Monitoring Cisco Cloud Center

Beta Version

Cisco: Cloud Center PowerPack version 103

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Chapter 1

Introduction

Overview

This manual describes how to monitor Cisco Cloud Center using the ScienceLogic platform.

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What is Cisco Cloud Center?

Cisco Cloud Center is a cloud-management platform used for deploying and managing applications in data centers, private clouds, and public clouds.

What Does the Cisco: Cloud Center PowerPack Monitor?

To monitor Cloud Center using the ScienceLogic platform, you must install the *Cisco: Cloud Center* PowerPack. This PowerPack enables you to collect data about Cloud Center. The *Cisco: Cloud Center* PowerPack can monitor Cloud Center Manager running version 4.6 and later.

The *Cisco: Cloud Center* PowerPack includes:

- An example credential you can use as a template to create a Basic/Snippet credential to connect to the Cloud Center Manager

- Dynamic Applications and Run Book Actions to discover, model, and monitor performance metrics and/or collect configuration data for the following Cloud Center components:
    - Cloud Center Manager
    - Cloud Center Orchestrator
    - Cloud Center Heath Monitor
    - Cloud Center Clouds
    - Cloud Center Application Instances
    - Cloud Center Regions
    - Cloud Center Tenants
    - RabbitMQ
- Device Classes for each of the Cloud Center components the ScienceLogic platform monitors
- Event Policies and corresponding alerts that are triggered when Cloud Center components meet certain status criteria

Installing the Cisco: Cloud Center PowerPack

Before completing the steps in this manual, you must import and install version 103 of the *Cisco: Cloud Center* PowerPack.

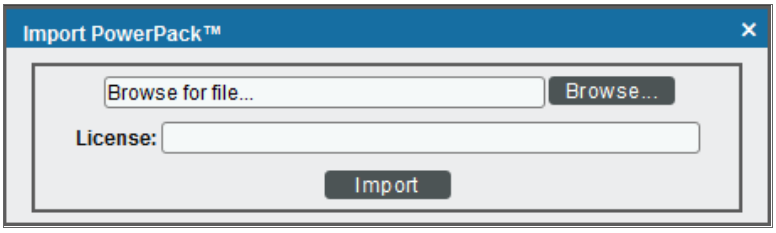
NOTE: To install version 103 of the *Cisco: Cloud Center* PowerPack, your ScienceLogic system must be upgraded to the 8.2.0 or later release.

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.
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

Discovering Cloud Center Manager

Overview

The following sections describe how to configure and discover a Cloud Center Manager for monitoring by the ScienceLogic platform using the *Cisco: Cloud Center* PowerPack:

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Prerequisites

Before performing the tasks in this manual, you must have the following information about the Cloud Center Manager that you want to monitor:

- The IP address of the Cloud Center Manager system
- The username and API key for a Cisco Cloud Center Manager user that has root tenant administration privileges. This account must be an API user, not a GUI user. For information about configuring API users in Cisco Cloud Center Manager, see http://docs.cloudcenter.cisco.com/display/40API/API+Management+Key.

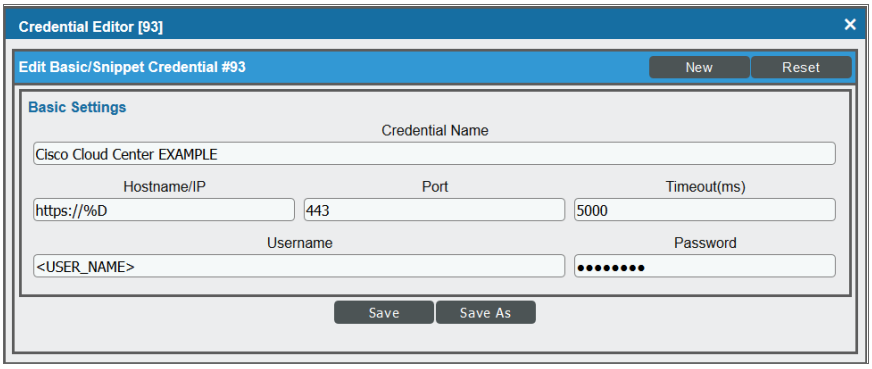
Creating a Credential for the Cloud Center Manager Root Tenant

To configure the ScienceLogic platform to monitor Cloud Center Manager, you must first create a Basic/Snippet credential. This credential allows the platform (specifically, the Dynamic Applications in the *Cisco: Cloud Center* PowerPack) to communicate with your Cloud Center Manager.

