# Monitoring Cisco Cloud Center

Beta Version

Cisco: Cloud Center PowerPack version 106

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# Chapter 1

# Introduction

## Overview

This manual describes how to monitor Cisco Cloud Center services in SL1 using the Dynamic Applications in the *Cisco: Cloud Center* PowerPack.

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



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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?

The *Cisco: Cloud Center* PowerPack enables you to discover and collect configuration and performance data about standard or high-availability Cloud Center deployments and their components. The *Cisco: Cloud Center* PowerPack can monitor Cloud Center Manager version 4.7 and later.

The *Cisco: Cloud Center* PowerPack includes:

- Sample Credentials you can use as templates to create your own Credentials to monitor Cloud Center deployments
- 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 Clusters
    - Cloud Center Manager
    - Cloud Center Load Balancers
    - Cloud Center Postgres Databases
    - Cloud Center Heath Monitor
    - Cloud Center Tenants
    - Cloud Center Application Instances
    - Cloud Center Clouds
    - Cloud Center Regions
    - Cloud Center Orchestrator
    - Cloud Center ELK components
    - RabbitMQ Servers
    - RabbitMQ Load Balancers
- Device Classes for each of the Cloud Center components that SL1 monitors
- Event Policies and corresponding alerts that are triggered when Cloud Center components meet certain status criteria

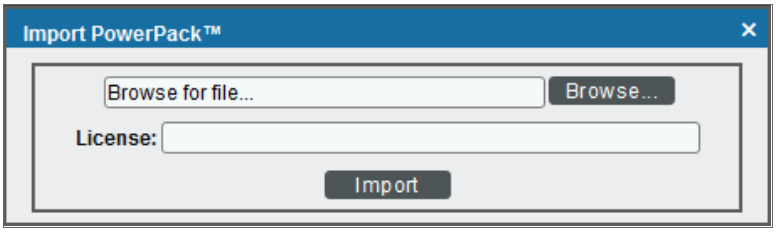
# Installing the Cisco: Cloud Center PowerPack

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

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

# Discovering Cisco Cloud Center Manager



## Overview

The following sections describe how to configure and discover a Cloud Center Manager for monitoring by SL1 using the *Cisco: Cloud Center* PowerPack:

# Configuration and Discovery for Standard Cisco Cloud Center Deployments

The *Cisco: Cloud Center* PowerPack enables you to discover and collect configuration and performance data about standard or high-availability (HA) Cloud Center deployments and their components. The following sections describe the configuration and discovery steps for monitoring standard (non-HA) Cloud Center deployments.

For information about HA deployments, see the section on *Configuration and Discovery for High-Availability Cisco Cloud Center Deployments*.

## Prerequisites for Monitoring Standard Cloud Center Deployments

To configure the SL1 system to monitor standard (non-HA) Cisco Cloud Center deployments using the *Cisco: Cloud Center* PowerPack, you must first 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 Basic/Snippet Credential for Standard Deployments

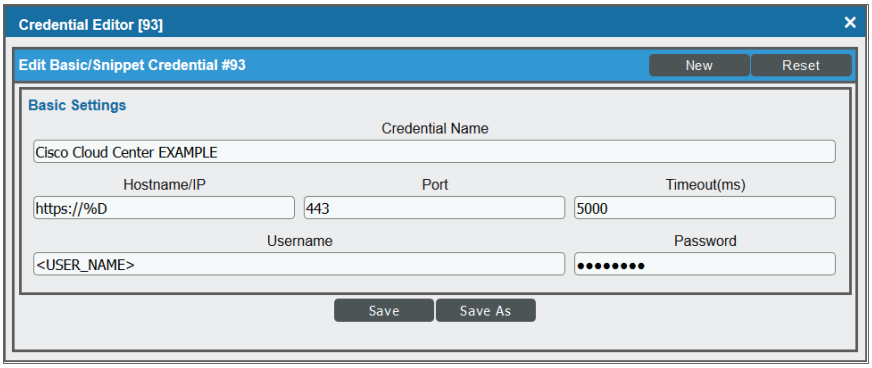
To configure SL1 to monitor a standard (non-HA) Cloud Center Manager deployment, you must first create a Basic/Snippet credential. This credential allows the Dynamic Applications in the *Cisco: Cloud Center* PowerPack to communicate with your Cloud Center Manager.

The PowerPack includes an example Basic/Snippet credential (**Cisco Cloud Center EXAMPLE**) 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***. Type a name for the Cloud Center Manager credential.
- ***Username***. Type 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***. Type the API key for the user you entered in the ***Username*** field.

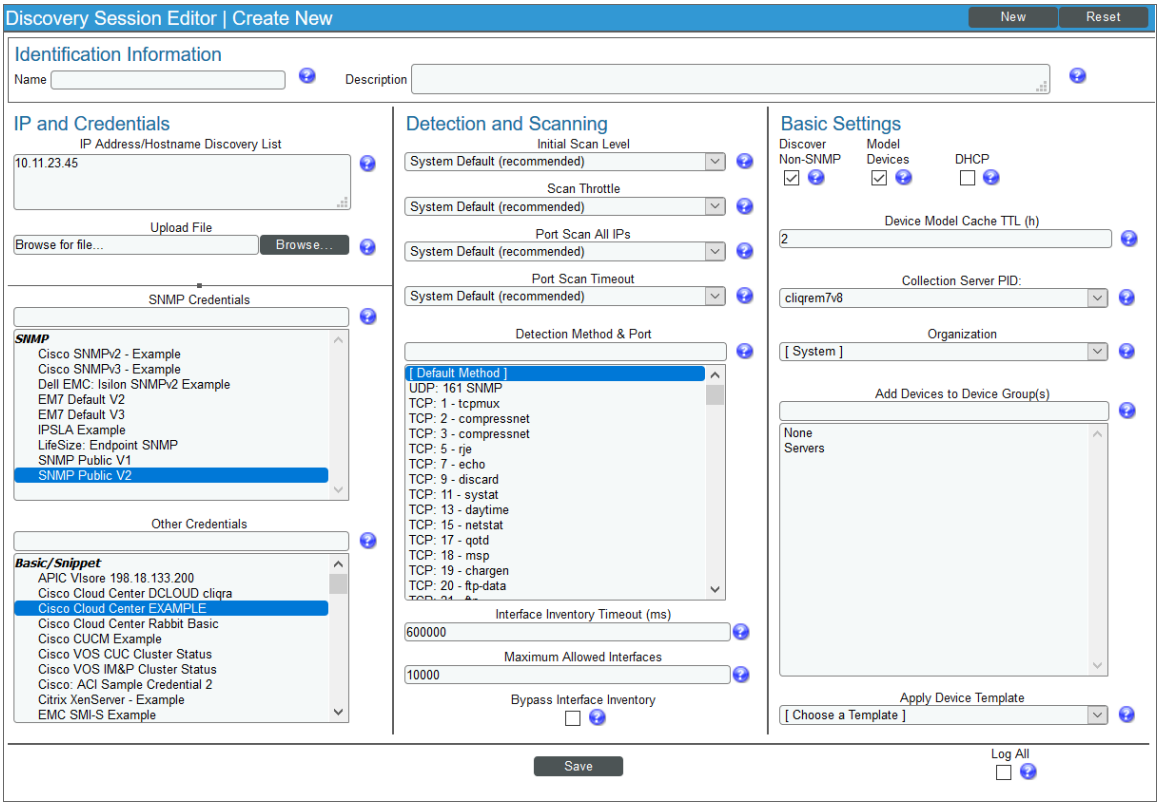
4. Leave all other fields set to the default values. Click the **[Save As]** button.

## Discovering the Cloud Center Manager Root Tenant for Standard Deployments

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.

