

# Monitoring Dell EMC Isilon

Beta Version

Dell EMC: Isilon PowerPack version 100

## Table of Contents

Introduction	(
Overview	
What is Dell EMC Isilon?	
Prerequisites	
What Does the Dell EMC: Isilon PowerPack Monitor?	
Installing the PowerPack	
Configuring Dell EMC Isilon for Monitoring	(
Overview	
Creating a SOAP/XML Credential for Dell EMC Isilon	
Configuring Traps with Dell EMC Isilon	
Discovering Dell EMC Isilon Arrays	
Overview	
Discovering Dell EMC Isilon Component Devices	
Verifying Discovery and Dynamic Application Alignment	
Viewing Dell FMC Isilon Component Devices	12

# Chapter

1

### Introduction

#### Overview

This manual describes how to monitor Dell EMC Isilon storage arrays in the ScienceLogic platform.

NOTE: ScienceLogic provides this documentation for the convenience of ScienceLogic customers. Some of the configuration information contained herein pertains to third-party vendor software that is subject to change without notice to ScienceLogic. ScienceLogic makes every attempt to maintain accurate technical information and cannot be held responsible for defects or changes in third-party vendor software. There is no written or implied guarantee that information contained herein will work for all third-party variants. See the End User License Agreement (EULA) for more information.

### What is Dell EMC Isilon?

Dell EMC Isilon is a clustered, scale-out Network Attached Storage (NAS) array. The Dell EMC: Isilon PowerPack uses the Isilon API to discover the array and collect health, configuration, performance, and capacity information.

Introduction 3

### Prerequisites

Before performing the tasks in this manual, you must have already properly installed and configured the Dell EMC Isilon storage devices that you want to monitor with the ScienceLogic platform.

You should also take note of the SNMP community string used by the Dell EMC Isilon storage devices you want to monitor.

### What Does the Dell EMC: Isilon PowerPack Monitor?

To monitor Dell EMC Isilon storage devices with the ScienceLogic platform, you must install the Dell EMC: IsilonPowerPack. This PowerPack lets you discover, model, and collect data about Isilon storage devices.

The Dell EMC: Isilon PowerPack includes:

- An example credential you can use as a template to create a SOAP/XML credential to connect to the Isilon storage devices you want to monitor
- Dynamic Applications to discover, model, and monitor performance metrics and collect configuration data for Isilon storage devices
- Device Classes for each of the Isilon storage devices that the ScienceLogic platform monitors
- Event Policies and corresponding alerts that are triggered when Isilon storage devices meet certain status criteria

### Installing the PowerPack

Before completing the steps in this manual, you must import and install version 103 of the Dell EMC Isilon PowerPack.

**NOTE**: To install version 103 of the PowerPack, your ScienceLogic system must be upgraded to the 8.2.0 or later release.

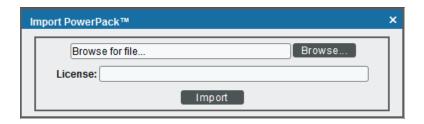
To download and install a PowerPack:

TIP: By default, installing a new version of a PowerPack overwrites 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 new PowerPacks from overwriting local changes for some commonly customized fields. (For more information, see the System Administration manual.)

1. Download the PowerPack from the ScienceLogic Customer Portal.

4 Introduction

- 2. Go to the **PowerPack Manager** page (System > Manage > PowerPacks).
- 3. In the **PowerPack Manager** page, click the **[Actions]** button, then select *Import PowerPack*.
- 4. The **Import PowerPack** dialog box appears:



- 5. Click the [Browse] button and navigate to the PowerPack file.
- 6. When the PowerPack Installer modal page appears, click the [Install] button to install the PowerPack.

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

Introduction 5

## Chapter

2

## **Configuring Dell EMC Isilon for Monitoring**

#### Overview

The following sections describe how to configure the ScienceLogic platform to monitor Dell EMC Isilon storage devices:

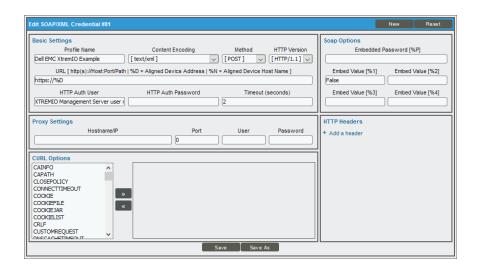
- Creating a SOAP/XML Credential for Dell EMC Isilon
- Configuring Traps with Dell EMC Isilon

## Creating a SOAP/XML Credential for Dell EMC Isilon

To configure the ScienceLogic platform to monitor Dell EMC Isilon storage devices, you must first create a credential that allows the Dynamic Applications in the PowerPack to communicate with your XtremIO storage devices. The Dell EMC: Isilon PowerPack includes an example SOAP/XML credential that you can edit for your own use.