The PowerPack includes an example Basic/Snippet credential that you can edit for your own use.

To configure a Basic/Snippet credential to access a Cloud Center Manager:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the **Cisco Cloud Center EXAMPLE** credential, then click its wrench icon ( ). The **Edit Basic/Snippet Credential** modal page appears.
3. Enter values in the following fields:



- ***Profile Name***. Enter a name for the Cloud Center Manager credential.
- ***Username***. Enter the username for a Cloud Center Manager user that has root tenant administration privileges. This account must be an API user, not a GUI user.
- ***Password***. Enter the API key for the user you entered in the ***Username*** field.

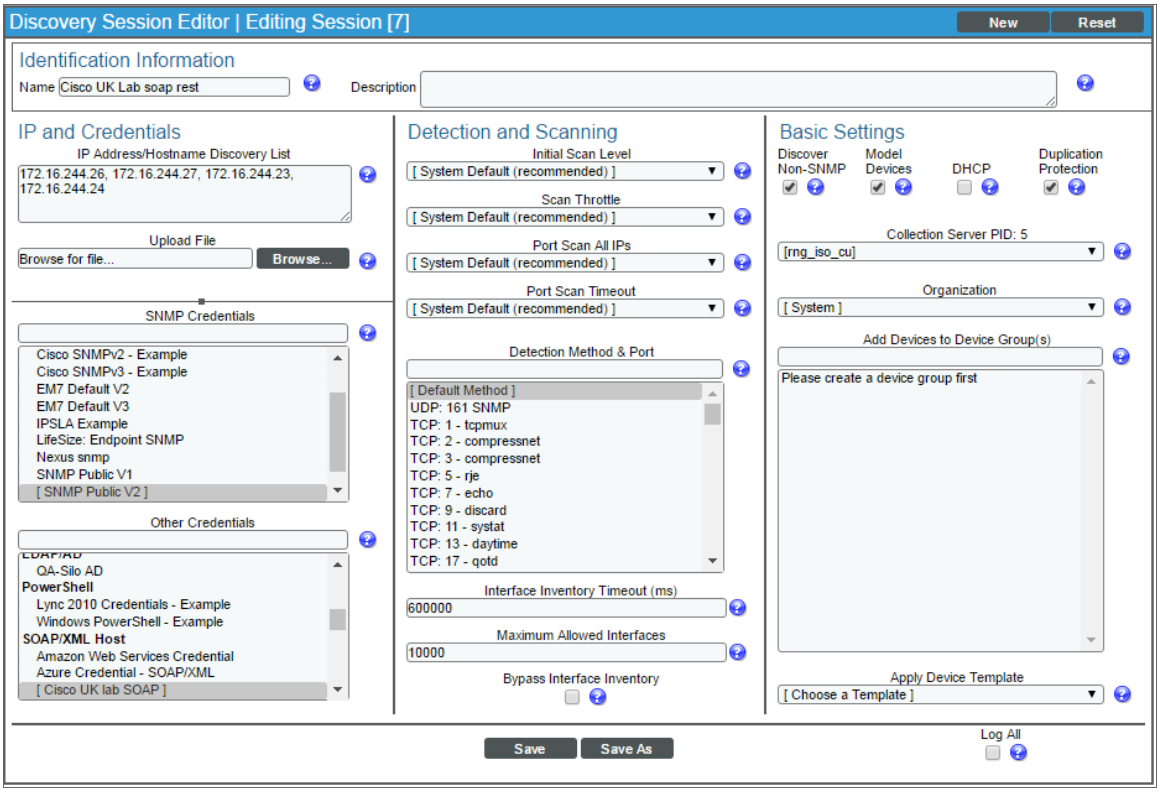
4. Leave all other fields set to the default values. Click the **[Save As]** button.

Discovering the Cloud Center Manager Root Tenant

To discover Cloud Center Manager, perform the following steps:

1. Go to the **Discovery Control Panel** page (System > Manage > Discovery).
2. In the **Discovery Control Panel**, click the **[Create]** button.