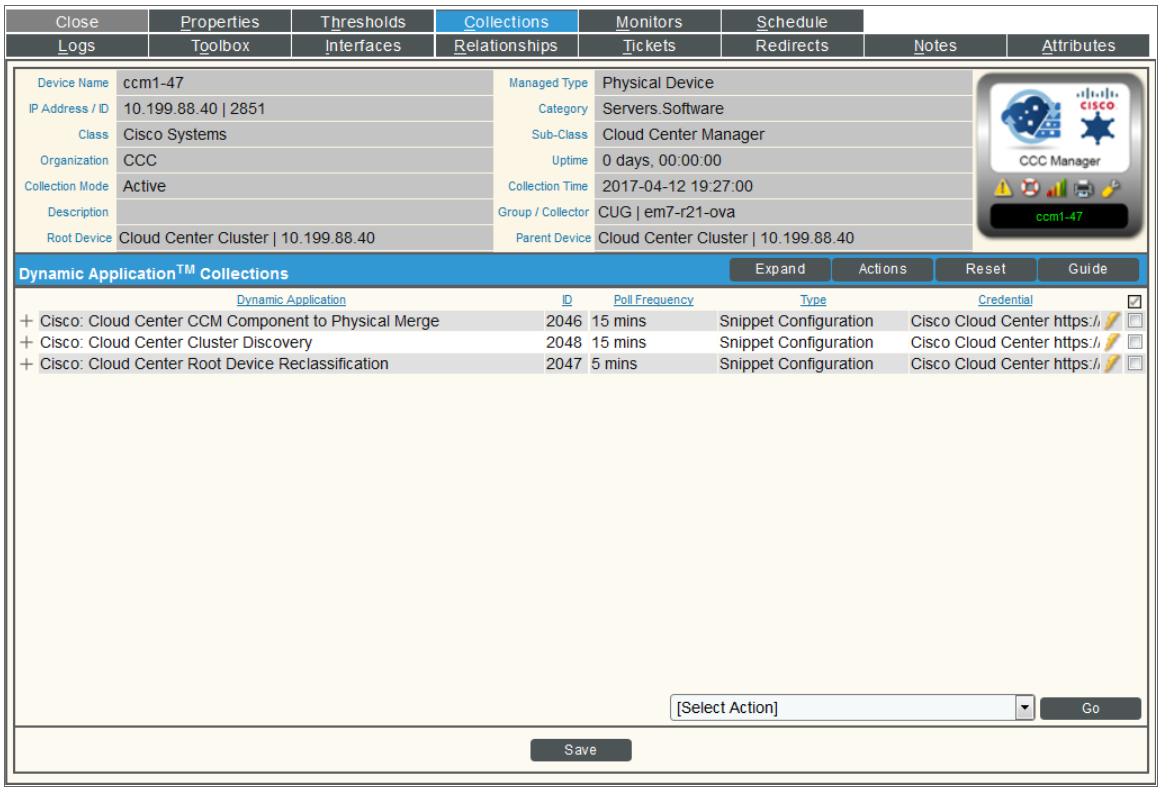
4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the ***Discovery & Credentials*** manual.
5. Click the **[Save]** button to save the discovery session and then close the **Discovery Session Editor** window.
6. The discovery 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 SL1 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.

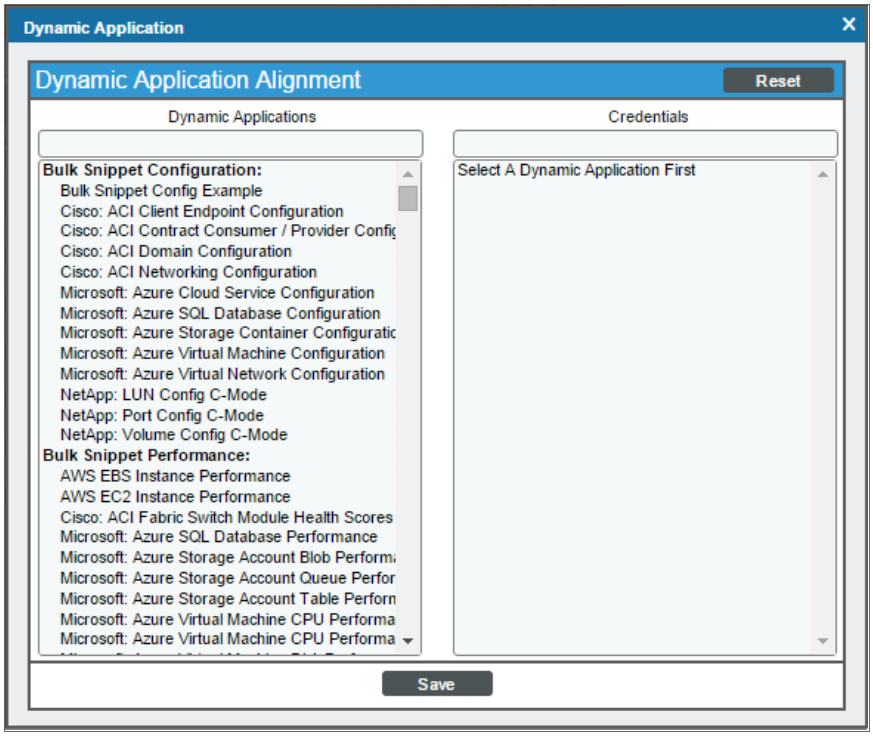



The following Dynamic Applications should be aligned to the device:

- 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 for Standard Deployments

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):

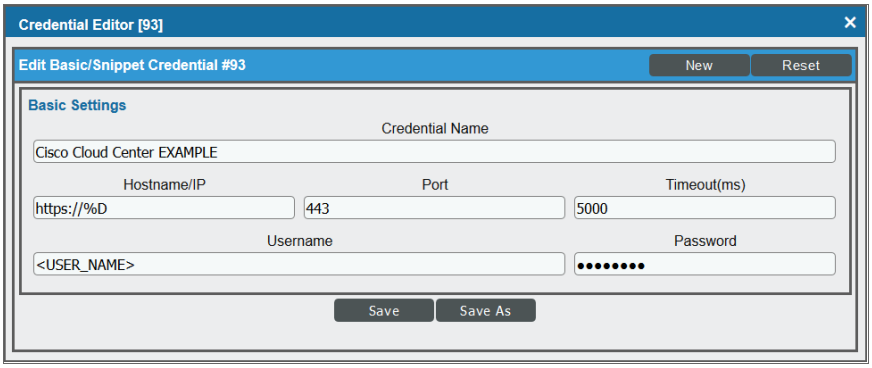
- *Creating a Credential for a Cloud Center Manager Tenant*
- *Discovering an additional Cloud Center Manager Tenant*

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:



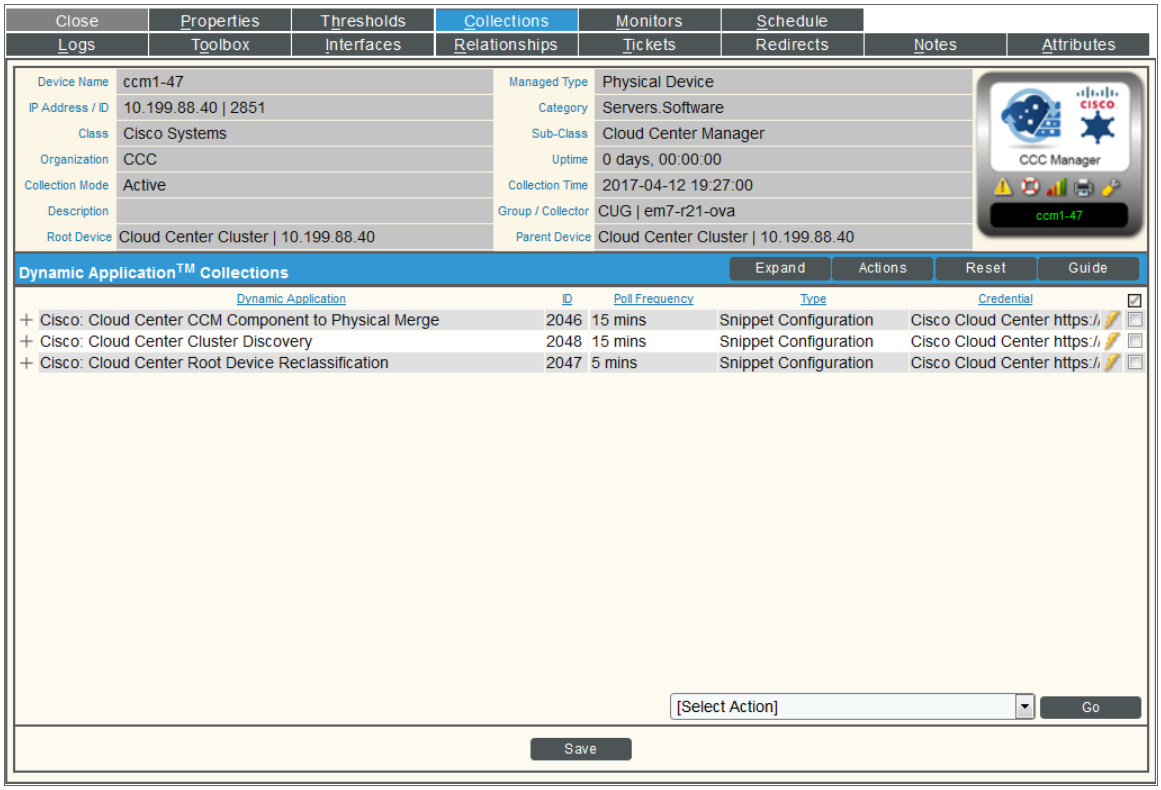

- ***Profile Name***. Enter a new name for the Cloud Center Manager tenant credential.
- ***Username***. Enter the username for a Cloud Center Manager user that is an administrator for the tenant you want to discover. This account must be an API user, not a GUI user.
- ***Password***. Enter the API key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




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

# Configuration and Discovery for High-Availability Cisco Cloud Center Deployments

The *Cisco: Cloud Center* PowerPack enables you to discover and collect configuration and performance data about standard or high-availability (HA) Cloud Center deployments and their components. The following sections describe the configuration and discovery steps for monitoring HA Cloud Center deployments.

