Monitoring Cisco ACI Multi-Site Manager

Cisco: ACI Multi-Site Manager PowerPack version 100

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Chapter 1

Introduction

Overview

This manual describes how to monitor Cisco ACI Multi-Site architectures in the ScienceLogic platform using the *Cisco: ACI Multi-Site Manager* PowerPack.

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 ACI Multi-Site?

Cisco ACI Multi-Site is an architectural approach for interconnecting and managing multiple sites. Each architecture acts as a single fabric.

The Multi-Site architecture has three components:

- Two or more ACI fabrics built with Nexus 9000 switches deployed as leaf and spine nodes
- One APIC cluster domain in each fabric
- An inter-site policy manager, named Cisco ACI Multi-Site, which is used to manage the different fabrics and to define inter-site policies

What Does the Cisco: ACI Multi-Site Manager PowerPack Monitor?

To monitor Cisco ACI Multi-Site architectures using the ScienceLogic platform, you must install the *Cisco: ACI Multi-Site Manager* PowerPack. This PowerPack enables you to discover, model, and collect data about Cisco ACI Multi-Site architectures.

The *Cisco: ACI Multi-Site Manager* PowerPack includes:

- A sample credential you can use as a template to create a SOAP/XML credential to connect to the Cisco ACI Multi-Site architecture you want to monitor
- Dynamic Applications to discover, model, and monitor performance metrics and/or collect configuration data
- Device Classes for each type of ACI Multi-Site Manager device monitored
- Event Policies and corresponding alerts that are triggered when ACI Multi-Site Manager devices meet certain status criteria

Installing the Cisco: ACI Multi-Site Manager PowerPack

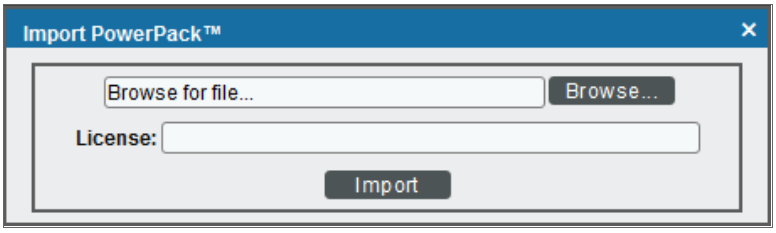
Before completing the steps in this manual, you must import and install the latest version of the *Cisco: ACI Multi-Site Manager* PowerPack.

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.)

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

Configuring Cisco ACI Multi-Site for Monitoring

Overview

The following sections describe how to configure and discover Cisco ACI Multi-Site Manager for monitoring by the ScienceLogic platform using the *Cisco: ACI Multi-Site Manager*PowerPack:

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Creating a Credential for Cisco ACI Multi-Site Manager

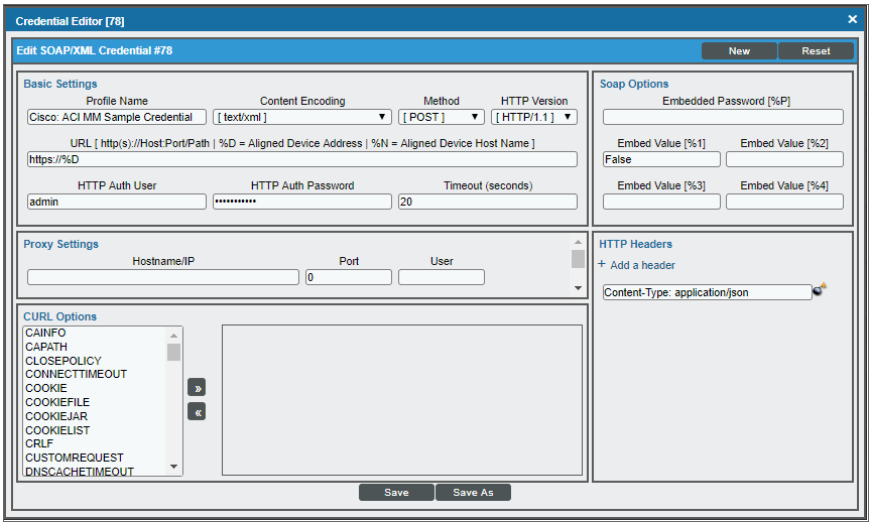
To configure the ScienceLogic platform to monitor Cisco ACI Multi-Site architecture, you must first create a SOAP/XML credential. This credential allows the Dynamic Applications in the *Cisco: ACI Multi-Site Manager*PowerPack) to communicate with your Cisco ACI Multi-Site account.

