Monitoring Cisco Unified Computing System (UCS) Director

Cisco: UCS Director PowerPack version 105

Table of Contents

Introduction 3

What Does the Cisco: UCS Director PowerPack Monitor? 3

Installing the Cisco: UCS Director PowerPack 4

Configuration and Discovery 5

Copying the REST API Access Key for a UCS Director Account 6

Configuring a UCS Director Credential 7

Configuring a UCS Director Credential in the SL1 Classic User Interface 8

Discovering UCS Director 9

Discovery UCS Director Devices in the SL1 Classic User Interface 11

Viewing UCS Director Component Devices 12

Chapter 1

Introduction

Overview

This manual describes how to monitor Cisco UCS Director devices in SL1 using the Dynamic Application in the "Cisco: UCS Director" PowerPack.

This chapter covers the following topics:

What Does the Cisco: UCS Director PowerPack Monitor? 3

Installing the Cisco: UCS Director PowerPack 4

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What Does the Cisco: UCS Director PowerPack Monitor?

The Dynamic Applications in the "Cisco: UCS Director" PowerPack can monitor performance metrics and/or collect configuration data for the following UCS Director components:

- ACI Applications
- ACI Tenants
- Application Containers
- Cloud Services

- Pods
- Servers
- Sites

Installing the Cisco: UCS Director PowerPack

Before completing the steps to this manual, you must import and install the latest version of the "Cisco: UCS Director" 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 SL1, see the relevant *SL1 Platform Release Notes*.

To download and install the PowerPack:

1. Search for and download the PowerPack from the **PowerPacks** page (Product Downloads > PowerPacks & SyncPacks) at the ScienceLogic Support Site.
2. In SL1, 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

Use the following menu options to navigate the SL1 user interface:

- To view a pop-out list of menu options, click the menu icon ( ).
- To view a page containing all of the menu options, click the Advanced menu icon ( ).

The following sections describe how to configure and discover Cisco UCS Director devices for monitoring by SL1 using the "Cisco: UCS Director" PowerPack:

This chapter covers the following topics:

Copying the REST API Access Key for a UCS Director Account 6

Configuring a UCS Director Credential 7

Discovering UCS Director 9

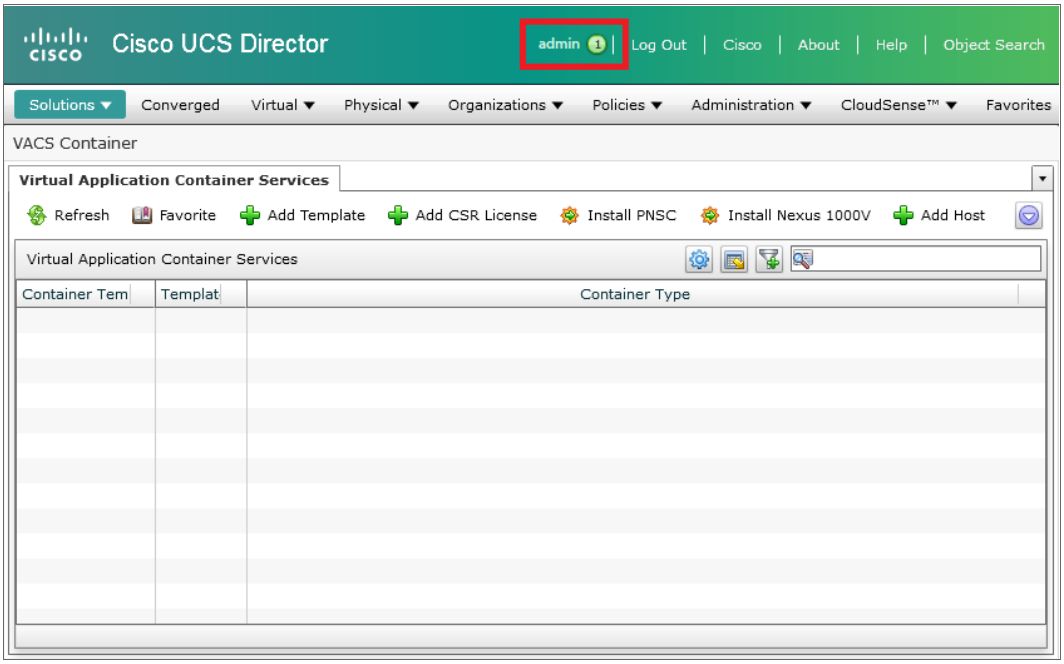
Viewing UCS Director Component Devices 12