For information about standard (non-HA) deployments, see the section on ***Configuration and Discovery for Standard Cisco Cloud Center Deployments***.



## Prerequisites for Monitoring High-Availability Cloud Center Deployments

To configure the SL1 system to monitor HA Cisco Cloud Center deployments using the *Cisco: Cloud Center* PowerPack, you must first have the following information about the Cloud Center components that you want to monitor:

- The IP address or hostname for each of the following components:
    - RabbitMQ
    - RabbitMQ Load Balancer
    - Cisco Cloud Center Manager
    - Cisco Cloud Center Manager Load Balancer
    - Cloud Center PostgreSQL database
    - Cloud Center Orchestrator
    - Cloud Center Orchestrator Load Balancer
    - Cloud Center Health Monitor
    - Cloud Center ELK components
- 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.
- The username and password for a RabbitMQ user that has read permission to the RabbitMQ API. For information about configuring users in RabbitMQ, see https://www.rabbitmq.com/management.html.
- The usernames and passwords for Cisco Cloud Center users that have API read permissions for each of the other components in the above list.

## Creating Credentials for High-Availability Deployments

To configure SL1 to monitor HA Cisco Cloud Center deployments, you must create the following credentials:

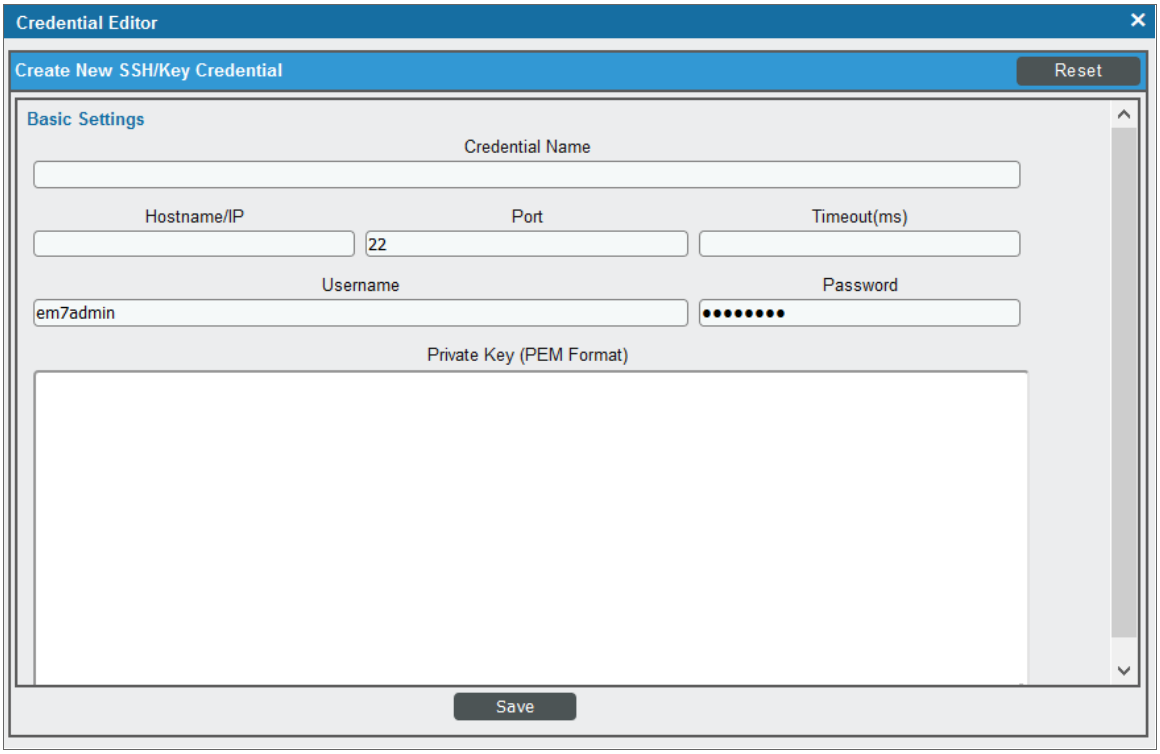
- *SSH/Key credentials for Cloud Center Components*
- *A Basic/Snippet credential for RabbitMQ*
- *A "master" SOAP/XML credential* that references the Cloud Center Manager and RabbitMQ credentials and that you will use for discovering the high-availability Cloud Center deployment

## Creating SSH/Key Credentials for Cloud Center Components

To configure SL1 to monitor HA Cisco Cloud Center deployments, you must create SSH/Key credentials that allow the Dynamic Applications in the *Cisco: Cloud Center* PowerPack to connect with the various components in your HA Cloud Center.

To create an SSH/Key credential to access a Cloud Center component:

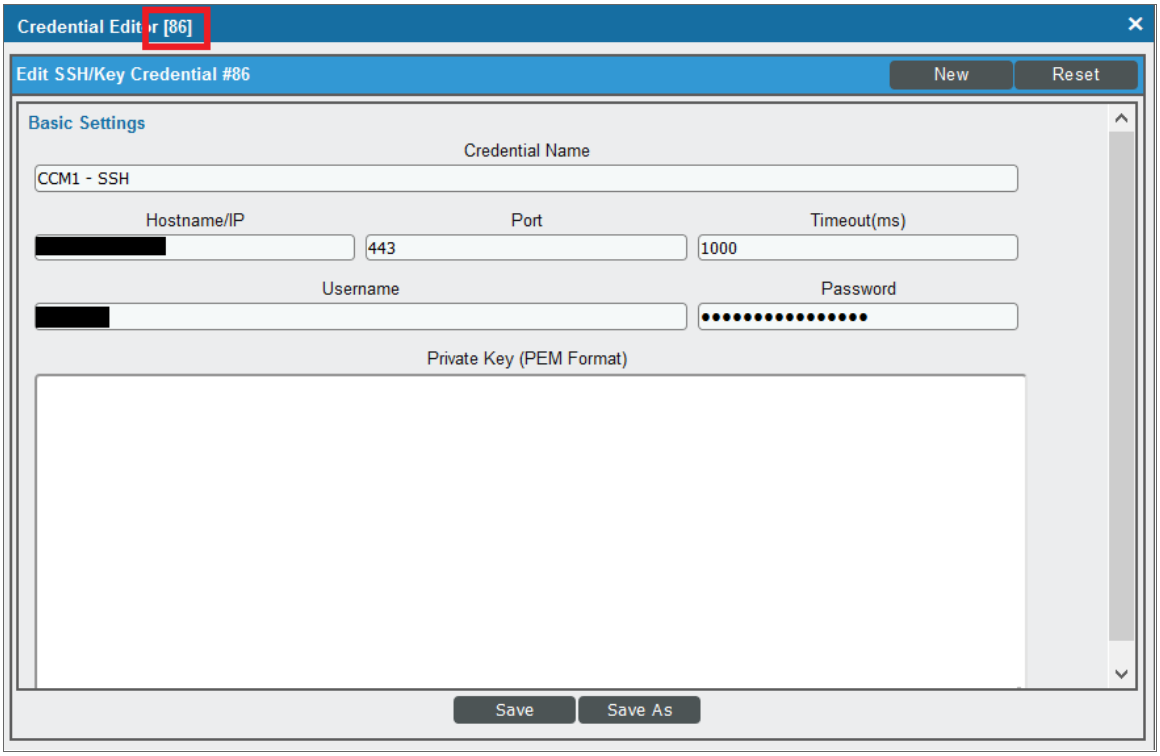
1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Click **[Actions]**, and then select *Create SSH/Key Credential*.
3. Complete the following fields:




- ***Credential Name***. Type a name for the credential.
- ***Hostname/IP***. Type the IP address for the component. **Do not use "%D".**
- ***Port***. Type the port number required to access the component.
- ***Timeout(ms)***. Type the time, in milliseconds, after which SL1 will stop trying to communicate with the component.

- ***Username***. Type the username for a user that has root tenant administration privileges for Cloud Center Manager, or read privileges for other components. This account must be an API user, not a GUI user.
- ***Password***. Type the API key for the user you entered in the ***Username*** field.
- ***Private Key (PEM Format)***. Leave this field blank.

4. Click **[Save]**.
5. SL1 assigns the credential an ID number. Take note of the ID number that appears in the Credential Editor heading, as you will need this when *creating the master SOAP/XML credential*.




