



Monitoring Cisco Catalyst Center

Cisco: Catalyst Center PowerPack version 100

Table of Contents

Introduction	3
What is Cisco Catalyst Center?	3
What Does the Cisco: Catalyst Center PowerPack Monitor?	4
Installing the Cisco: Catalyst Center PowerPack	5
Configuration and Discovery	6
Prerequisites for Monitoring Cisco Catalyst Center	6
Creating a Credential for Cisco Catalyst Center	7
Creating a Cisco Catalyst Center Virtual Device	7
Verifying Dynamic Application Alignment	10
Verifying Dynamic Application Alignment in the Skylar One Classic User Interface	10

Chapter

1

Introduction

Overview

This manual describes how to monitor "Cisco: Catalyst Center" PowerPack.

This chapter covers the following topics:

<i>What is Cisco Catalyst Center?</i>	3
<i>What Does the Cisco: Catalyst Center PowerPack Monitor?</i>	4
<i>Installing the Cisco: Catalyst Center PowerPack</i>	5

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 Cisco Catalyst Center?

Cisco Catalyst Center is a network management and automation platform used for the management of Cisco Catalyst network infrastructure.

This PowerPack includes the following features:

- Dynamic Applications to discover and monitor Cisco Catalyst devices.
- Device classes for each type of Cisco Catalyst device that Skylar One monitors.
- A sample credential you can use as templates to monitor Cisco Catalyst deployments.
- This PowerPack is compatible with Python 3.11.

What Does the Cisco: Catalyst Center PowerPack Monitor?

The "Cisco: Catalyst Center" PowerPack enables you to discover and collect network data from the Cisco Catalyst Center's platform and its' infrastructure components.

The "Cisco: Catalyst Center" PowerPack includes:

- Dynamic Applications to discover, model, and monitor performance metrics and/or collect configuration data for Cisco Catalyst network infrastructure components:
 - Cisco: Catalyst Center Applications

NOTE: The "Cisco: Catalyst Center Applications" Dynamic Application is disabled by default. To enable it, go to the **Dynamic Applications** page (System > Manage > Dynamic Applications), click the wrench icon for this Dynamic Application, and select *[Enabled]* from the **Operational State** field.

- Cisco: Catalyst Center Device Consumer Configuration
- Cisco: Catalyst Center Device Consumer Performance
- Cisco: Catalyst Center Devices Producer Performance
- Cisco: Catalyst Center Licenses Configuration
- Cisco: Catalyst Center Membership Consumer Discovery
- Cisco: Catalyst Center Membership Producer Performance
- Cisco: Catalyst Center Nodes Configuration
- Cisco: Catalyst Center Release Summary
- Cisco: Catalyst Center Site Consumer Configuration
- Cisco: Catalyst Center Site Health Consumer Performance
- Cisco: Catalyst Center Site Health Producer Performance
- Cisco: Catalyst Center Sites Consumer Discovery
- Cisco: Catalyst Center Sites Producer Discovery

- Cisco: Catalyst Center Tags Configuration
- Cisco: Catalyst Center Vlan
- A sample credential you can use as a template to connect to Cisco Catalyst Center network infrastructure components.

Installing the Cisco: Catalyst Center PowerPack

Before completing the steps in this manual, you must import and install the latest version of the "Cisco: Catalyst Center" 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 and Discovery

Overview

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

This chapter covers the following topics:

<i>Prerequisites for Monitoring Cisco Catalyst Center</i>	6
<i>Creating a Credential for Cisco Catalyst Center</i>	7
<i>Creating a Cisco Catalyst Center Virtual Device</i>	7
<i>Verifying Dynamic Application Alignment</i>	10

Prerequisites for Monitoring Cisco Catalyst Center

Before you can monitor Cisco Catalyst Center network infrastructure components in Skylar One, you must have the following:

- Skylar One version 12.3.1 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).

Creating a Credential for Cisco Catalyst Center

To configure Skylar One to monitor Cisco Catalyst Center network infrastructure, you must first create a universal credential. This credential allows the Dynamic Applications in the "Cisco: Catalyst Center" PowerPack to communicate with your Cisco DNA Center account.

The PowerPack includes a sample universal credential that you can edit for your own use.

