



Monitoring Cisco HyperFlex

Beta Version

Cisco: HyperFlex PowerPack version 101, revision 2

Table of Contents

Introduction	3
What Does the Cisco: HyperFlex PowerPack Monitor?	3
Installing the Cisco: HyperFlex PowerPack	4
Configuration and Discovery	5
Prerequisites for Monitoring Cisco HyperFlex	5
Creating a SOAP/XML Credential for Cisco HyperFlex	5
Discovering Cisco HyperFlex Devices	7

Chapter

1

Introduction

Overview

This manual describes how to monitor Cisco HyperFlex data clusters in SL1 using the Dynamic Applications in the *Cisco: Hyperflex PowerPack*.

The following sections provide an overview of Cisco HyperFlex and the *Cisco HyperFlex PowerPack*:

What Does the Cisco: HyperFlex PowerPack Monitor?	3
Installing the Cisco: HyperFlex PowerPack	4

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What Does the Cisco: HyperFlex PowerPack Monitor?

To monitor HyperFlex data clusters using SL1, you must install the *Cisco: Hyperflex PowerPack*. This PowerPack enables you to discover, model, and collect data about HyperFlex data clusters.

The *Cisco: Hyperflex PowerPack* includes:

- An example credential you can use to create SOAP/XML credentials to connect to HyperFlex data clusters

- Dynamic Applications to discover and monitor HyperFlex data clusters
- A Device Class for HyperFlex data clusters
- Event Policies and corresponding alerts that are triggered when HyperFlex data clusters meet certain status criteria
- A Run Book Action and Policy to ensure that HyperFlex devices are classified to the appropriate Device Class

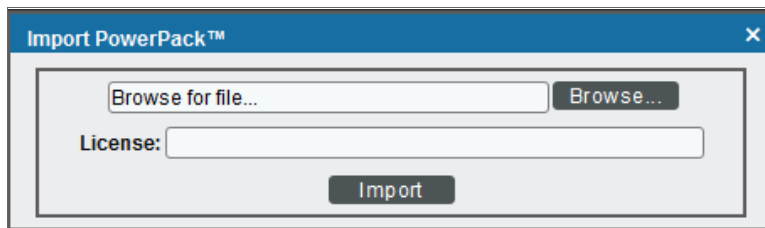
Installing the Cisco: HyperFlex PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *Cisco: Hyperflex 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.)

To download and install a PowerPack:

1. Download the PowerPack from the [ScienceLogic Customer Portal](#).
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*.

Chapter

2

Configuration and Discovery

Overview

The following sections describe how to configure and discover Cisco HyperFlex data clusters for monitoring by SL1 using the *Cisco: Hyperflex PowerPack*:

<i>Prerequisites for Monitoring Cisco HyperFlex</i>	5
<i>Creating a SOAP/XML Credential for Cisco HyperFlex</i>	5
<i>Discovering Cisco HyperFlex Devices</i>	7

Prerequisites for Monitoring Cisco HyperFlex

To configure SL1 to monitor Cisco HyperFlex using the *Cisco: Hyperflex PowerPack*, you must have the following information about the HyperFlex data clusters that you want to monitor:

- IP addresses for the voice mailboxes
- SNMP community strings for the voice mailboxes

Creating a SOAP/XML Credential for Cisco HyperFlex

To configure SL1 to monitor Cisco HyperFlex, you must first create a SOAP/XML credential. This credential allows SL1 (specifically, the Dynamic Applications in the *Cisco: HyperFlex PowerPack*) to connect with HyperFlex devices. An example SOAP/XML credential that you can edit for your own use is included in the *Cisco: HyperFlex PowerPack*.

To configure a SOAP/XML credential to access HyperFlex devices:

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

2. Locate the sample credential included in the *Cisco: HyperFlex PowerPack*, called **Cisco: HyperFlex - Example**, then click its wrench icon (🔧).
3. Enter values in the following fields:

Basic Settings

- **Profile Name**. Enter a new name for the HyperFlex credential.
- **Content Encoding**. Select *text/xml*.
- **Method**. Select *POST*.
- **HTTP Version**. Select *HTTP/1.1*.
- **URL**. Keep the default value.
- **HTTP Auth User**. Enter the username for a user with administrative access to the HyperFlex devices.
- **HTTP Auth Password**. Enter the HyperFlex administrator user's password.

Proxy Settings

- **Hostname/IP**. Leave this field blank.
- **Port**. Keep the default value.
- **User**. Enter the SSH username for the HyperFlex device(s).
- **Password**. Enter the SSH password for the HyperFlex device(s).

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

Discovering Cisco HyperFlex Devices


To create and run a discovery session that will discover Cisco HyperFlex devices, perform the following steps:


1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).
2. Click the **[Create]** button to create a new discovery session. The **Discovery Session Editor** page appears:

The screenshot shows the 'Discovery Session Editor | Editing Session [14]' window. It is divided into several sections:

- Identification Information:** Name: Hyperflex mock, Description: (empty).
- IP and Credentials:** IP Address/Hostname Discovery List: 10.2.8.32. Includes 'Upload File' and 'Browse...' buttons. Below is a list of SNMP Credentials, with 'Cisco: Hyperflex - Example' selected. There is also an 'Other Credentials' list.
- Detection and Scanning:** Initial Scan Level, Scan Throttle, Port Scan All IPs, and Port Scan Timeout are all set to '[System Default (recommended)]'. The 'Detection Method & Port' list includes 'UDP: 161 SNMP' and several TCP ports. 'Interface Inventory Timeout (ms)' is 600000 and 'Maximum Allowed Interfaces' is 10000. 'Bypass Interface Inventory' is unchecked.
- Basic Settings:** 'Discover Non-SNMP' is checked. 'Model Devices' is checked. 'DHCP' is unchecked. 'Duplication Protection' is checked. 'Collection Server PID' is '[SL_AIO]'. 'Organization' is '[TestOrg_Cisco_CSP]'. 'Add Devices to Device Group(s)' is 'None Servers'. 'Apply Device Template' is '[Choose a Template]'.

At the bottom, there are 'Save' and 'Save As' buttons, and a 'Log All' checkbox which is checked.

3. Enter values in the following fields:
 - **IP Address Discovery List.** Enter the IP address(es) for the Cisco HyperFlex device(s) you want to discover.
 - **SNMP Credential.** Select the [SOAP/XML credential that you created for Cisco HyperFlex](#).
 - **Discover Non-SNMP.** 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 and Credentials** manual.
5. Click **[Save]** 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.
8. When the Cisco HyperFlex data cluster is discovered, click its device icon () to view its **Device Properties** page.

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800-SCI-LOGIC (1-800-724-5644)

International: +1-703-354-1010