To configure the SOAP/XML credential to access Dell EMC Isilon devices:

- 1. Go to the **Credential Management** page (System > Manage > Credentials).
- 2. Locate the **Dell EMC Isilon Example SOAP/XML** credential, and then click its wrench icon (**\***). The **Edit SOAP/XML Credential** modal page appears.



3. Update the values in the following fields:

#### **Basic Settings**

- Profile Name. Type a name for the credential.
- Content Encoding. Select text/xml.
- Method. Select POST.
- HTTP Version. Select HTTP/1.1.
- URL. Type the device IP address or the host name for your XtremIO devices.
- HTTP Auth User. Type the Isilon administrator username.
- HTTP Auth Password. Type the Isilon administrator password.
- Timeout (seconds). Type "2".

#### **Proxy Settings**

- Hostname/IP. Leave this field blank.
- Port. Type "0".
- User. Leave this field blank.

#### **CURL Options**

• CURL Options. Do not make any selections in this field.

#### **SOAP Options**

- Embedded Password [%P]. Leave this field blank.
- Embed Value [%1]. Type "True" to enable verification of the storage array's self-signed certificate. Since the certificate is self-signed, you will need to determine if you trust the certificate and, if so, add it to a file. Append the applicable XMS root certificates to the file located at /var/lib/em7/content/silo\_rest/root\_cert/xms\_root\_ca.crt for any XMS being monitored. Type "False" or leave this field blank to disable SSL verification. This field is not casesensitive.
- Embed Value [%2]. Leave this field blank.
- Embed Value [%3]. Leave this field blank.
- Embed Value [%4]. Leave this field blank.

#### **HTTP Headers**

- HTTP Headers. Do not make any selections in this field.
- 4. Click the [Save As] button.

## Configuring Traps with Dell EMC Isilon

If you are using SNMP traps with Dell EMC Isilon, use the IP address of the Message Collector, Data Collector, or All-In-One Appliance responsible for monitoring the system as the destination IP.

For more information, see the Dell EMC Isilon documentation.

## Chapter

3

## **Discovering Dell EMC Isilon Arrays**

#### Overview

The following sections describe the steps required to discover Dell EMC Isilon storage devices in the ScienceLogic platform:

- Discovering Dell EMC Isilon Component Devices
- Verifying Discovery and Dynamic Application Alignment
- Viewing Dell EMC Isilon Component Devices

### Discovering Dell EMC Isilon Component Devices

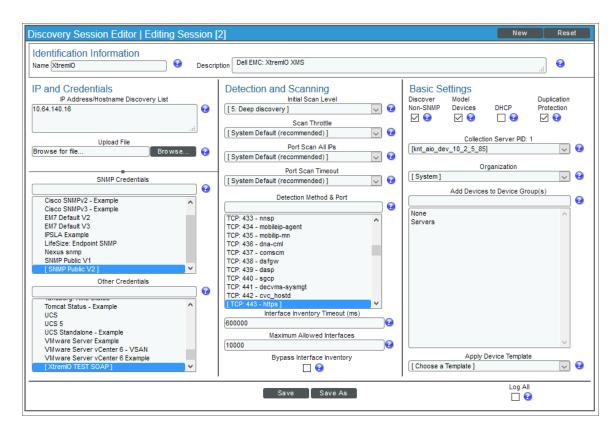
To model and monitor your Dell EMC Isilon storage devices, you must run a discovery session to discover the Isilon Management Server (XMS) device and Isilon clusters that the ScienceLogic platform will use as the root devices for monitoring the applications.

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

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

1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).





- 3. Supply values in the following fields:
  - IP Address/Hostname Discovery List. Enter the IP address or hostname for the XtremIO storage device or devices that you want to discover.
  - SNMP Credentials. Select the SNMP credential that you are using for XtremIO.
  - Other Credentials. Select the Basic/Snippet or SOAP/XML credential that you created for your XtremIO storage devices.
  - Initial Scan Level. Select 5. Deep Discovery.
  - **Detection Method & Port**: Select TCP: 443 https.
  - Discover Non-SNMP. Select this checkbox.
  - Model Devices. Select this checkbox.
  - Duplication Protection. 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.