To configure a universal credential:

1. Go to the **Credentials** page (Manage > Credentials).
2. Locate the sample credential "CCC Sandbox Cred", click its **[Actions]** icon () and select **Duplicate**. A copy of the credential appears.
3. Click the **[Actions]** icon () for the "CCC Sandbox Cred copy" credential and select **Edit**. The **Edit Credential** page appears:
4. Enter values in the following fields:
 - **Name**. Type a new name for the credential.
 - **All Organizations**. Toggle on (blue) to align the credential to all organizations, or toggle off (gray)
 - **Select the organizations the credential belongs to**. Select one or more specific organizations to align the credential with those specific organizations.
 - **Timeout (ms)**. Enter the time, in milliseconds, after which Skylar One will stop trying to communicate with the external device or application.
 - **URL**. Specify the IP of the Cisco Catalyst Center web interface.
 - **Authentication type**. Enter "CiscoCatalystCenterAuth".
 - **Cisco Catalyst Center Username**. Enter the username for the Cisco DNA Center account.
 - **Cisco Catalyst Center Password**. Enter the password for the Cisco DNA Center account.
5. Click the **[Save & Close]** button.

Creating a Cisco Catalyst Center Virtual Device

To discover a Cisco Catalyst Center network infrastructure components, you must create a **virtual device** that represents the root device. A virtual device is a user-defined container that represents a device or service that cannot be discovered by Skylar One. You can use the virtual device to store information gathered by policies or Dynamic Applications.

TIP: If you have multiple Cisco Catalyst Center network infrastructure components you want to monitor, you should create a separate virtual device for each root device. You can also create different organizations for each component.

To create a virtual device that represents your Cisco Catalyst Center network infrastructure component:

1. Go to the **Device Manager** page (Devices > Classic Devices, or Registry > Devices > Device Manager in the classic SL1 user interface).
2. Click the **[Actions]** button and select *Create Virtual Device* from the menu. The **Create Virtual Device** modal page appears.
3. Enter values in the following fields:
 - **Device Name.** Enter a name for the device.
 - **Organization.** Select the organization for this device. The organization you associate with the device limits the users that will be able to view and edit the device. Typically, only members of the organization will be able to view and edit the device.
 - **Device Class.** Select *Cisco | Catalyst Center*.
 - **Collector.** Select *CUG*.
4. Click the **[Add]** button to create the virtual device.

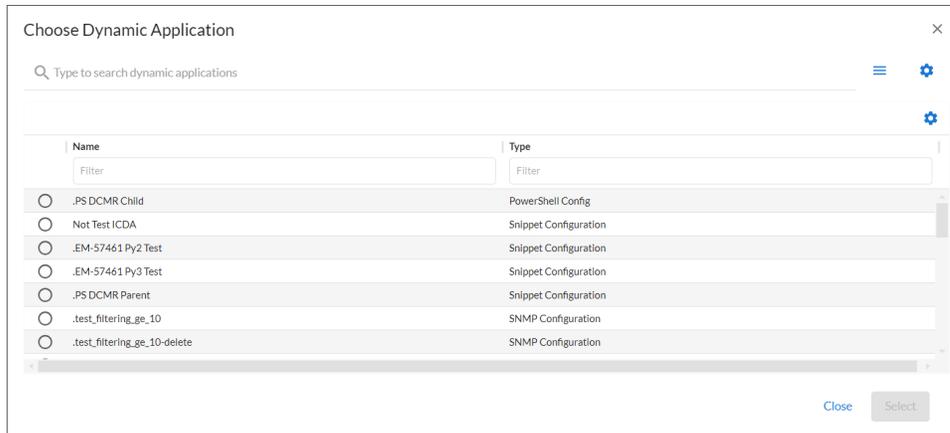
Once you have created the virtual device, you will need to manually align the following Dynamic Applications to the virtual device using the SOAP/XML credential created above:

- Cisco: Catalyst Center Device Consumer Configuration
- Cisco: Catalyst Center Device Consumer Performance
- Cisco: Catalyst Center Devices Producer Performance
- Cisco: Catalyst Center Site Health Producer Performance
- Cisco: Catalyst Center Applications
- Cisco: Catalyst Center Licenses Configuration
- Cisco: Catalyst Center Nodes Configuration
- Cisco: Catalyst Center Release Summary
- Cisco: Catalyst Center Sites Producer Discovery
- Cisco: Catalyst Center Tags Configuration

If you have the proper user permissions, you can manually align a new Dynamic Application to a device or unalign a currently aligned Dynamic Application from a device.

To align a Dynamic Application to a device:

1. On the **[Collections]** tab of the **Device Investigator**, click **[Edit]** and then click **[Align Dynamic Application]**. The **Align Dynamic Application** window appears.
2. Click *Choose Dynamic Application*. The **Choose Dynamic Application** window appears:



TIP: You can filter the items on this inventory page by typing filter text or selecting filter options in one or more of the filters found above the columns on the page. For more information, see "Filtering Inventory Pages" in the *Introduction to Skylar One* manual.

TIP: You can adjust the size of the rows and the size of the row text on this inventory page. For more information, see the section on "Adjusting the Row Density" in the *Introduction to Skylar One* manual.