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

To configure a SOAP/XML credential:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the **Cisco: ACI MM Sample Credential** credential, then click its wrench icon ( ). The **Edit SOAP/XML Credential** modal page appears.

3. Enter values in the following fields:



Basic Settings

- ***HTTP Auth User***. Enter the username for the Cisco ACI Multi-Site web interface
- ***HTTP Auth Password***. Enter the password for the Cisco ACI Multi-Site web interface

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

Creating a Cisco ACI Multi-Site Manager Virtual Device and Discovering Cisco ACI Multi-Site

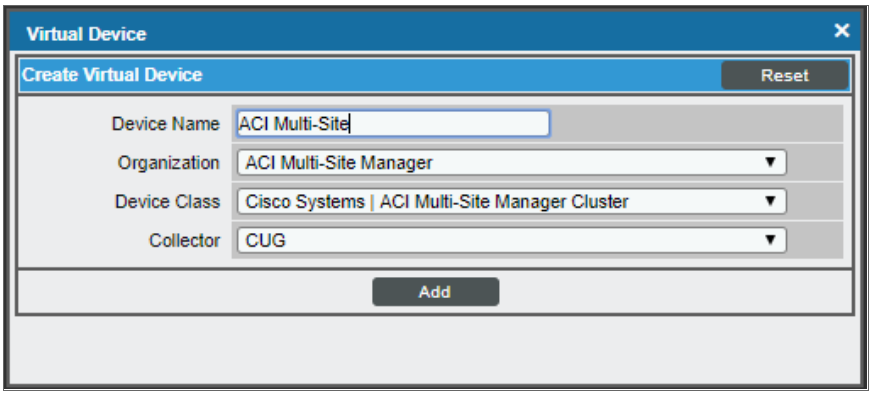
To discover a Cisco ACI Multi-Site architecture, you must create a ***virtual device*** that represents the root device. A virtual device is a user-defined container that represents a device or service that cannot be discovered by the ScienceLogic platform. You can use the virtual device to store information gathered by policies or Dynamic Applications.

TIP: If you have multiple Cisco ACI Multi-Site architecture you want to monitor, you should create a separate virtual device for each root device. You can also create different organizations for each architecture.

To create a virtual device that represents your Cisco ACI Multi-Site architecture:

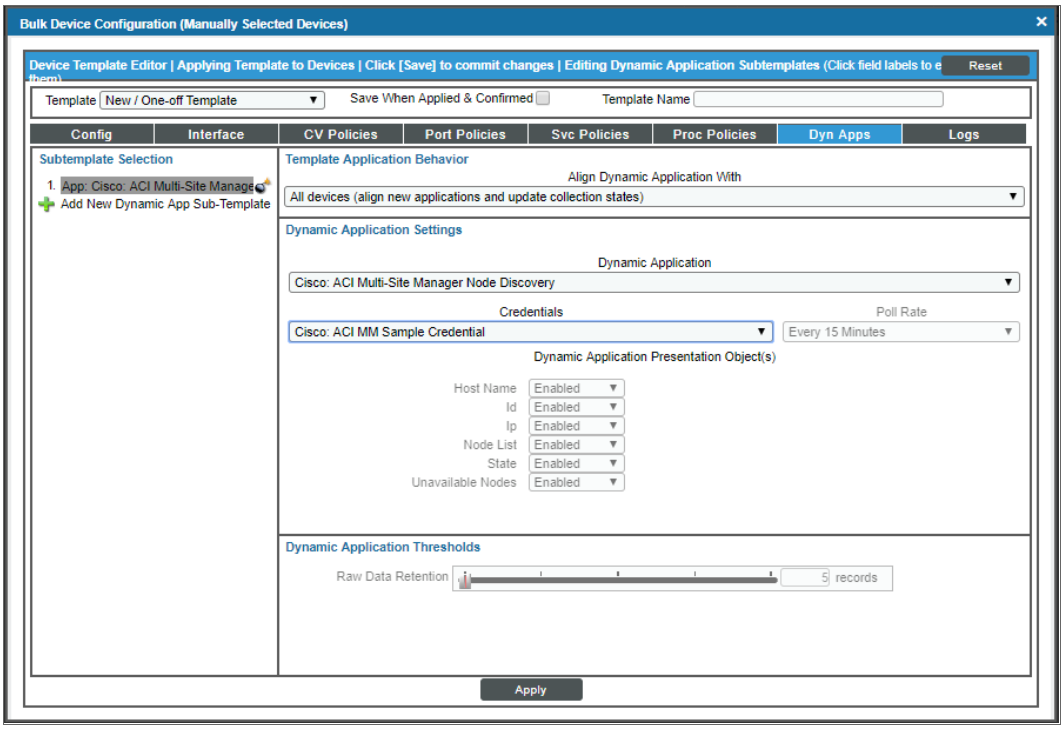
1. Go to the **Device Manager** page (Registry > Devices > Device Manager).
2. Click the **[Actions]** button and select *Create Virtual Device* from the menu. The **Virtual Device** modal page appears.

3. Enter values in the following fields:



- ***Device Name***. Enter a name for the device. For example, you could enter "ACI Multi-Site" in this field.
- ***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 Systems | ACI Multi-Site Manager Cluster*.
- ***Collector***. Select *CUG*.

4. Click the **[Add]** button to create the virtual device.
5. Once you have created the device, go to the **Device Manager** page (Registry > Device > Device Manager) and select the virtual device you created.
6. In the ***Select Action*** menu, select *MODIFY By Template* and click **[Go]**.
7. In the **Device Template Editor** window, select the **[Dyn Apps]** tab.
8. Click the plus sign in the **Subtemplate Selection** pane.
9. In the **Dynamic Application Settings** pane, select the "Cisco: ACI Multi-Site Manager Node Discovery" Dynamic Application.
10. In the ***Credentials*** drop-down, select the "Cisco: ACI MM Sample Credential". Click **[Apply]**.



Once you have completed modifying the device template, discovery will run and the Dynamic Applications will be aligned.

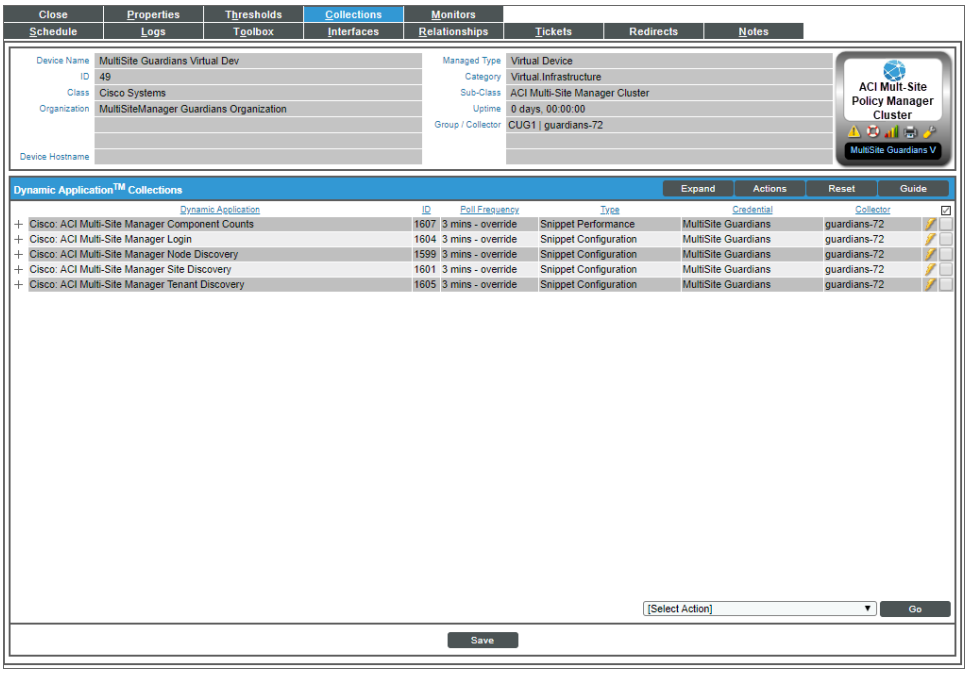
Verifying Discovery and Dynamic Application Alignment