3. The **Discovery Session Editor** page appears. In the **Discovery Session Editor** page, define values in the following fields:



- ***IP Address/Hostname Discovery List***. Enter the IP address for the Cloud Center Manager.
- ***SNMP Credentials***. Optionally, select the SNMP credential for the Cloud Center Manager you are discovering.
- ***Other Credentials***. Select the Basic/Snippet credential you created for the Cloud Center Manager root tenant.
- ***Discover Non-SNMP***. Select this checkbox.

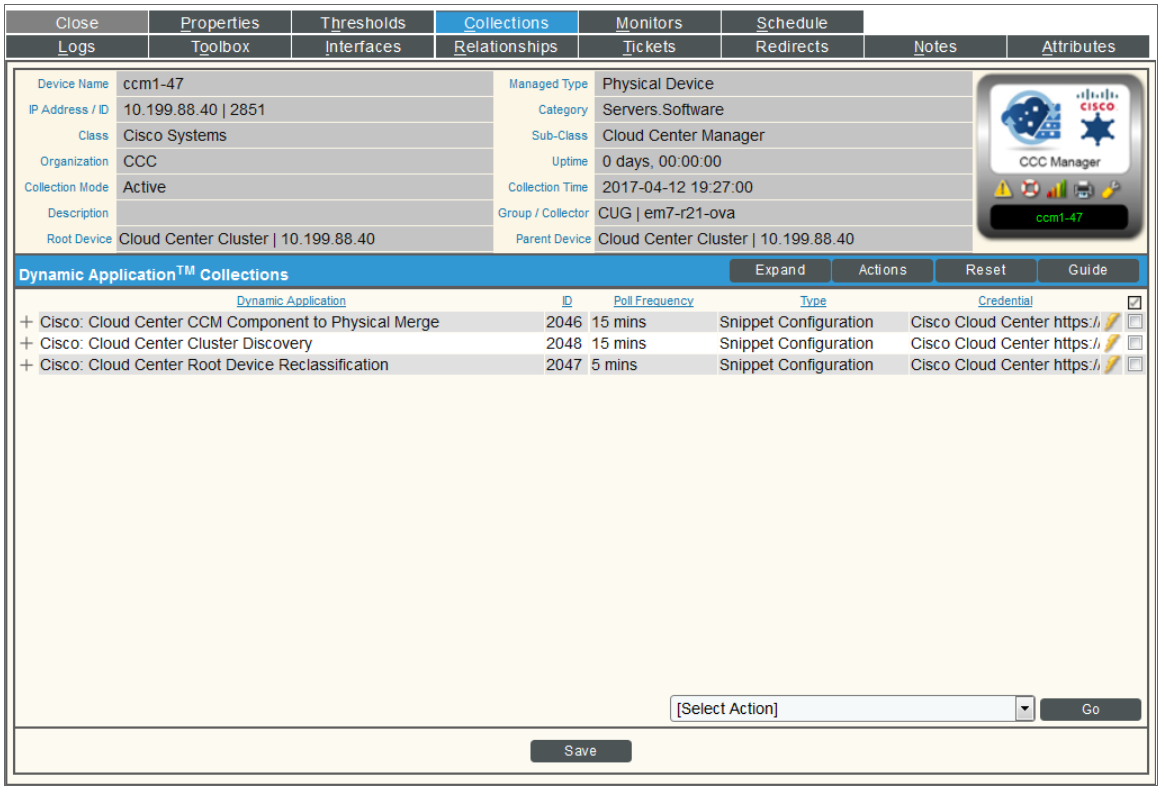
4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the ***Discovery & Credentials*** manual.
5. Click the **[Save]** button to save the discovery session and then close the **Discovery Session Editor** window.
6. The discovery 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. When the device is discovered, click the device icon ( ) to view the **Device Properties** page for the device.

Verifying Discovery and Dynamic Application Alignment

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

1. From the **Device Properties** page for the Cloud Center Manager device, click the **[Collections]** tab. The **Dynamic Application Collections** page appears.
2. All applicable Dynamic Applications for Cloud Center Manager 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.

