About Cisco Cloud Network Controller

Overview

Cisco Application Centric Infrastructure (ACI) customers who own a private cloud sometimes may run part of their workload on a public cloud. However, migrating the workload to the public cloud requires working with a different interface and learning different ways to set up connectivity and define security policies. Meeting these challenges can result in increased operational cost and loss of consistency.

Cisco ACI can use Cisco Cloud Network Controller to extend a multi-site fabric to Amazon Web Services (AWS), Microsoft Azure, and Google Cloud public clouds.

What Cisco Cloud Network Controller Is

Cisco Cloud Network Controller is a software component of Cisco APIC that can be deployed on a cloud-based virtual machine (VM). Cisco Cloud Network Controller provides the following features:

- Provides an interface that is similar to the existing Cisco APIC to interact with the Google Cloud public cloud.

- Automates the deployment and configuration of cloud connectivity.

- Configures the cloud router control plane.

- Translates Cisco ACI policies to cloud native policies.

- Discovers endpoints.

Guidelines and Limitations

This section contains the guidelines and limitations for Cisco Cloud Network Controller.

- Before configuring an object for a tenant, first check for any stale cloud resource objects. A stale configuration might be present if it was not cleaned properly from the previous Cisco Cloud Network

Controller virtual machines that managed the account. Cisco Cloud Network Controller can display stale cloud objects, but it cannot remove them. You must log in to the cloud account and remove them manually.

To check for stale cloud resources:

1. From the Cisco Cloud Network Controller GUI, click the **Navigation menu > Application Management > Tenants**. The **Tenants** summary table appears in the work pane with a list of tenants as rows in a summary table.

2. Double click the tenant you are creating objects for. The Overview, Topology, Cloud Resources, Application Management, and Event Analytics tabs appear.

3. Click the **Cloud Resources > Actions > View Stale Cloud Objects**. The **Stale Cloud Objects** dialog box appears.

About the Cisco Cloud Network Controller GUI

The Cisco Cloud Network Controller GUI is categorized into groups of related windows. Each window enables you to access and manage a particular component. You move between the windows using the **Navigation** menu that is located on the left side of the GUI. When you hover your mouse over any part of the menu, the following list of tab names appear: **Dashboard**, **Application Management**, **Cloud Resources**, **Operations**, **Infrastructure**, and **Administrative**.

Each tab contains a different list of subtabs, and each subtab provides access to a different component-specific window. For example, to view the EPG-specific window, hover your mouse over the **Navigation** menu and click **Application Management** > **EPGs**. From there, you can use the **Navigation** menu to view the details of another component. For example, you can navigate to the **Active Sessions** window from **EPGs** by clicking **Operations** > **Active Sessions**.

The **Intent** menu bar icon enables you to create a component from anywhere in the GUI. For example, to create a tenant while viewing the **EPGs** window, click the **Intent** icon. A dialog appears with a search box and a drop-down list. When you click the drop-down list and choose **Application Management**, a list of options, including the **Tenant** option, appears. When you click the **Tenant** option, the **Create Tenant** dialog appears displaying a group of fields that are required for creating the tenant.

For more information about configuring Cisco Cloud Network Controller components, see Configuring Cisco Cloud Network Controller Components