credential, Skylar One will validate that the private key entered is in the correct format. You will be able to save the credential only if the private key is correctly formatted.


5. Click **[Save & Close]**.

Creating an SSH/Key Credential for AMD GPU in the Skylar One Classic User Interface

To configure Skylar One to monitor AMD GPU devices, you must first create an SSH/Key credential. This credential allows the Dynamic Applications in the "AMD: GPU" PowerPack to communicate with AMD GPU devices.

The PowerPack includes an example SSH/Key credential that you can copy and edit for your own use.

To configure an SSH/Key credential to access an AMD GPU:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the "AMD GPU Monitoring- Example" credential, then click its wrench icon (). The **Edit SSH/Key Credential** modal page appears:

3. Complete the following fields:

- **Name.** Type a new name for the credential.
- **Hostname/IP.** Type "%D". Skylar One will replace it with the device's IP.
- **Timeout (ms).** The time in milliseconds, after which Skylar One will stop trying to communicate with the monitored host.
- **Username.** Type the SSH account username. This will be used to connect to the monitored host.
- **Password.** Type the password for the SSH account.
- **Private Key (PEM Format).** Type the SSH private key.

NOTE: The private key can have a maximum of 64 characters per line. Therefore, you cannot use keys in the OpenSSH format, because that format uses 70 characters per line. When you attempt to save the credential, Skylar One will validate that the private key entered is in the correct format. You will be able to save the credential only if the private key is correctly formatted.

4. Click the **[Save As]** button.


Aligning Dynamic Applications to AMD GPU Devices

A **device template** allows you to save a device configuration and apply it to multiple devices. The "AMD: GPU" PowerPack includes the "AMD: GPU Monitor Template" which enables Skylar One to align all Dynamic Applications to the root component device.

Configuring the Device Template

Before you can use the "AMD - GPU Monitor Template" you need to configure the template so that each dynamic application in the template aligns with the [credential you created earlier](#).

To configure the device template:


1. Go to the **Configuration Templates** page (Devices > Templates).
2. Locate the "AMD - GPU Monitor Template" and click its wrench icon (). The **Device Template Editor** modal page appears.
3. Change the name of the template and click **[Save As]**. This will create a copy of the template.
4. Click the **[Dyn Apps]** tab. The **Editing Dynamic Application Subtemplates** page appears.
5. In the **Credentials** drop-down list, select the credential that you created for AMD GPU.
6. Click the next Dynamic Application listed in the **Subtemplate Selection** section on the left side of the page and then select the credential you created in the **Credentials** field.
7. Repeat step 5 until you have selected that credential in the **Credentials** field for all of the Dynamic

Applications listed in the **Subtemplate Selection** section.

8. Click **[Save]**.

Using the Device Template to Align Dynamic Applications to AMD GPU Devices

To align the AMD GPU Dynamic Applications to AMD GPU devices:

1. Go to the **Device Manager** page (Devices > Classic Devices, or Registry > Devices > Device Manager in the classic SL1 user interface).
2. On the **Device Manager** page, select the checkbox for all devices where you want to align the AMD GPU Dynamic Applications.
3. In the **Select Actions** field, in the lower right, select the option *MODIFY by Template* and click the **[Go]** button. The **Device Template Editor** page appears:
4. Complete the following fields:
 - In the **Template** drop-down list, select the name of the device template you configured earlier.
 - In the **Credentials** drop-down list, select the credential you created earlier.
5. Click the **[Apply]** button, and then click **[Confirm]** to align the Dynamic Applications to the selected devices.
6. Confirm that the Dynamic Applications were aligned with the selected devices by clicking on a device's wrench icon () and selecting the **[Collections]** tab. Any aligned Dynamic Applications will be listed.

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