Copying the REST API Access Key for a UCS Director Account

When *configuring the Basic/Snippet credential* that SL1 uses to discover and monitor UCS Director, you must include the REST API Access Key for a UCS Director administrator user account as the credential password.

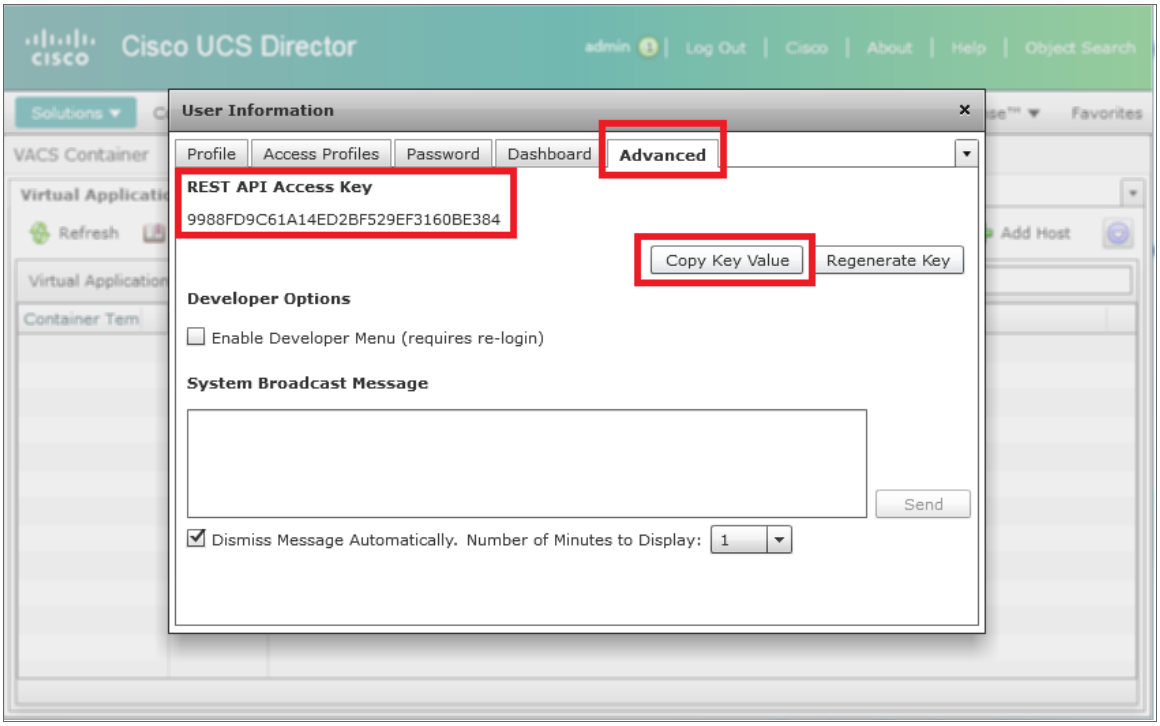
To locate and copy the REST API Access Key:

1. Log in to UCS Director as an administrator, and then click the username at the top of the page.



2. The **User Information** modal page appears. Click the **[Advanced]** tab.

3. Click the **[Copy Key Value]** button to copy the REST API Access Key.

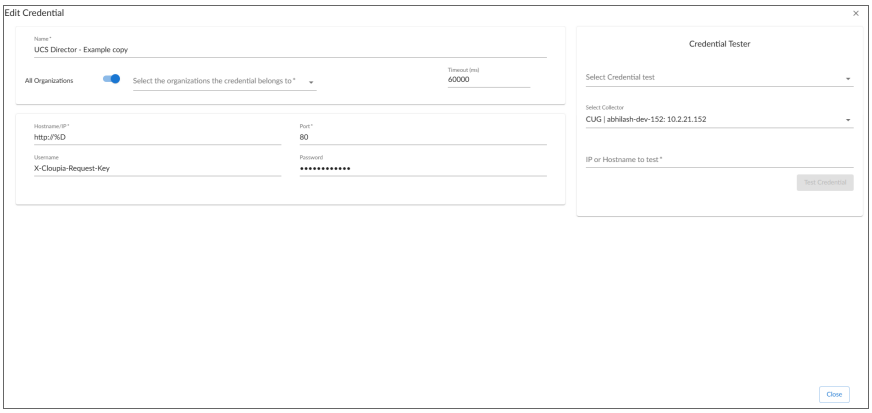


Configuring a UCS Director Credential

To configure SL1 to monitor UCS Director, you must first create a Basic/Snippet credential. This credential allows the Dynamic Applications in the "Cisco: UCS Director" PowerPack to connect with a UCS Director server. An example Basic/Snippet credential that you can edit for your own use is included in the "Cisco: UCS Director" PowerPack.

To create a Basic/Snippet credential:

1. Go to the **Credentials** page (Manage > Credentials).
2. Locate the "UCS Director - Example" credential, then click its **[Actions]** icon (⋮) and select *Duplicate* from the drop-down field. The "UCS Director - Example copy" credential appears.
3. Click the **[Action]** icon (⋮) for the "UCS Director - Example copy" credential, then select *Edit*. The **Edit Credential** page appears.



4. Enter values in the following fields:
    - ***Name***. Enter a new name for the credential. This field is required.
    - ***All Organizations***. Toggle on (blue) to align the credential to all organizations, or toggle off (gray) and then select one or more specific organizations from the ***Select the organizations the credential belongs to*** drop-down field to align the credential with those specific organizations.
    - ***Timeout***. Enter the time, in milliseconds, after which SL1 will stop trying to communicate with the UCS Director device. The default value is *60000*. This field is required.
    - ***Hostname/IP***. Type "http://%D:22"
    - ***Port***. Type "80".
    - ***Username***. Keep the default.
    - ***Password***. Enter the REST API Access Key that you located inthe section *Copying the REST API Access Key for a UCS Director Account*.
5. Click **[Save & Close]**.

Configuring a UCS Director Credential in the SL1 Classic User Interface

To configure SL1 to monitor UCS Director in the classic user interface, you must first create a Basic/Snippet credential. This credential allows the Dynamic Applications in the "Cisco: UCS Director" PowerPack to connect with a UCS Director server. An example Basic/Snippet credential that you can edit for your own use is included in the "Cisco: UCS Director" PowerPack.

To create a Basic/Snippet credential to access a UCS Director server in the classic user interface:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the "UCS Director - Example" credential, then click its wrench icon (). The **Edit Basic/Snippet Credential** modal page appears.
3. Enter values in the following fields:
    - ***Credential Name***. Enter a new name for the UCS Director credential.
    - ***Hostname/IP***. Enter "http://%D".
    - ***Port***. Enter "80".

- ***Timeout***. Enter "60000".
- ***Username***. Keep the default value.
- ***Password***. Enter the REST API Access Key that you located in the section *Copying the REST API Access Key for a UCS Director Account*.