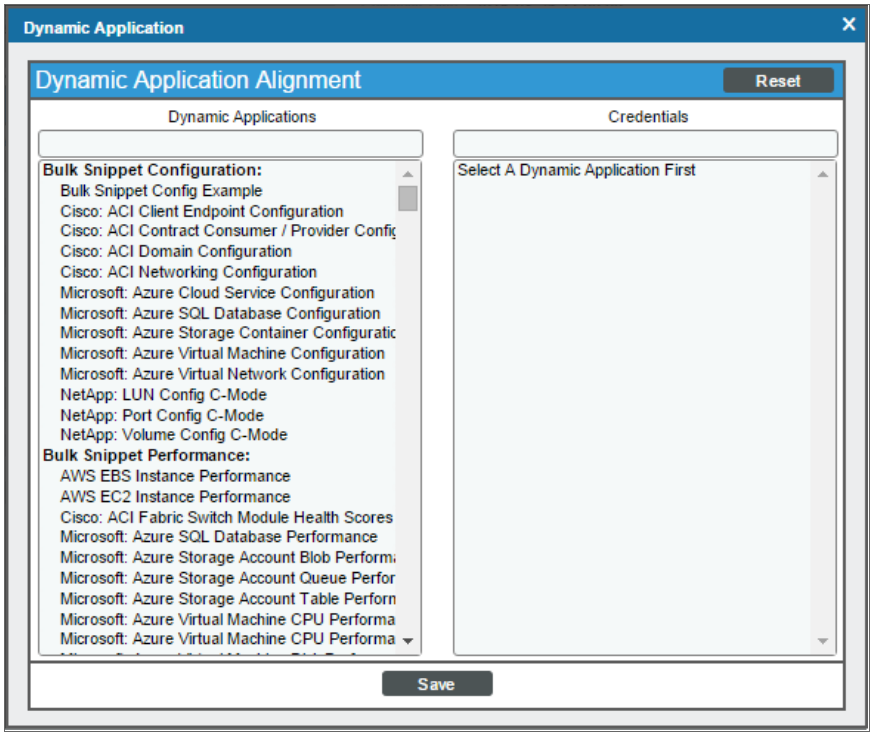


The following Dynamic Applications should be aligned to the device:

- Cisco: Cloud Center CCM Component to Physical Merge
- Cisco: Cloud Center Cluster Discovery
- Cisco: Cloud Center Root Device Reclassification

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 Basic/Snippet credential you created for Cloud Center Manager.
4. Click the **[Save]** button.
5. Repeat steps 1-4 for the other unaligned Dynamic Applications.

Discovering Multiple Tenants

The *Cisco: Cloud Center* PowerPack can be used to monitor a Cloud Center Manager that includes multiple tenants. To discover multiple tenants, you must follow the steps in the following sections for each tenant in order (in other words, parents must be discovered before their children):

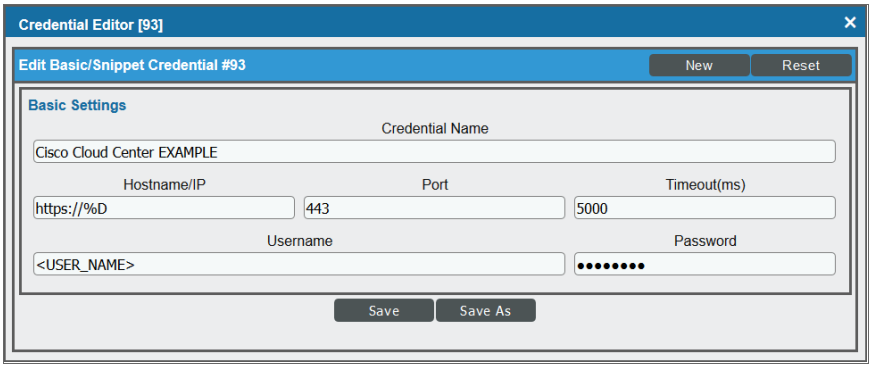
- *Creating a Credential for a Cloud Center Manager Tenant*
- *Discovering an additional Cloud Center Manager Tenant*

For each tenant, you must use the administrator account for that tenant when you create the credential.