6. Repeat these steps for each major component in your HA Cloud Center deployment.

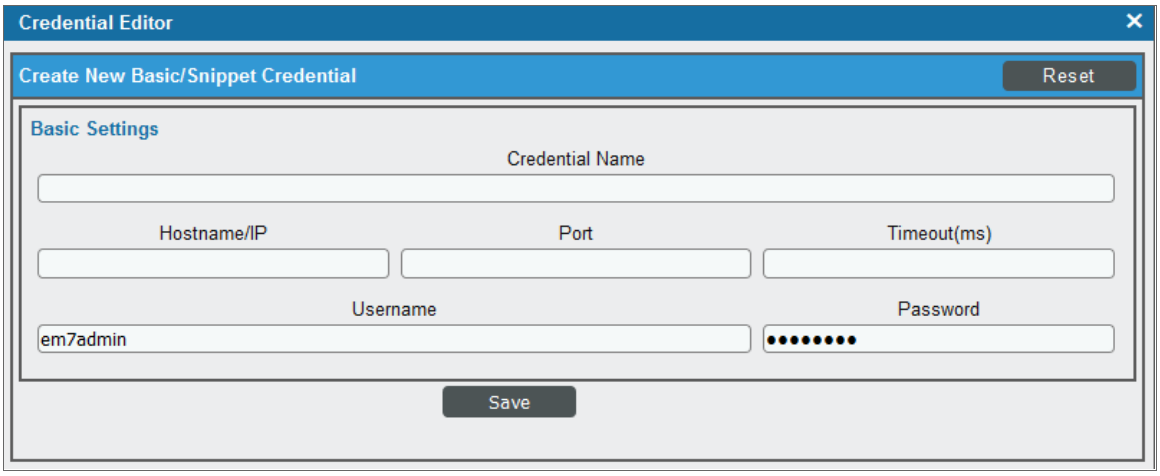
## Creating a Basic/Snippet Credential for RabbitMQ

In addition to an SSH/Key credential that allows the Dynamic Applications in the *Cisco: Cloud Center* PowerPack to communicate with your RabbitMQ system, you must also create a Basic/Snippet credential for RabbitMQ. When you discover your HA Cloud Center deployment, these Dynamic Applications will discover and model the Cloud Center RabbitMQ components. These components will later be merged with the physical devices once they are discovered.

**NOTE:** When monitoring a high-availability Cloud Center deployment, the use of Basic/Snippet credentials will cause RabbitMQ Dynamic Applications to align to RabbitMQ devices, but those Dynamic Applications will not collect data. This is because SL1 discovers the RabbitMQ load balancer devices as the RabbitMQ components, rather than the actual RabbitMQ components themselves. This means that, even if you manually discover the RabbitMQ components, the *Cisco: Cloud Center* PowerPack has no way of linking them with the load balancers. If you would like to collect data for the non-load balancer RabbitMQ components, you can manually align the appropriate credentials.

To create a Basic/Snippet credential to access a RabbitMQ system:

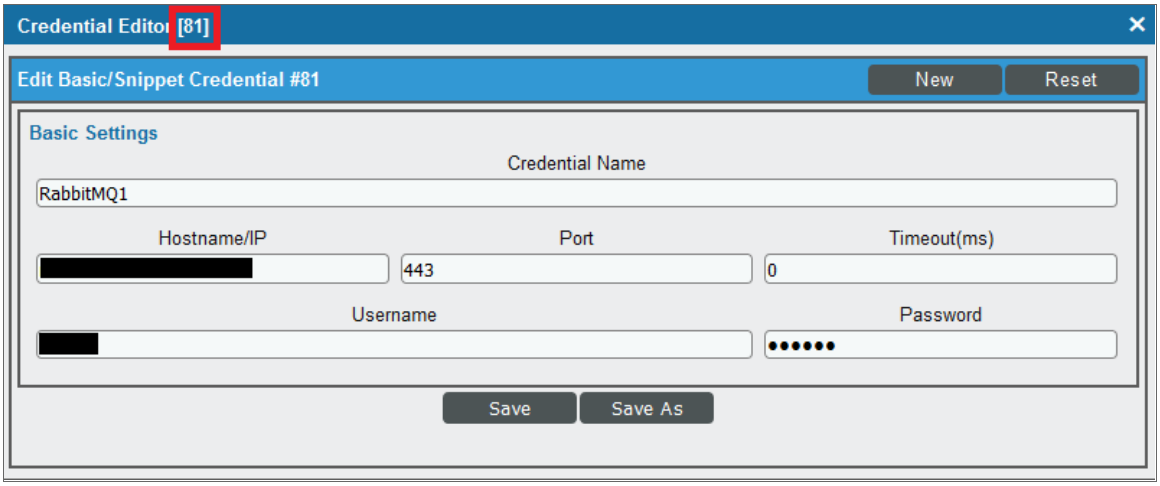
1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Click **[Actions]**, and then select *Create Basic/Snippet Credential*.
3. Complete the following fields:




- ***Profile Name***. Type a name for the RabbitMQ credential.
- ***Hostname/IP***. Type the hostname or IP address for the RabbitMQ server.
- ***Port***. Type the port number required to access the RabbitMQ server.
- ***Timeout(ms)***.Type the time, in milliseconds, after which SL1 will stop trying to communicate with the RabbitMQ server.
- ***Username***. Type the username for a RabbitMQ user that has read permission to the RabbitMQ API.
- ***Password***. Type the password for the user you entered in the ***Username*** field.

4. Click **[Save]**.

5. SL1 assigns the credential an ID number. Take note of the ID number that appears in the Credential Editor heading, as you will need this when *creating the master SOAP/XML credential*.




## Creating the Master SOAP/XML Credential for High-Availability Discovery

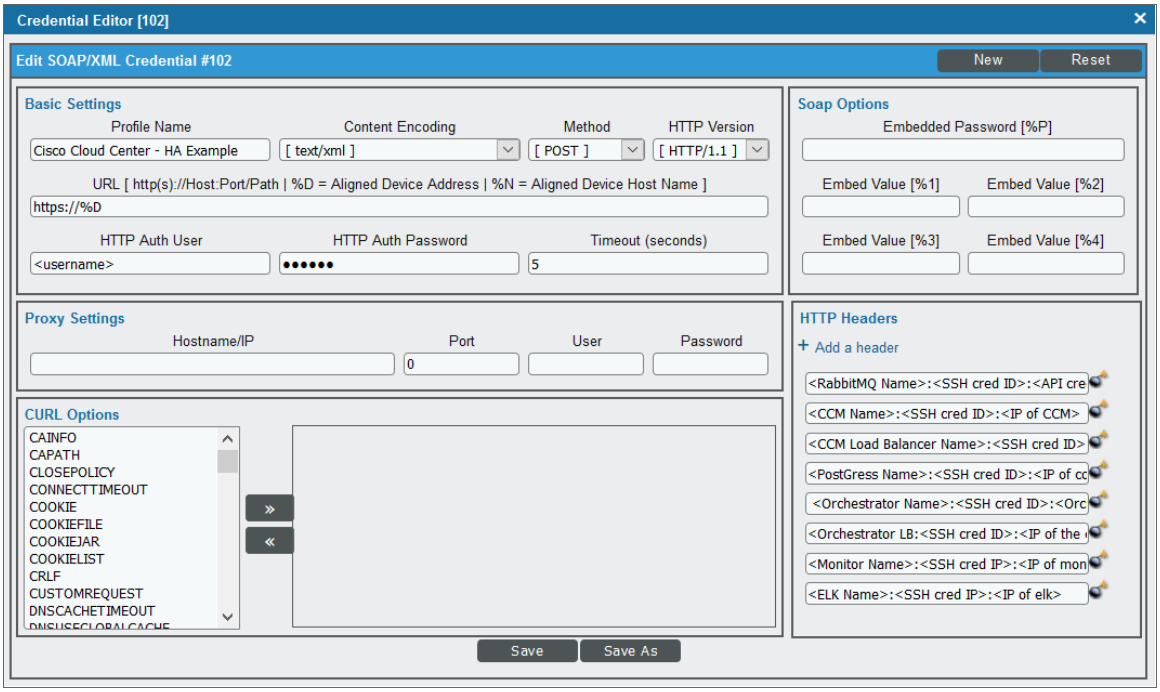
After you have created the *SSH/Key* and *Basic/Snippet* credentials for the various components in your HA Cloud Center, you must create the SOAP/XML credential that will be used as the master credential to discover and model your HA Cloud Center deployment.

A sample credential (**Cisco Cloud Center - HA Example**) that you can use is included in the *Cisco: Cloud Center* PowerPack.

To create a SOAP/XML credential for discovering HA Cisco Cloud Center deployments:

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

2. Locate the **Cisco Cloud Center - HA Example** credential and then click its wrench icon (). The **Edit SOAP/XML Credential** modal page appears:




3. Complete the following fields:

## Basic Settings

- ***Profile Name***. Type a new name for the credential.
- ***HTTP Auth User***. Type 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.
- ***HTTP Auth Password***. Type the API key for the user you entered in the ***HTTP Auth User*** field.