4. Click the **[Save As]** button.
5. When the confirmation message appears, click **[OK]**.

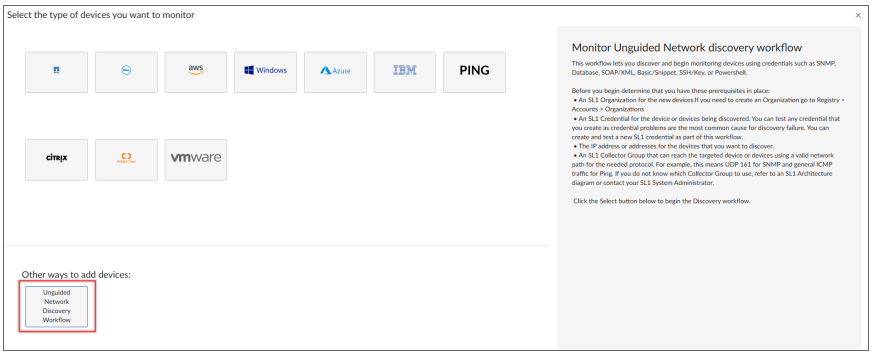
Discovering UCS Director

To model and monitor your Cisco UCS Director devices, you must run a discovery session to discover the UCS Director component devices that SL1 will use as the root devices for monitoring the applications.

After the discovery session completes, the Dynamic Applications in the "Cisco: UCS Director" PowerPack automatically align to the component device, and then the PowerPack discovers, models, and monitors the remaining Cisco UCS Director devices.

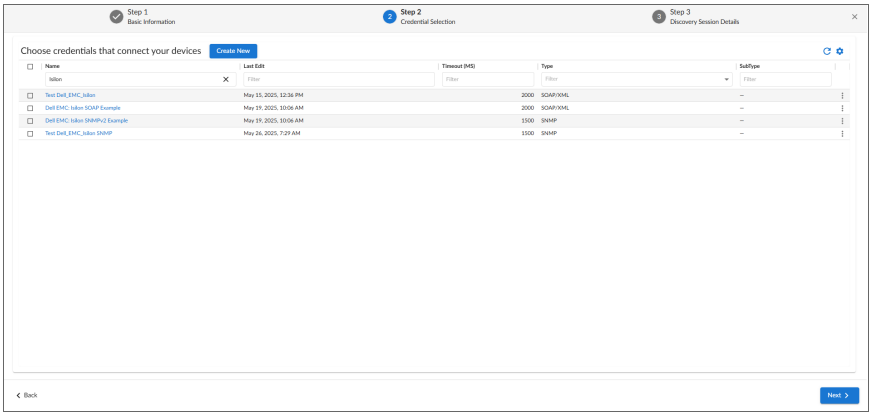
To discover the devices that you want to monitor:

1. On the **Devices** page ( ) or the **Discovery Sessions** page (Devices > Discovery Sessions), click the **[Add Devices]** button. The **Select** page appears:

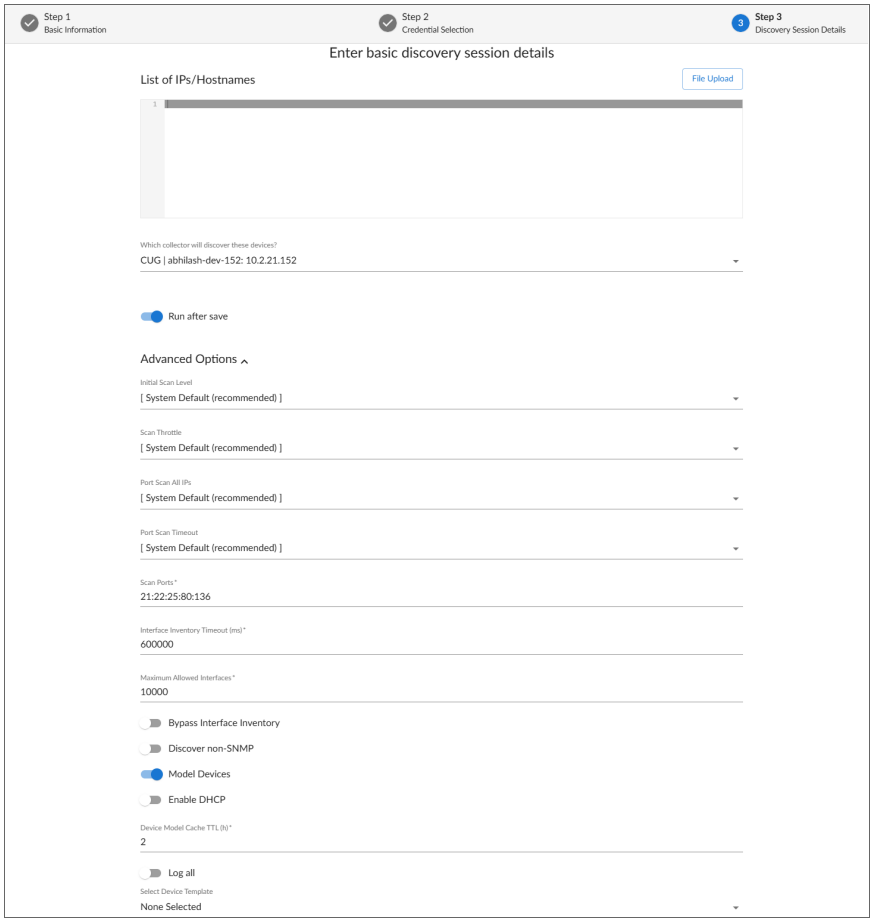


2. Click the **[Unguided Network Discovery]** button. Additional information about the requirements for discovery appears in the **General Information** pane to the right.
3. Click **[Select]**. The **Add Devices** page appears.
4. Complete the following fields:
   - ***Name***. Type a unique name for this discovery session. This name is displayed in the list of discovery sessions on the **[Discovery Sessions]** tab.
   - ***Description***. Optional. Type a short description of the discovery session. You can use the text in this description to search for the discovery session on the **[Discovery Sessions]** tab.
   - ***Select the organization to add discovered devices to***. Select the name of the organization to which you want to add the discovered devices

5. Click **[Next]**. The **Credentials** page of the **Add Devices** wizard appears:



6. On the **Credentials** page, select the SNMP credential and the Basic/Snippet credential you created.
7. Click **[Next]**. The **Discovery Session Details** page of the **Add Devices** wizard appears:

8. 

9. Complete the following fields:

- ***List of IPs/Hostnames***. Type the IP address or hostname for the set of Cisco Meeting Server devices that you want to monitor.
- ***Which collector will monitor these devices?***. Required. Select an existing collector to monitor the discovered devices.
- ***Run after save***. Select this option to run this discovery session as soon as you save the session.

  In the **Advanced options** section, click the down arrow icon ( ) to complete the following fields:

  - ***Discover Non-SNMP***. Enable this setting.
  - ***Model Devices***. Enable this setting.

10. Click **[Save and Run]** if you enabled the Run after save setting, or **[Save and Close]** to save the discovery session. The **Discovery Sessions** page (Devices > Discovery Sessions) displays the new discovery session.
11. If you selected the **Run after save** option on this page, the discovery session runs, and the **Discovery Logs** page displays any relevant log messages. If the discovery session locates and adds any devices, the **Discovery Logs** page includes a link to the **Device Investigator** page for the discovered device.