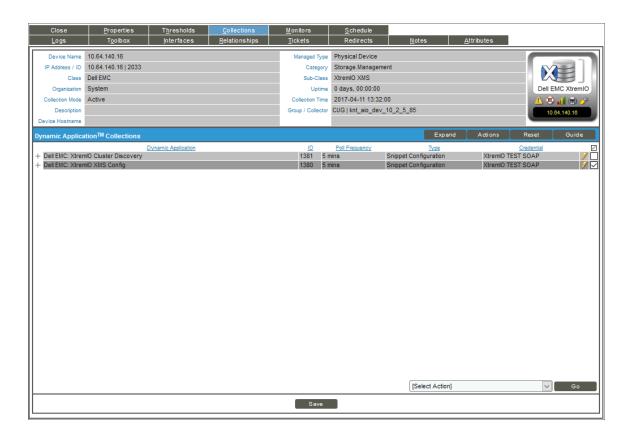
7. The **Discovery Session** window appears. After the devices are discovered, click the device icon () to view the **Device Properties** page for each device.

### Verifying Discovery and Dynamic Application Alignment

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

- 1. After discovery has completed, click the device icon for the XMS device (). From the **Device Properties** page for the XMS device, click the **[Collections]** tab. The **Dynamic Application Collections** page appears.
- 2. All applicable Dynamic Applications for the XMS 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.

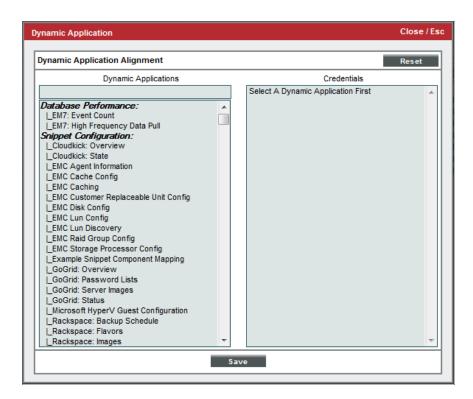


You should see the following Dynamic Applications aligned to the XMS device:

Dynamic Application	Credential Type
Dell EMC: XtremIO Cluster Discovery	SOAP/XML
Dell EMC: XtremIO XMS Config	SOAP/XML

If the listed Dynamic Applications have not been automatically aligned during discovery, you can align them manually. To do so, perform the following steps:

1. Click the [Action] button and then select Add Dynamic Application. The **Dynamic Application Alignment** page appears:

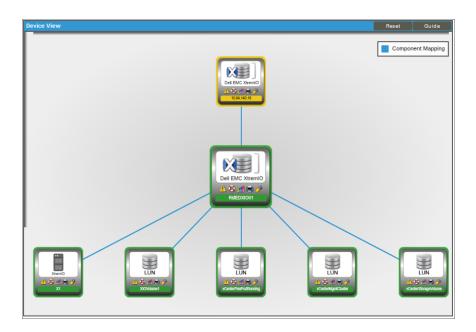


- 2. In the **Dynamic Applications** field, select the Dynamic Application you want to align.
- 3. In the **Credentials** field, select the credential specified in the table.
- 4. Click the [Save] button.
- 5. Repeat steps 1-4 for the other unaligned Dynamic Applications.

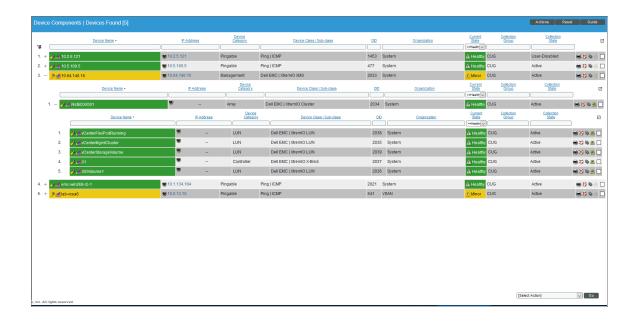
## Viewing Dell EMC Isilon Component Devices

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

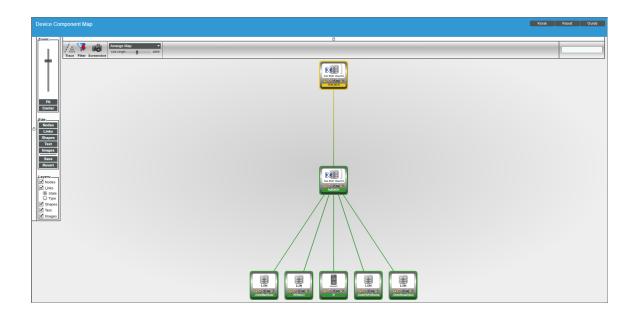
• The **Device View** modal page (click the bar-graph icon [411] for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:



• The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by the ScienceLogic platform 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 XtremIO, find the XtremIO component device and click its plus icon (+):



• The Component Map page (Views > 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. The ScienceLogic platform automatically updates the Component Map 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 Isilon 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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