3. Select the Dynamic Application you want to align and click **[Select]**. The name of the selected Dynamic Application appears in the **Align Dynamic Application** window.
4. If a default credential is listed below the Dynamic Application and you want to use that credential, skip ahead to step 7. Otherwise, uncheck the box next to the credential name.
5. Click *Choose Credential*. The **Choose Credential** window appears.
6. Select the credential for the Dynamic Application and click the **[Select]** button. The name of the selected credential appears in the **Align Dynamic Application** window.
7. Click the **[Align Dynamic App]** button. When the Dynamic Application is successfully aligned, it is added to the **Collections** tab, and a confirmation message appears at the bottom of the tab.

TIP: To *unalign* a Dynamic Application from a device, click the **[Actions]** button (**...**) for that Dynamic Application and select *Unalign Dynamic App*. However, be advised that when you unalign a Dynamic Application, you also delete the data it has collected.

For more information, see the section on "Manually Aligning a Dynamic Application to a Device" of the **Managing Dynamic Applications** manual.

Verifying Dynamic Application Alignment

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

1. After creating the virtual device and aligning the credential to the template, go to the **Devices** page and click the virtual device you have previously created. From the **Device Investigator** page, click the **[Collections]** tab.
2. All applicable Dynamic Applications for the switch are automatically aligned during discovery and will appear in the **[Collections]** tab.

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

- Cisco: Catalyst Center Applications
- Cisco: Catalyst Center Device Consumer Configuration
- Cisco: Catalyst Center Device Consumer Performance
- Cisco: Catalyst Center Devices Producer Performance
- Cisco: Catalyst Center Licenses Configuration
- Cisco: Catalyst Center Membership Consumer Discovery
- Cisco: Catalyst Center Membership Producer Performance
- Cisco: Catalyst Center Nodes Configuration
- Cisco: Catalyst Center Release Summary
- Cisco: Catalyst Center Site Consumer Configuration
- Cisco: Catalyst Center Site Health Consumer Performance
- Cisco: Catalyst Center Site Health Producer Performance
- Cisco: Catalyst Center Sites Consumer Discovery
- Cisco: Catalyst Center Sites Producer Discovery
- Cisco: Catalyst Center Tags Configuration
- Cisco: Catalyst Center Vlan

NOTE: Alternatively, you can verify Skylar One has aligned the correct Dynamic Applications to the virtual device on the **Device Components** page (Devices > Device Components), which displays a DCM tree showing hierarchical configuration structure.

Verifying Dynamic Application Alignment in the Skylar One Classic User Interface

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

1. After creating the virtual device and aligning the credential to the template, go to the **Device Manager** page and click the wrench icon () for the Cisco Catalyst virtual device. From the **Device**

Properties page, click the **[Collections]** tab. The **Dynamic Application Collections** page appears.

2. All applicable Dynamic Applications for the switch are automatically aligned during discovery.

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

- Cisco: Catalyst Center Applications
- Cisco: Catalyst Center Device Consumer Configuration
- Cisco: Catalyst Center Device Consumer Performance
- Cisco: Catalyst Center Devices Producer Performance
- Cisco: Catalyst Center Licenses Configuration
- Cisco: Catalyst Center Membership Consumer Discovery
- Cisco: Catalyst Center Membership Producer Performance
- Cisco: Catalyst Center Nodes Configuration
- Cisco: Catalyst Center Release Summary
- Cisco: Catalyst Center Site Consumer Configuration
- Cisco: Catalyst Center Site Health Consumer Performance
- Cisco: Catalyst Center Site Health Producer Performance
- Cisco: Catalyst Center Sites Consumer Discovery
- Cisco: Catalyst Center Sites Producer Discovery
- Cisco: Catalyst Center Tags Configuration
- Cisco: Catalyst Center Vlan

© 2003 - 2025, ScienceLogic, Inc.

All rights reserved.

ScienceLogic™, the ScienceLogic logo, and ScienceLogic's product and service names are trademarks or service marks of ScienceLogic, Inc. and its affiliates. Use of ScienceLogic's trademarks or service marks without permission is prohibited.

ALL INFORMATION AVAILABLE IN THIS GUIDE IS PROVIDED "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED. SCIENCELOGIC™ AND ITS SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT.

Although ScienceLogic™ has attempted to provide accurate information herein, the information provided in this document may contain inadvertent technical inaccuracies or typographical errors, and ScienceLogic™ assumes no responsibility for the accuracy of the information. Information may be changed or updated without notice. ScienceLogic™ may also make improvements and / or changes in the products or services described herein at any time without notice.

ScienceLogic

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

International: +1-703-354-1010