Discovery UCS Director Devices in the SL1 Classic User Interface

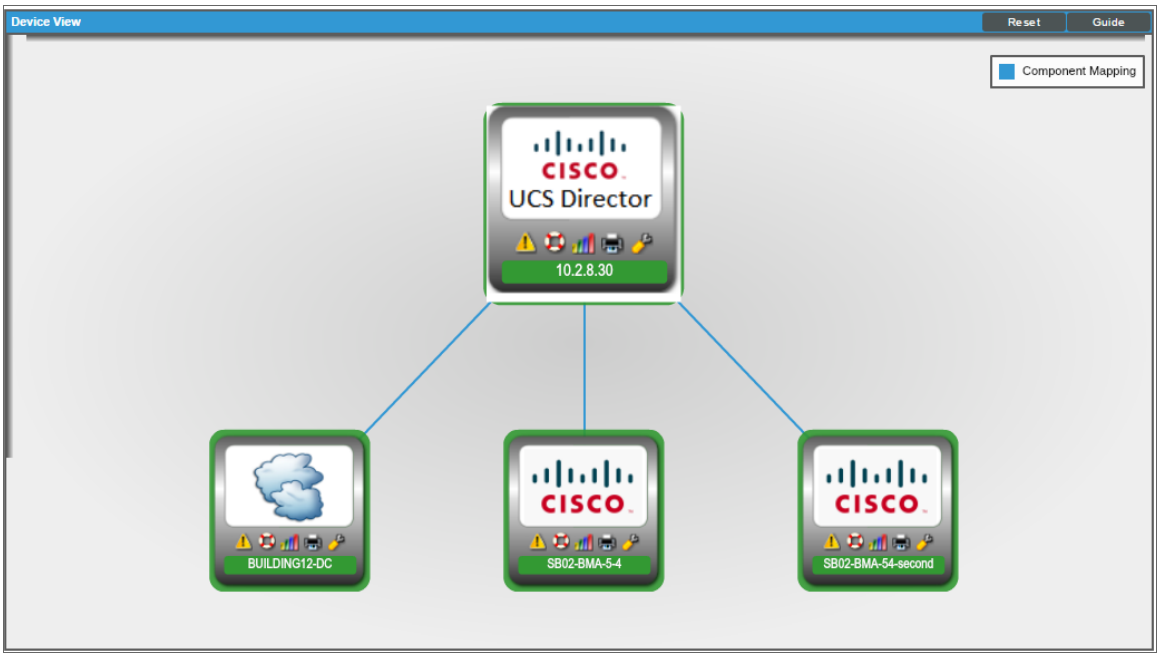
To create and run a discovery session in the SL1 classic user interface that will discover UCS Director, perform the following steps:

1. Go to the **Discovery Control Panel** page (System > Manage > Classic Discovery or System > Manage > Discovery in the classic user interface).
2. Click the **[Create]** button to create a new discovery session. The **Discovery Session Editor** window appears.
3. Edit the following fields in the **Discovery Session Editor** window:
   - ***Name***. Enter a name for the discovery session.
   - ***IP Address/Hostname Discovery List***. Enter the IP address for UCS Director.
   - ***Other Credentials***. Select the *Basic/Snippet credential that you created for UCS Director*.
   - ***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 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 UCS Director is discovered, click its device icon ( ) to view the **Device Properties** page for the UCS Director server.

