Monitoring Dell EMC Unity

Dell EMC: Unity PowerPack version 102

Table of Contents

Introduction 3

What is Dell EMC Unity? 3

What Does the Dell EMC: Unity PowerPack Monitor? 4

Installing the PowerPack 4

Configuration and Credentials 6

Prerequisites for Monitoring Dell EMC Unity 6

Creating a SOAP/XML Credential for Dell EMC Unity 6

Discovery 8

Discovering Dell EMC Unity Component Devices 8

Verifying Discovery and Dynamic Application Alignment 9

Viewing Dell EMC Unity Component Devices 9

Chapter 1

Introduction

Overview

This manual describes how to monitor Dell EMC: Unity storage systems in SL1 using the Dynamic Applications in the *Dell EMC: Unity* PowerPack.

The following sections provide an overview of Dell EMC Unity and the *Dell EMC: Unity* PowerPack:

This chapter covers the following topics:

What is Dell EMC Unity? 3

What Does the Dell EMC: Unity PowerPack Monitor? 4

Installing the PowerPack 4

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What is Dell EMC Unity?

Dell EMC Unity is a unified storage array. The *Dell EMC: Unity* PowerPack discovers the storage array and collects health, configuration, performance, and capacity information.

What Does the Dell EMC: Unity PowerPack Monitor?

To monitor Dell EMC Unity storage devices with SL1, you must install the *Dell EMC: Unity*PowerPack. This PowerPack lets you discover, model, and collect data about Unity storage devices using the Unisphere REST API.

The *Dell EMC: Unity*PowerPack includes:

- Dynamic Applications to discover, model, and monitor performance metrics and collect configuration data for Dell EMC Unity devices
- Device Classes for each type of Unity device monitored
- Event Policies that are triggered when Unity devices meet certain status criteria
- An example credential that you can use as a template to create a SOAP/XML credential to connect to Unity devices

Installing the PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *Dell EMC: Unity* 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 ***System Administration*** manual.)

IMPORTANT: The minimum required MySQL version is 5.6.0.

To download and install the PowerPack:

1. Search for and download the PowerPack from the **PowerPacks** page (Product Downloads > PowerPacks & SyncPacks) at the ScienceLogic Support Site.
2. In SL1, 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 and Credentials

Overview

The following sections describe how to configure and discover Dell EMC Unity storage arrays for monitoring by SL1 using the *Dell EMC: Unity* PowerPack:

This chapter covers the following topics:

Prerequisites for Monitoring Dell EMC Unity 6

Creating a SOAP/XML Credential for Dell EMC Unity 6

Prerequisites for Monitoring Dell EMC Unity

Before you can monitor Dell EMC Unity systems using the *Dell EMC: Unity* PowerPack, you must have the following information about the Unisphere REST API:

- Username and password for a user with access to the Unisphere REST API
- IP address for the Unisphere REST API

Creating a SOAP/XML Credential for Dell EMC Unity

To configure SL1 to monitor Dell EMC Unity storage arrays, you must first create a SOAP/XML credential. This credential allows the Dynamic Applications in the *Dell EMC: Unity* PowerPack to use the Unisphere REST API. An example SOAP/XML credential that you can edit for your own use is included in the *Dell EMC: Unity* PowerPack.

To configure the SOAP/XML credential to access the Unisphere REST API:

1. Go to the **Credential Management** page (System > Manage > Credentials).

2. Locate the **Dell EMC: Unity Example** credential, and then click its wrench icon ( ). The **Edit SOAP/XML Credential** page appears:
3. Complete the following fields:
    - ***Profile Name***. Type a new name for the credential.
    - ***HTTP Auth User***. Type the username for a user with access to the Unisphere REST API.
    - ***HTTP Auth Password***. Type the password for the user you specified in the ***HTTP Auth User*** field.

NOTE: The HTTP Headers that are included in the example credential are required to receive a response from the Unisphere REST API. Do not delete or edit them.

4. Click **[Save As]**.
5. When the confirmation message appears, click **[OK]**.

Chapter 3

Discovery

Overview

The following sections describe how to discover Dell EMC Unity storage arrays for monitoring by SL1 using the *Dell EMC: Unity* PowerPack.

This chapter covers the following topics:

Discovering Dell EMC Unity Component Devices 8

Viewing Dell EMC Unity Component Devices 9

Discovering Dell EMC Unity Component Devices

To model and monitor your Dell EMC Unity storage arrays, you must run a discovery session to discover the Unisphere that SL1 will use as the root device for monitoring the Unity storage system.

After the discovery session completes, the Dynamic Applications in the *Dell EMC: Unity* PowerPack automatically align to the storage array device, and then the PowerPack discovers, models, and monitors the remaining Unity component devices.

To discover the Unity arrays that you want to monitor, perform the following steps:

1. Go to the **Discovery Control Panel** page (System > Manage > Classic Discovery).
2. On the **Discovery Control Panel**, click the **[Create]** button. The **Discovery Session Editor** page appears:
3. Complete the following fields:

    - ***IP Address/Hostname Discovery List***. Type the IP address for the Unisphere.
    - ***Other Credentials***. Select the SOAP/XML credential that you created for Unity devices.
    - ***Discover Non-SNMP***. Select this checkbox.

- ***Model Devices***. Select this checkbox.

4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the ***Discovery & Credentials*** manual.
5. Click the **[Save]** button to save the discovery session and then close the **Discovery Session Editor** window.
6. The discovery session you created appears at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon ( ) to run the discovery session.
7. The **Discovery Session** window appears. After the devices are discovered, click the device icon ( ) to view the **Device Properties** page for each device.

Verifying Discovery and Dynamic Application Alignment

To verify that SL1 has automatically aligned the correct Dynamic Applications during discovery:

1. After discovery has completed, click the device icon for the root device ( ).
2. From the **Device Properties** page for the array device, click the **[Collections]** tab. The **Dynamic Application Collections** page appears.
3. All applicable Dynamic Applications for the device are automatically aligned during discovery.

NOTE: It can take several minutes after the discovery session has completed for Dynamic Applications to appear in the **Dynamic Application Collections** page.

The "Dell EMC: Unity Array Discovery" and "Dell EMC: Unity Components Config" Dynamic Applications are automatically aligned to the root device, after which the rest of the Dynamic Applications in the PowerPack will be aligned.

Viewing Dell EMC Unity Component Devices

In addition to the **Device Manager** page (Registry > Devices > Device Manager), you can view the Unity storage devices in the following places in the user interface:

- The **Device View** modal page (click the bar-graph icon [ ] for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:
- The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by SL1 in an indented view, so you can easily view the hierarchy and relationships between child devices, parent devices, and root devices. To view the component devices associated with Dell EMC Unity, find the Unity component device and click its plus icon (+):

- The **Component Map** page (Classic Maps > Device Maps > Components) allows you to view devices by root node and view the relationships between root nodes, parent components, and child components in a map. This makes it easy to visualize and manage root nodes and their components. SL1 automatically updates the **Component Map** page as new component devices are discovered. The platform also updates each map with the latest status and event information. To view the map for an Dell EMC Unity arrays, go to the **Component Map** page and select the map from the list in the left NavBar. To learn more about the **Component Map** page, see the ***Views*** manual.

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