Monitoring Dell PowerStore

Dell: PowerStore PowerPack version 100

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Chapter 1

Introduction

Overview

This manual describes how to monitor Dell PowerStore systems and their components in Skylar One using the "Dell: PowerStore" PowerPack.

This chapter covers the following topics:

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What is Dell PowerStore?

Dell PowerStore is an enterprise storage system used to store and manage large amounts of data for business applications, virtual machines, and databases. It provides available storage that servers can access over the network.

What Does the Dell PowerStore PowerPack Monitor?

The "Dell: PowerStore" PowerPack includes a sample credential for discovering PowerStore devices and Dynamic Applications to monitor PowerStore storage systems.

The "Dell: PowerStore" PowerPack includes:

- Dynamic Applications to automatically detect and monitor Dell PowerStore storage systems and track their health and performance. The following Dynamic Applications are included in this PowerPack:
    - "Dell PowerStore: Volume Performance"
    - "Dell PowerStore: Storage Container Performance"
    - "Dell PowerStore: Appliance Performance"
    - "Dell PowerStore: Volume Configuration"
    - "Dell PowerStore: Storage Container Configuration"
    - "Dell PowerStore: Appliance Configuration"
    - "Dell PowerStore: Storage Container Discovery"
    - "Dell PowerStore: Volume Discovery"
    - "Dell PowerStore: Appliance Discovery"
- A sample credential you can use for discovering PowerStore devices and their componenets.

Installing the Dell: PowerStore PowerPack

Before completing the steps in this manual, you must import and install the latest version of the "Dell: PowerStore" 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 at the ScienceLogic Support Center (Skylar One > PowerPacks, login required).
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 and Discovery

Overview

The following sections describe how to configure and discover devices for monitoring in Skylar One using the "Dell: PowerStore" PowerPack:

This chapter covers the following topics:

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Prerequisites for Monitoring Dell PowerStore Devices

Before you can discover PowerStore storage devices in Skylar One system, you must have the following:

- Skylar One version 12.3.7 or later.
- The sample universal credential that is already provided with this PowerPack.
- New collector groups and the alignment of message collectors to these collector groups.
- All-In-One Appliance or a distributed system that contains a Database Server with one or more message collectors.
- A device aligned to the same collector group as the message collector.

- For distributed systems, you must create a new collector unit group and align message collectors on the **Collector Groups** page (System > Settings > Collector Groups).

Configuring Dell PowerStore Credentials

To use the Dynamic Applications in the "Dell: PowerStore" PowerPack, you must first define a PowerStore credential in Skylar One. These credentials allows Skylar One to communicate with PowerStore appliances. The "Dell: PowerStore" PowerPack includes a sample universal credential template you can edit for use to allow Skylar One to communicate with PowerStore devices.

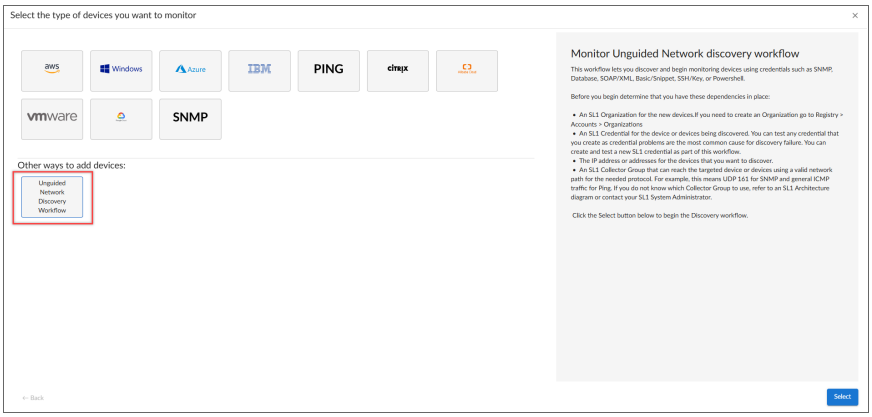
To configure a universal credential using the template:

1. Go to the **Credentials** page (Manage > Credentials).
2. Click the **[Create New]** button and then select *Create Dell PowerStore Credential*. The **Create Credential** page appears.
3. Supply values in the following fields:
    - ***Name***. Enter a name of credential. Can be any combination of alphanumeric characters, up to 64 characters.
    - ***All Organizations***. Toggle on (blue) to align the credential to all organizations, or toggle off (gray) and then select one or more specific organizations from the ***What organization manages this service?*** drop-down field to align the credential with those specific organizations.
    - ***Timeout (ms).*** Keep the default value of 1500 milliseconds. This field defines the time, in milliseconds, after which Skylar One will stop trying to communicate with the external device or application.
    - ***Authentication type***. Select *Basic Authentication*. This field defines the authentication method.
    - ***URL***. Enter the URL for your Dell PowerStore cluster using the format: `http://your-dell-powerstore-cluster/api/rest`.
    - ***Username***. Enter the username to access your Dell PowerStore cluster.
    - ***Password***. Enter the password to access your Dell PowerStore cluster.
5. Click **[Save & Close]**.