## HTTP Headers

- ***HTTP Headers***. Type the following information for each of the Cloud Center components, creating a separate header for each component:
    - **RabbitMQ**: Type the header in the following format:

      <Component Name>:<SSH/Key Credential ID>:<Basic/Snippet Credential ID>:<RabbitMQ IP address>:<RabbitMQ Load Balancer IP Address>

      ***Example:*** If the RabbitMQ has an SSH/Key credential with the ID 60, a Basic/Snippet Credential with the ID 70, an IP address of 10.123.34.45, and a load balancer IP address of 10.22.33.45, then you would type "RabbitMQ:60:70:10.123.34.45:10.22.33.45".

- **Cloud Center Manager**: Type the header in the following format:

  <Component Name>:<SSH/Key Credential ID>:<IP address>

  ***Example:*** If the Cloud Center Manager has an SSH/Key credential with the ID 80 and an IP address of 10.11.23.45, then you would type "CCM:80:10.11.23.45".

- **Cloud Center Manager Load Balancer**: Type the header in the following format:

  <Component Name>:<SSH/Key Credential ID>:<IP address>

  ***Example:*** If the Cloud Center Manager Load Balancer has an SSH/Key credential with the ID 90 and an IP address of 10.22.12.34, then you would type "CCMLB:90:10.22.12.34".

- **PostgreSQL Database**: Type the header in the following format:

  <Component Name>:<SSH/Key Credential ID>:<IP address>

  ***Example:*** If the PostgreSQL database has an SSH/Key credential with the ID 105 and an IP address of 10.32.54.76, then you would type "PostgreSQL:105:10.32.54.76".

- **Cloud Center Orchestrator**: Type the header in the following format:

  <Component Name>:<SSH/Key Credential ID>:<Orchestrator IP address>:<Orchestrator Load Balancer IP Address>

  ***Example:*** If the Cloud Center Orchestrator has an SSH/Key credential with the ID 120, an IP address of 10.33.22.11, and a load balancer IP address of 10.99.88.77, then you would type "CCO:120:10.33.22.11:10.99.88.77".

- **Cloud Center Orchestrator Load Balancer**: Type the header in the following format:

  <Component Name>:<SSH/Key Credential ID>:<IP address>

  ***Example:*** If the Cloud Center Orchestrator Load Balancer has an SSH/Key credential with the ID 120 and an IP address of 10.99.88.77, then you would type "CCOLB:120:10.99.88.77".

- **Cloud Center Health Monitor**: Type the header in the following format:

  <Component Name>:<SSH/Key Credential ID>:<IP address>

  ***Example:*** If the Health Monitor has an SSH/Key credential with the ID 135 and an IP address of 10.56.77.89, then you would type "Monitor:135:10.56.77.89".

- **Cloud Center ELK Components**: Type the header in the following format:

  <ELK Name>:<SSH/Key Credential ID>:<IP address>

  ***Example:*** If the ELK component has an SSH/Key credential with the ID 85 and an IP address of 10.13.24.57, then you would type "ELK:85:10.13.24.57".

**NOTE:** If you have more than one of the same component, then you can add numbers to the component name. For example: "CCM1", "CCM2", etc.

**NOTE:** Component names for load balancers must include "LB".

**NOTE:** If any of your components use a hostname instead of an IP address, you should include the hostname in place of the IP address.

**CAUTION:** The IP address or hostname used in the header for a given component must match the IP address or hostname in the discovery payload. If any of the headers for any of the components are incorrect, SL1 will be unable to discover and model your HA Cloud Center deployment.

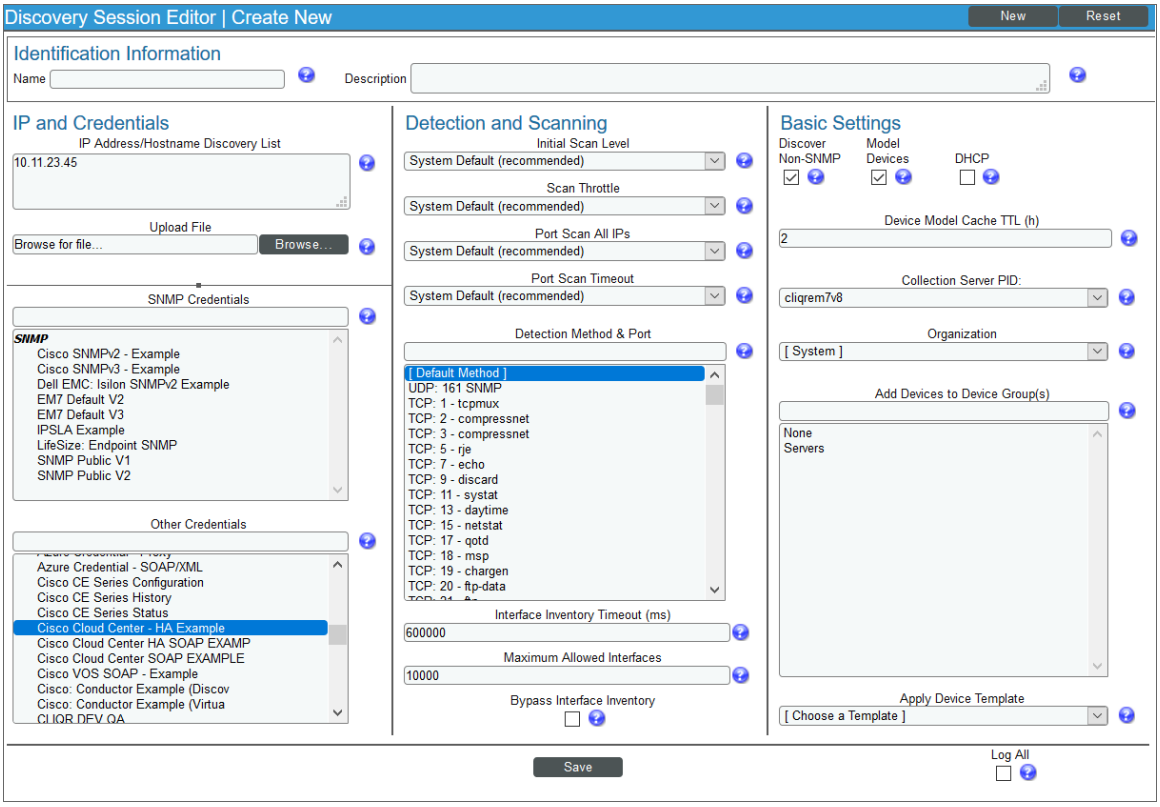
4. For all other fields, use the default values.
5. Click **[Save As]**.
6. In the confirmation message, click **[OK]**.

## Discovering Cisco Cloud Center High-Availability Deployments

To discover a Cisco Cloud Center HA deployment:

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:




- ***Name***. Type a name for the discovery session.
- ***IP Address/Hostname Discovery List***. Type the IP address for the Cloud Center Manager.
- ***Other Credentials***. Select the *SOAP/XML credential* you created for the HA Cloud Center deployment.
- ***Discover Non-SNMP***. Select this checkbox.

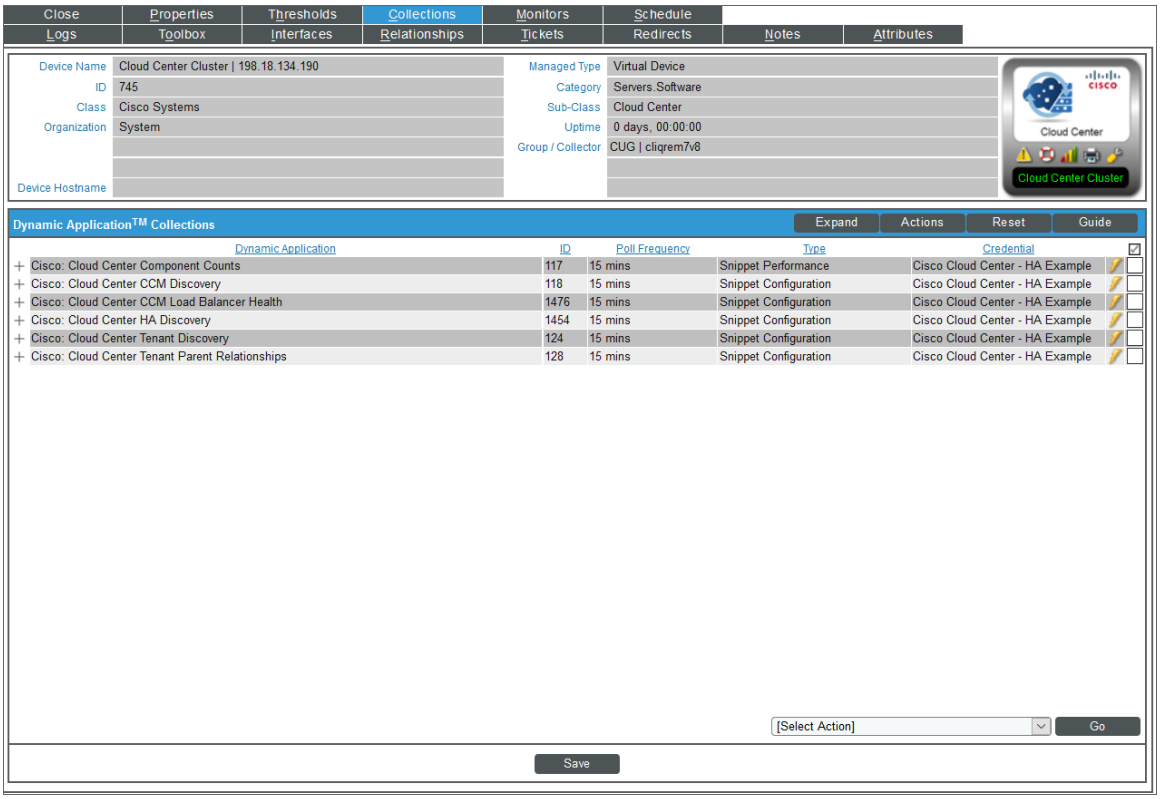
4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the ***Discovery & Credentials*** manual.
5. Click the **[Save]** button to save the discovery session and then close the **Discovery Session Editor** window.
6. The discovery 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 SL1 automatically aligned the correct Dynamic Applications during discovery:

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

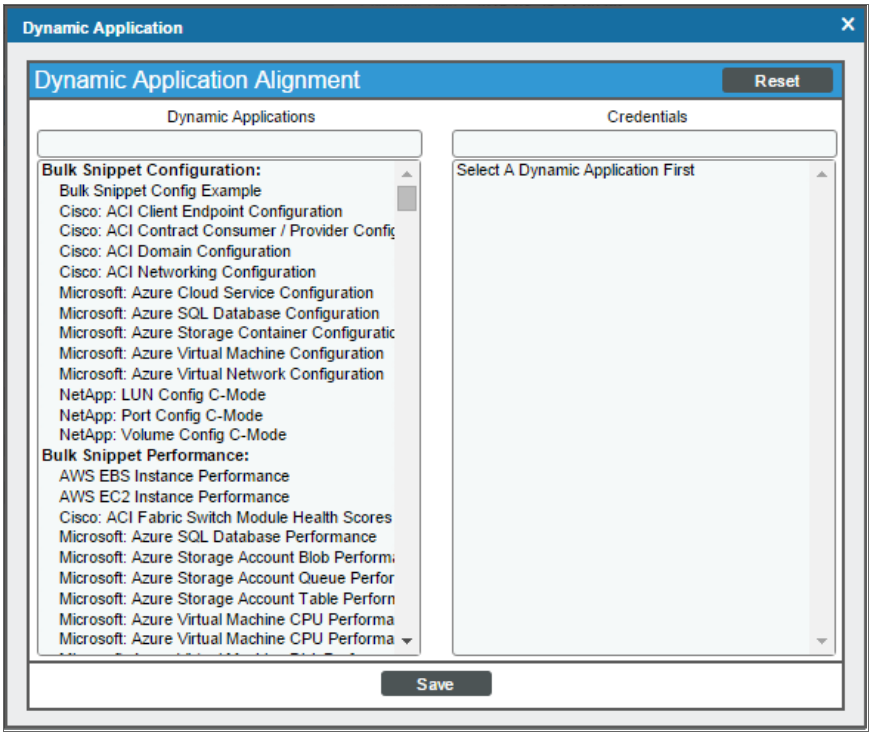



The following Dynamic Applications should be aligned to the device:

- Cisco: Cloud Center Component Counts
- Cisco: Cloud Center CCM Discovery
- Cisco: Cloud Center CCM Load Balancer Health
- Cisco: Cloud Center HA Discovery
- Cisco: Cloud Center Tenant Discovery
- Cisco: Cloud Center Tenant Parent Relationships

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

## Discovering Multiple Tenants for High-Availability Cloud Center Deployments

The *Cisco: Cloud Center* PowerPack can be used to monitor an HA Cloud Center deployment 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):

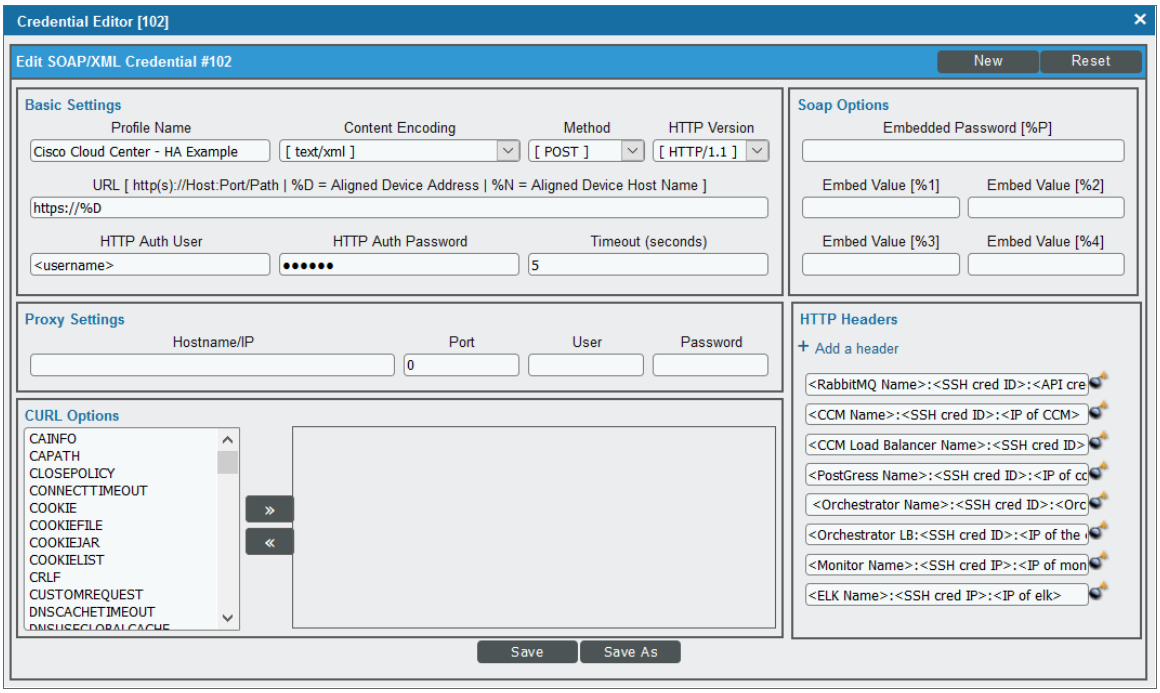
- *Creating a Credential for an HA Cloud Center Manager Tenant*
- *Discovering an additional HA Cloud Center Manager Tenant*

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

## Creating a Credential for a High-Availability Cloud Center Tenant

To configure a SOAP/XML credential to access an additional HA Cloud Center tenant:

1. Create any additional *SSH/Key* and *Basic/Snippet* credentials that you might need to reference in the SOAP/XML credential headers.
2. Go to the **Credential Management** page (System > Manage > Credentials).
3. Locate the credential you used to discover the root device for your HA deployment, and then click its wrench icon (). The **Edit SOAP/XML Credential** modal page appears.
4. Enter values in the following fields:



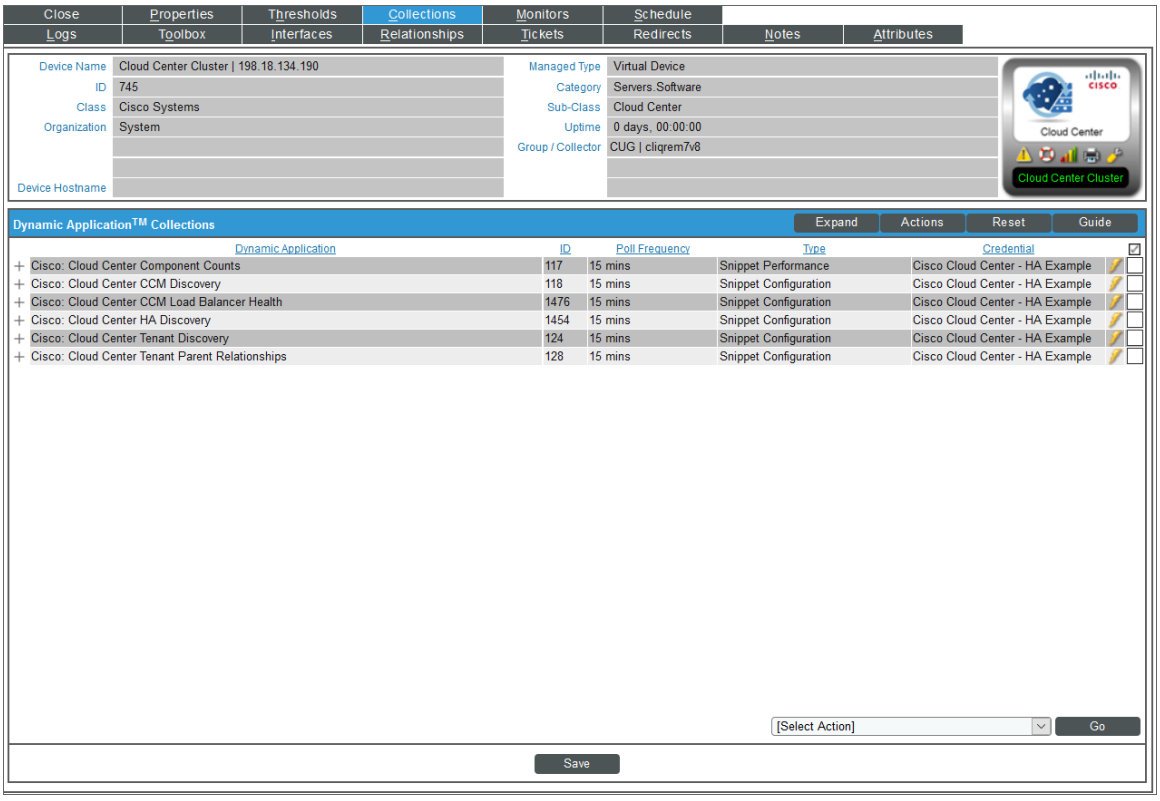

   - ***Profile Name***. Enter a new name for the credential.
   - For all other fields, follow the instructions described in the *Creating a SOAP/XML Credential for High-Availability Discovery* section.

5. Click the **[Save As]** button.

## Discovering an Additional High-Availability Cloud Center Tenant

To discover an additional tenant:

1. From the **Device Properties** page for the Cloud Center HA root device, click the **[Collections]** tab. The **Dynamic Application Collections** page appears:

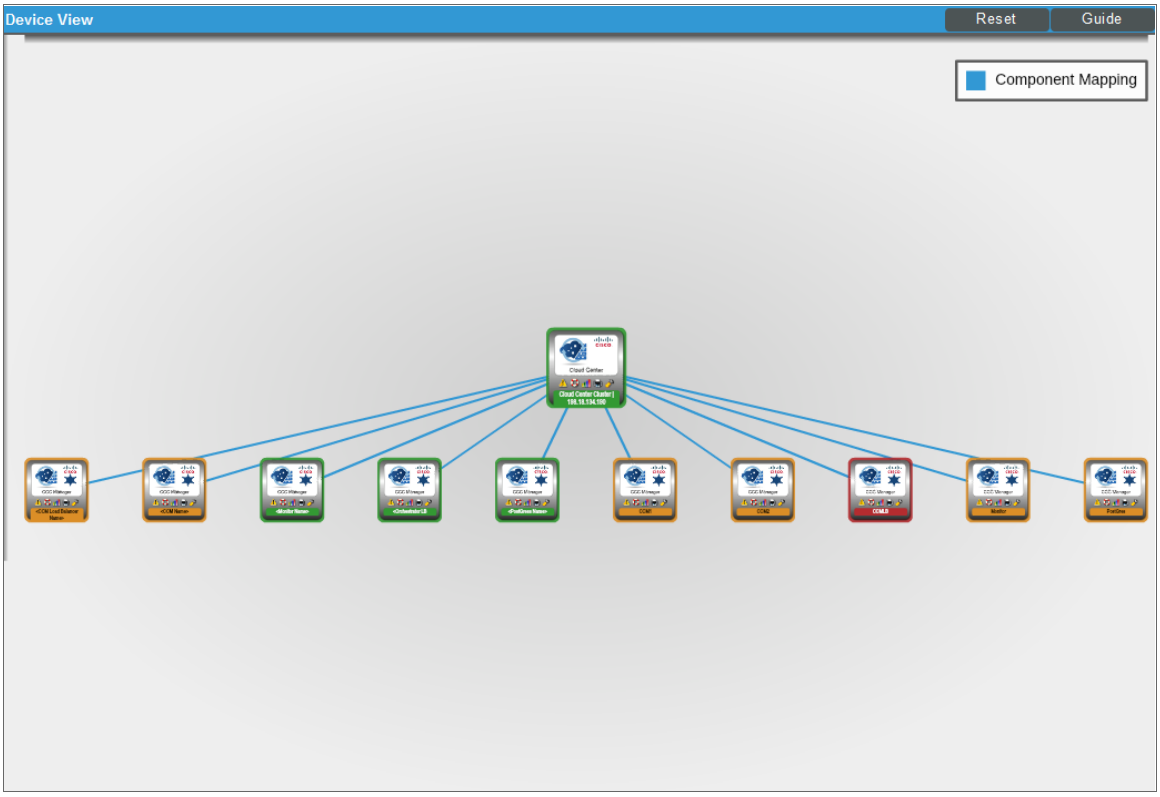



2. Select the checkbox for the "Cisco: Cloud Center Tenant Discovery" Dynamic Application.
3. In the ***Select Action*** drop-down list, select the SOAP/XML credential you created for the tenant.
4. Click **[Go]**.

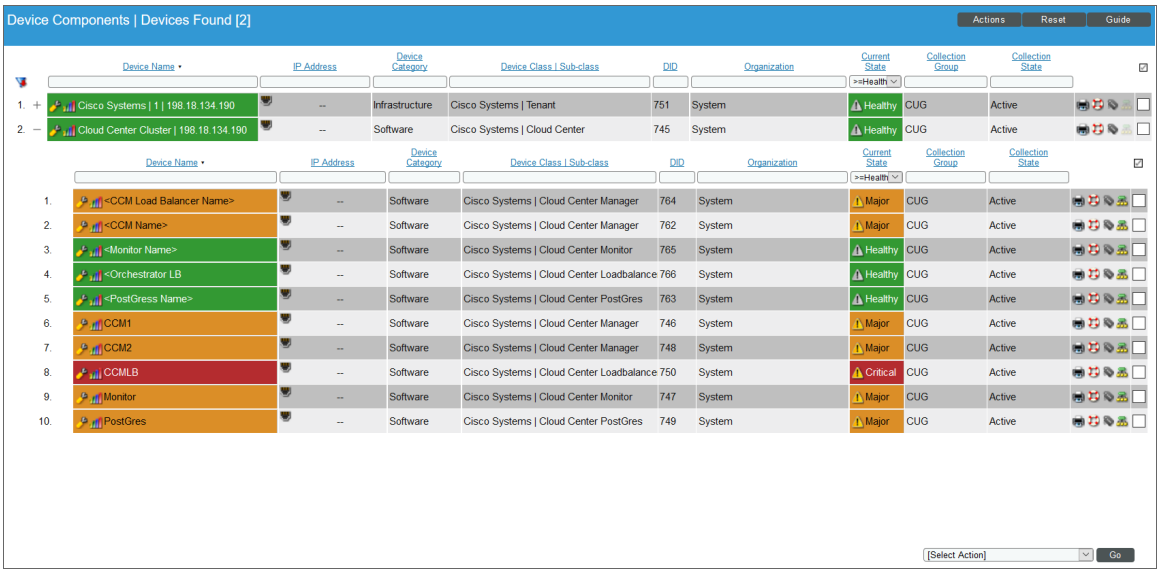
# Viewing Cloud Center Component Devices

In addition to the **Device Manager** page (Registry > Devices > Device Manager), you can view Cloud Center component devices in the following places in the user interface:

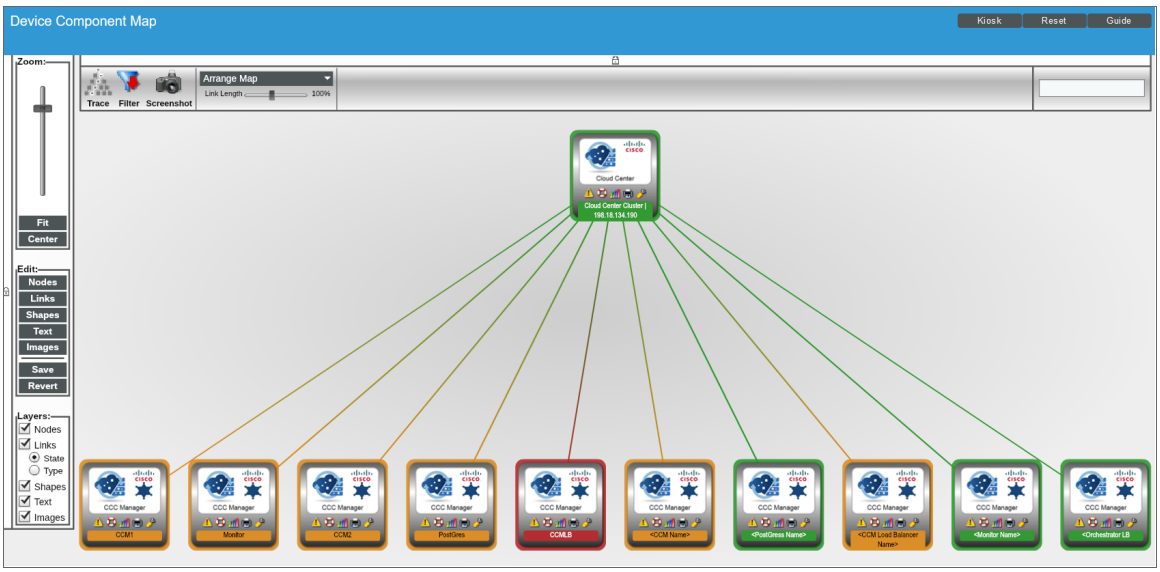
- The **Device View** modal page displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:



- The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by SL1 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 Cloud Center, find the Cloud Center root 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. SL1 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 Cloud Center, 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.

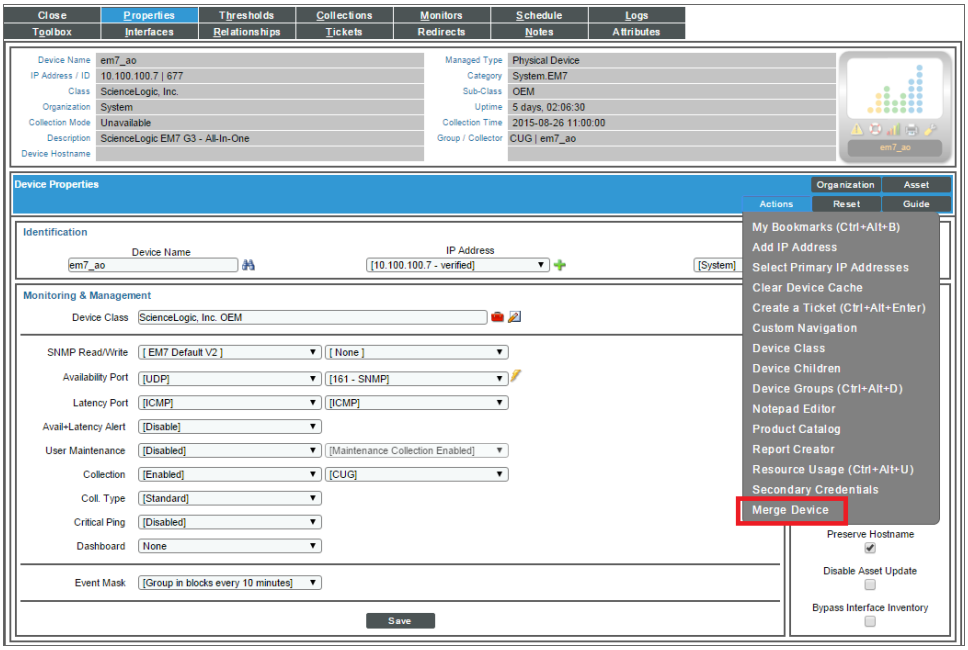


# Merging RabbitMQ and Cloud Center Orchestrator Devices

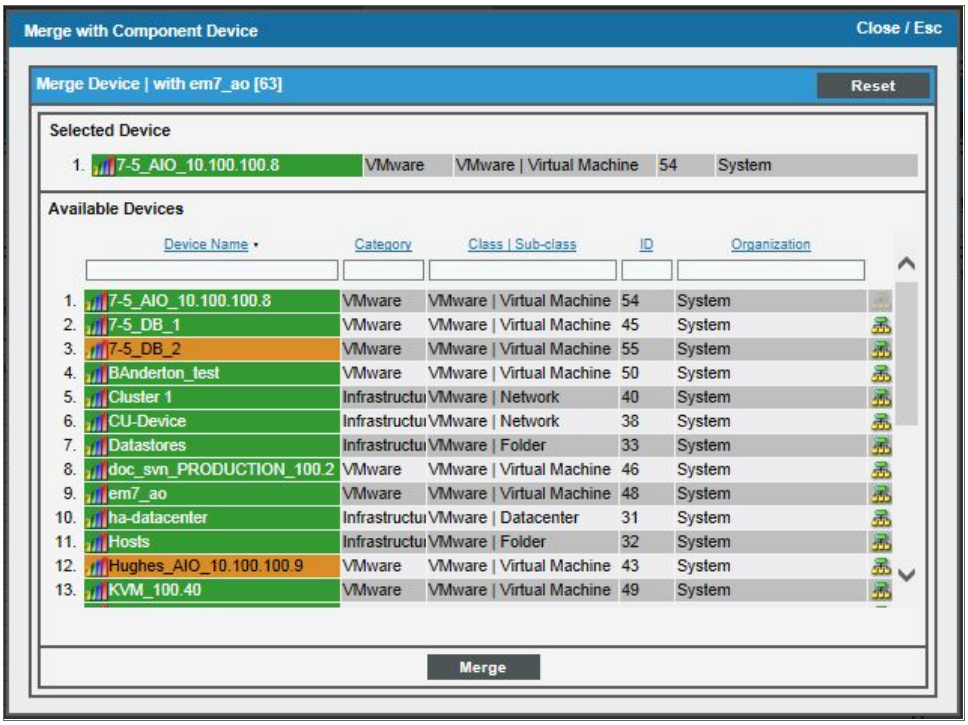
The Dynamic Applications in the *Cisco: Cloud Center* PowerPack create component devices for the RabbitMQ system and Cloud Center Orchestrator. Optionally, you can discover these devices as physical SNMP devices and merge the component device record and physical device record. For information about discovering and monitoring a RabbitMQ system, see the ***Monitoring RabbitMQ Systems*** manual.

To merge individual devices:

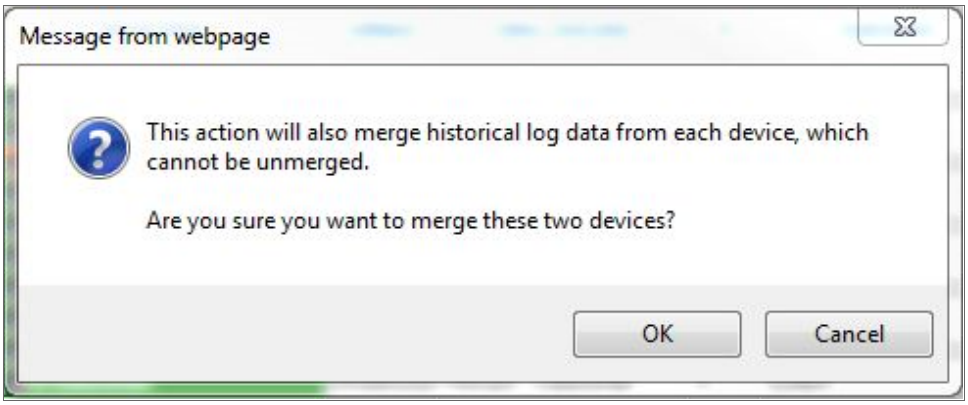
1. Go to the **Device Manager** page (Devices > Device Manager).
2. Click the wrench icon ( ) for the physical device that you want to merge with a component device.
3. On the **Device Properties** page, click the **[Actions]** menu and then select *Merge Device*.




4. A list of component devices that are available for merging with the physical device displays. Click the merge icon ( ) for the component device you want to merge with the physical device. Information for the component device then displays in the **Selected Device** panel.




5. Click the **[Merge]** button. A pop-up message appears that asks you to confirm the merge.




6. Click the **[OK]** button.

**NOTE:** To view an updated list of devices that includes your merged devices, click the **[Reset]** button on the **Device Manager** page.

# Relationships Between Component Devices

SL1 can automatically build relationships between Cloud Center component devices and other associated devices:

- If you discover an ACI system using the Dynamic Applications in the *Cisco: ACI* PowerPack version 106 or later, SL1 will automatically create relationships between Cloud Center Applications and ACI Application Network Profiles.
- If you discover an AWS account using the Dynamic Applications in the *Amazon Web Services* PowerPack version 103 or later, SL1 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, SL1 will automatically create relationships between Cloud Center Applications and Azure Virtual Machines.
- If you discover a vCenter device using the Dynamic Applications in the *VMware: vSphere Base Pack* PowerPack version 207 or later, SL1 will automatically create relationships between Cloud Center Applications and VMware Virtual Machines.

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