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

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 ACI Multi-Site 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.

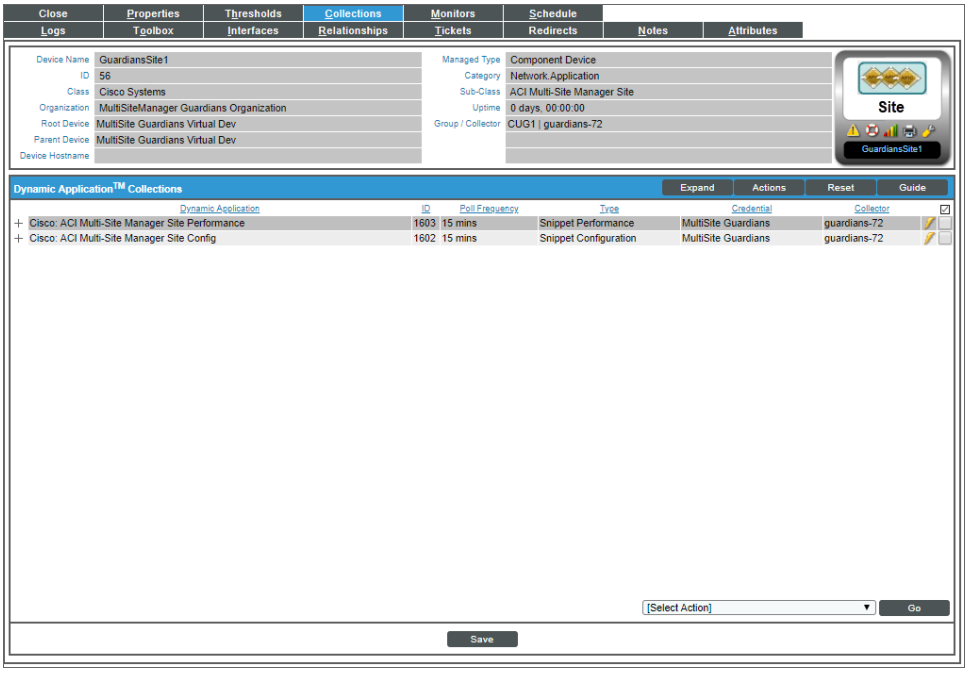
You should see the following Dynamic Applications aligned to the ACI Multi-Site virtual device:

- Cisco: ACI Multi-Site Manager Component Counts
- Cisco: ACI Multi-Site Manager Login
- Cisco: ACI Multi-Site Manager Node Discovery
- Cisco: ACI Multi-Site Manager Site Discovery
- Cisco: ACI Multi-Site Manager Tenant Discovery



The following Dynamic Applications will automatically align to their correspondent device components:

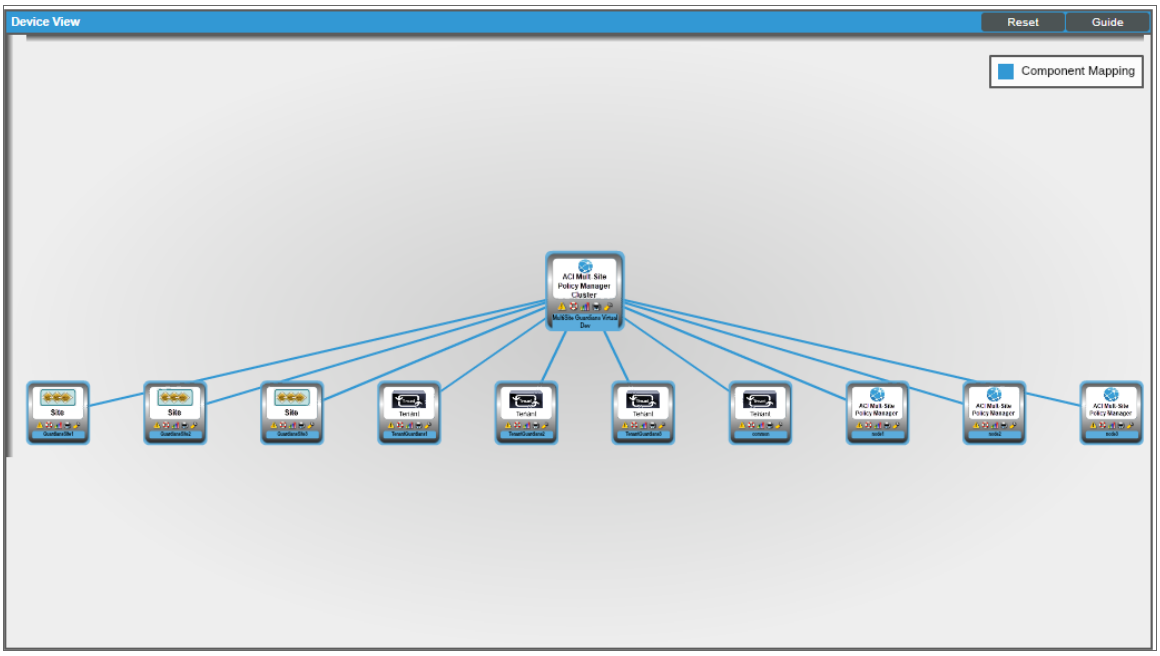
- Cisco: ACI Multi-Site Manager Node Configuration
- Cisco: ACI Multi-Site Manager Site Config
- Cisco: ACI Multi-Site Manager Site Performance
- Cisco: ACI Multi-Site Manager Tenant Config