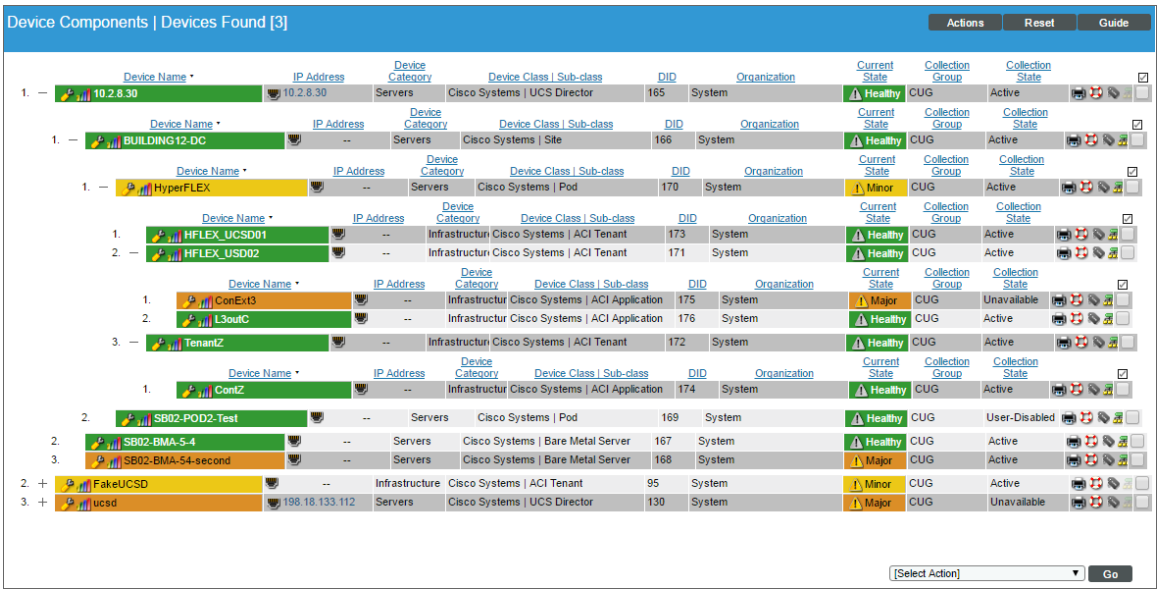
Viewing UCS Director Component Devices

In addition to the **Device Manager** page (Devices > Classic Devices, or Registry > Devices > Device Manager in the classic SL1 user interface), you can view UCS Director component devices in the following places in the user interface:

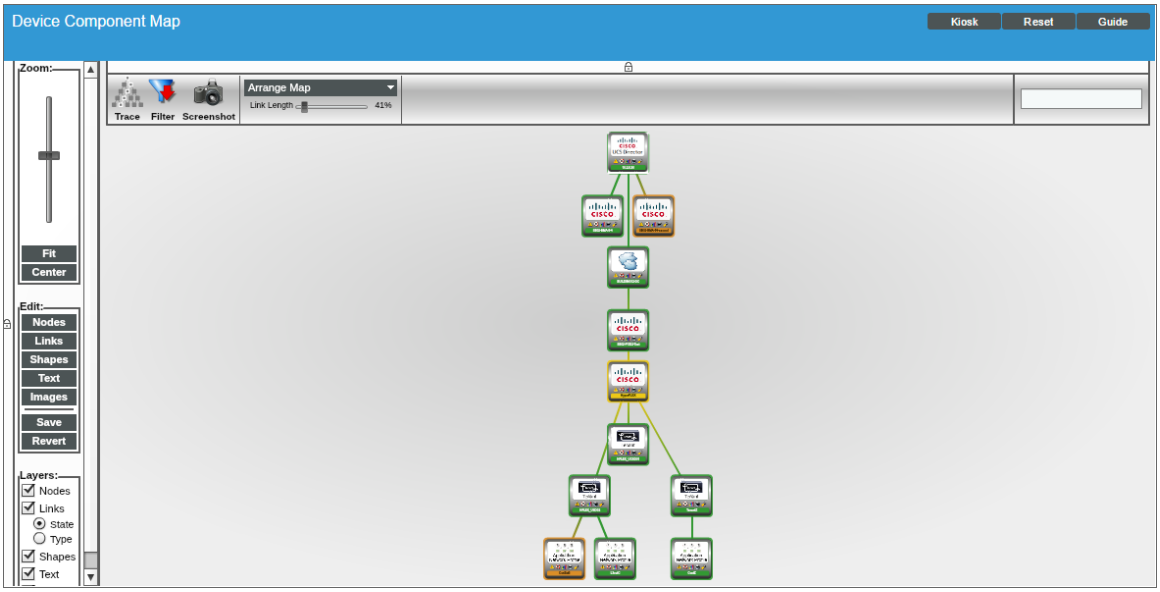
- The **Device View** modal page displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:



- The **Device Components** page (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 UCS Director, find the UCS Director device and click its plus icon (+):



- The **Component Map** page (Classic Maps > 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 UCS Director, 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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