Creating a Credential for a Cloud Center Manager Tenant

To configure a Basic/Snippet credential to access an additional Cloud Center Manager tenant:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the credential you used to discover the root tenant, then click its wrench icon ( ). The **Edit Basic/Snippet Credential** modal page appears.
3. Enter values in the following fields:



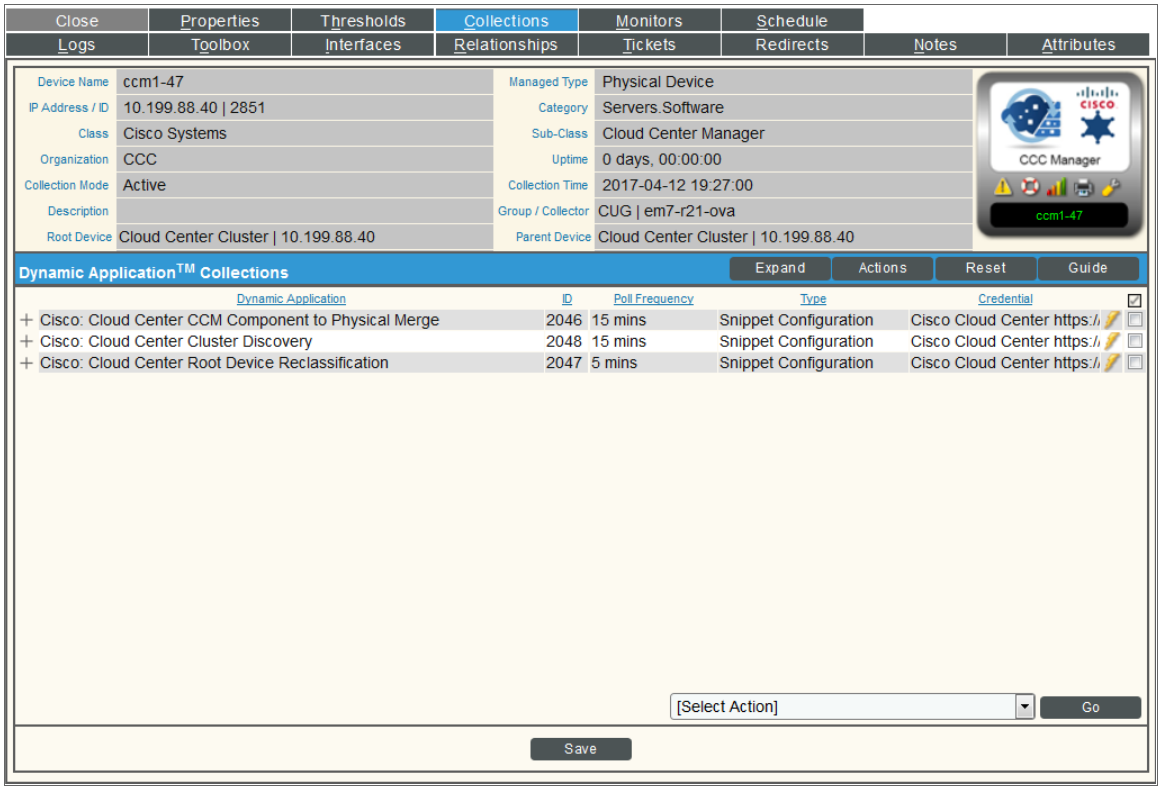
- ***Profile Name***. Enter a new name for the Cloud Center Manager tenant credential.
- ***Username***. Enter the username for a Cloud Center Manager user that is an administrator for the tenant you want to discover. This account must be an API user, not a GUI user.
- ***Password***. Enter the API key for the user you entered in the ***Username*** field.

4. Leave all other fields set to the default values. Click the **[Save As]** button.

Discovering an Additional Cloud Center Manager Tenant

To discover an additional tenant:

1. From the **Device Properties** page for the Cloud Center Manager device, click the name of the Cloud Center Cluster device that appears in the ***Root Device*** field.
2. Click the **[Collections]** tab. The **Dynamic Application Collections** page appears.



2. Select the checkbox for the Cisco: Cloud Center Tenant Discovery Dynamic Application.
3. In the Select Action drop-down list, select the credential you created for the tenant.
4. Click **[Go]**.

Relationships Between Component Devices

The ScienceLogic platform can automatically build relationships between Cloud Center component devices and other associated devices:

- If you discover a vCenter device using the Dynamic Applications in the *VMware: vSphere Base Pack* PowerPack version 207 or later, the platform will automatically create relationships between Cloud Center Applications and VMware Virtual Machines.

- If you discover an AWS account using the Dynamic Applications in the *Amazon Web Services* PowerPack version 103 or later, the platform will automatically create relationships between Cloud Center Applications and AWS EC2 Instances.
- If you discover an Azure account using the Dynamic Applications in the *Microsoft: Azure* PowerPack version 103 or later, the platform will automatically create relationships between Cloud Center Applications and Azure Virtual Machines.

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