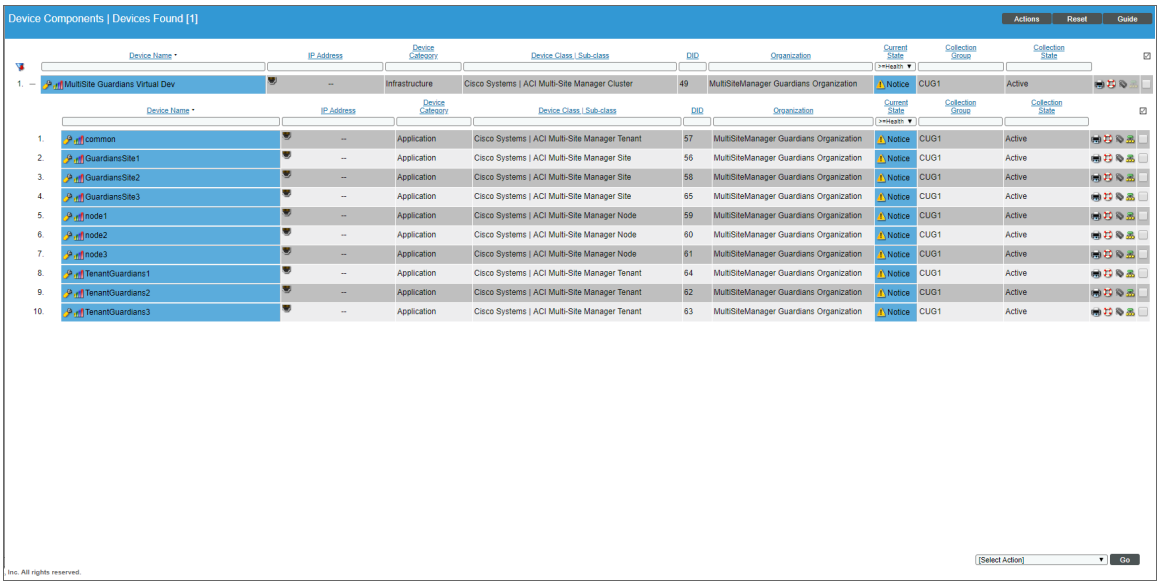
Viewing Component Devices

In addition to the **Device Manager** page (Registry > Devices > Device Manager), you can view the Cisco ACI Multi-Site Manager and all associated component devices in the following places in the user interface:

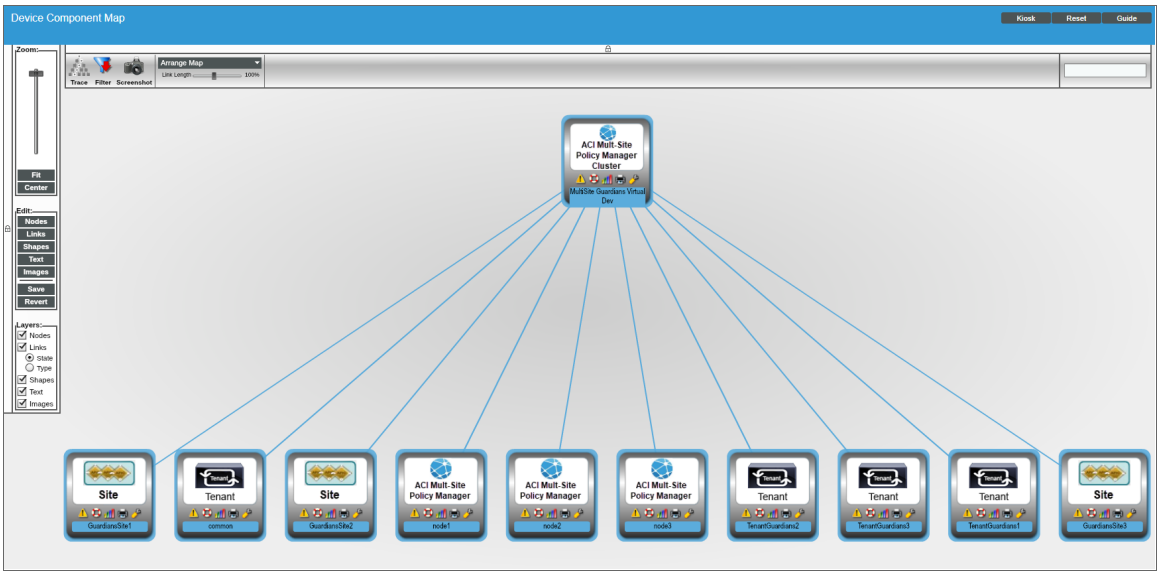
- The **Device View** modal page (click the bar-graph icon [ ] for a device, then click the **Topology** tab) displays a map of a particular device and all of the devices with which it has parent-child relationships. Double-clicking any of the devices listed reloads the page to make the selected device the primary device:



- The **Device Components** page (Registry > Devices > Device Components) displays a list of all root devices and component devices discovered by the ScienceLogic platform 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 an Azure service, find the Azure virtual 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. The ScienceLogic platform 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 an Azure service, 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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