Discovering a PowerStore Appliance

To create and run a discovery session that will discover a Dell PowerStore appliance:

1. Go to the **Devices** page ( ) or the **Discovery Session** page (Devices > Discovery Sessions) and click the **[Add Devices]** button. The **Select** page appears.
2. Click the **[Unguided Network Discovery Workflow]** button. Additional information about the requirements for discovery appears in the **General Information** pane to the right.



3. Click **[Select]**. The **Add Devices** page appears.
4. Complete the following fields:
    - ***Discovery Session Name***. Type a unique name for this discovery session. This name is displayed in the list of discovery sessions on the **[Discovery Session]** tab.
    - ***Description***. Optional. Type a short description of the discovery session. You can use the test in this description to search for the discovery session on the **[Discovery Session]** tab.
    - ***Select the organization to add discovered devices to***. Select the name of the organization to which you want to add the discovered devices.
5. Click **[Next]**. The **Credentials** page of the **Add Devices** wizard appears.
6. On the **Credentials** page, locate and select *the credential you created for PowerStore appliances*.
7. Click **[Next]**. The **Discovery Session** page of the **Add Devices** wizard appears.
8. Complete the following fields:
    - ***Name***. Enter a name for your discovery session.
    - ***List of IP/Hostnames***. Type the IP address of your PowerStore cluster.
    - ***Other Credentials***. Select *the credential you created for PowerStore appliances*.
    - ***Run after save***. Select this option to run this discovery session as soon as you save the session.
    - ***Advanced options***. Click the down arrow (⌄) to complete the following fields:
        - ***Discover Non-SNMP***. Enable this setting.
        - ***Log All***. Enable this setting.
9. If you enabled the ***Run after save*** option, click the **[Save and Run]** button. The discovery session will run and the **Discovery Logs** page will display any relevant log messages. If the discovery session locates and adds any devices, the **Discovery Logs** page will include a link to the **Device Investigator** page for the discovered device.
10. If you did not enable the ***Run after save*** option, click the **[Save and Close]** button. The **Discovery Session** page (Devices > Discovery Sessions) will display the new discovery session.

Discovering a PowerStore Appliance in the Skylar One Classic User Interface

To create and run a discovery session that will discover a PowerStore appliance, perform the following steps:

1. Go to the **Discovery Control Panel** page (System > Manage > Classic Discovery or System > Manage > Discovery in the classic user interface).
2. Click the **[Create]** button to create a new discovery session. The **Discovery Session Editor** window appears:
3. Enter values in the following fields:
    - ***Name***. Enter a name for your discovery session.
    - ***IP Address/Hostname Discovery List***. Enter the IP address of your PowerStore cluster.
    - ***Other Credentials***. Select *the credential you created for PowerStore appliances*.
    - ***Discover Non-SNMP***. Select this checkbox.
    - ***Log All***. Select this checkbox.
4. You can enter values in the other fields on this page, but are not required to and can simply accept the default values. For more information about the other fields on this page, see the ***Discovery & Credentials*** manual.
5. Click the **[Save]** button and then close the **Discovery Session Editor** window.
6. The discovery session you created will appear at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon ( ) to run the discovery session.
7. The **Discovery Session** window will be displayed.
8. When the PowerStore appliance is discovered, click its device icon ( ) to view the **Device Properties** page for the PowerStore cluster.

Verifying Discovery and Dynamic Applications

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

1. From the **Device Properties** page for the PowerStore appliance, click the **[Collections]** tab. The **Dynamic Application Collections** page appears.
2. The following Dynamic Applications should be displayed in the list of Dynamic Applications aligned to the PowerStore appliance:
    - "Dell PowerStore: Storage Container Discovery"
    - Dell PowerStore: Appliance Discovery"
3. If one or more of these Dynamic Applications are not automatically aligned with each PowerStore device, follow the instructions in the section on *Manually Aligning the Dynamic Applications* or discover using the device template.

Manually Aligning the Dynamic Applications

If the Dynamic Applications have not been automatically aligned, you can align them manually:

1. From the **Device Properties** page for the PowerStore appliance, click the **[Collections]** tab. The **Dynamic Application Collections** page appears.
2. Click the **[Action]** button and then click *Add Dynamic Application*. The **Dynamic Application Alignment** page appears.
3. In the ***Dynamic Applications*** field, select the Dynamic Application you want to align.
4. In the ***Credentials*** field, select the credential *you created for this PowerStore appliance*.
5. Click **[Save]**.
6. Repeat steps 2-5 for the remaining Dynamic Applications.
7. After aligning the Dynamic Applications, click the **[Reset]** button and then click the plus icon (+) for the Dynamic Application. If collection for the Dynamic Application was successful, the graph icons ( ) for the Dynamic Application are enabled.
8. Click a graph icon ( ) to view the collected data. The **Configuration Report** page will display the number of components of each type and the total number of components managed by the PowerStore appliance.

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