Managing Cisco Container Platform Infrastructure Configuration

This chapter contains the following topics:

Managing Provider Profile

Cisco Container Platform enables you to define the provider profile on which clusters can be created.

You can configure multiple provider profiles in an instance of Cisco Container Platform and use the same provider profile for multiple clusters.

Adding Provider Profile

Before you begin

Cisco Container Platform interacts with vSphere through the user that you configure when you add a provider profile. Hence, you need to ensure that this user has the necessary privileges.

For more information on the vSphere user privileges, see User Privileges on vSphere.

Step 1 From the left pane, click **Infrastructure Providers**.

Step 2 Click **NEW PROVIDER** and specify information such as name and description of provider, IP address, port, username and passphrase of the provider profile.

Step 3 Click **SUBMIT**.

Modifying Provider Profile

Step 1   From the left pane, click **Infrastructure Providers**.

Step 2   From the drop-down list displayed under the **ACTIONS** column, choose **Edit** corresponding to the provider profile that you want to modify.

Step 3   Change the provider details as necessary and click **SUBMIT**.

Deleting Provider Profile

Step 1   From the left pane, click **Infrastructure Providers**.

Step 2   From the drop-down list displayed under the **ACTIONS** column, choose **Delete** corresponding to the provider profile that you want to delete.

Step 3   Click **DELETE** in the confirmation dialog box.

Managing ACI Profile

Cisco Container Platform enables you to define ACI profiles using which tenant clusters can be created.

You can define multiple ACI profiles and use the same profile for multiple clusters.

Adding ACI Profile

Step 1   From the left pane, click **ACI Profiles**.

Step 2   Click **Add New ACI Profile** and perform these steps:

a)   Specify information such as profile name, IP address, username, and passphrase of the ACI instance.

> **Note**   If there is more than one host, use a comma-separated host list in the **APIC IP ADDRESSES** field.

b)   In the **NAMESERVERS** field, enter the IP address of all the DNS servers that the ACI fabric can access.

c)   From the **VMM DOMAIN** drop-down list, choose the Virtual Machine Manager Domain (VMMD) that you want to use.

d)   In the **INFRASTRUCTURE VLAN ID** field, enter the VLAN number for layer 2 networking.

e)   From the **VRF** drop-down list, choose the Virtual Routing and Forwarding (VRF) IP address.

f)   From the **L3OUT POLICY NAME** drop-down list, choose the ACI object for allowing external internet connectivity.

g)   From the **L3OUT NETWORK NAME** drop-down list, choose the external network that is reachable through the L3OUT object.

h)   From the **AAEP NAME** drop-down list, choose an Attachable Access Entity Profile (AAEP) name to associate the VMM domain with an AAEP.

i)   In the **STARTING SUBNET FOR PODS** field, enter the starting IP address for the IP pool that is used to allocate IP addresses to the pods.

j) In the **STARTING SUBNET FOR SERVICE** field, enter the starting IP address for the IP pool that is used to allocate IP addresses to the service VLAN.

k) In the **CONTROL PLANE CONTRACT NAME** field, enter the name of the contract that allows traffic from the Control Plane cluster to the tenant cluster.

l) In the **NODE VLAN START ID** field, enter the starting IP address for the IP pool that is used to allocate IP addresses to the node VLAN.

m) In the **NODE VLAN END ID** field, enter the ending IP address for the IP pool that is used to allocate IP addresses to the node VLAN.

n) In the **OPFLEX MULTICAST RANGE** field, enter a range for the Opflex multicast.

Step 3 Click **SUBMIT**.

Modifying ACI Profile

Step 1 From the left pane, click **ACI Configuration**.

Step 2 From the drop-down list displayed under the **ACTIONS** column, choose **Edit** for the ACI profile that you want to modify.

Step 3 Change the ACI profile details as necessary and click **SUBMIT**.

Deleting ACI Profile

Step 1 From the left pane, click **ACI Configuration**.

Step 2 From the drop-down list displayed under the **ACTIONS** column, choose **Delete** for the ACI profile that you want to delete.

Step 3 Click **DELETE** in the confirmation dialog box.

Managing Networks

Note This section is applicable only for a non-ACI environment.

Cisco Container Platform enables you to select an existing network, create a subnet in that network, and then create a Cisco Container Platform Virtual IP Address (VIP) pool within that subnet.

VIP pools are reserved ranges of IP addresses that are assigned as virtual IP addresses within the Cisco Container Platform clusters. For example, the master VIPs of tenant clusters or the external IP addresses of Ingress controllers are assigned from the VIP pool. The range of IP addresses in the VIP pools must be outside of the IP addresses that are assigned by DHCP.

Modifying Networks

Step 1 From the left pane, click **Networks**.
The **Networks** page displays the list of available networks.

Step 2 From the drop-down list displayed under the **ACTIONS** column, choose **Edit** for the network that you want to modify.

Alternatively, click the **SUBNETS** tab or the **POOLS** tab, and then click **EDIT** from the right pane to view the **Edit** dialog box.

Step 3 Modify the network name or the network VRID ranges as necessary, and then click **SUBMIT**.

Adding Subnets

If you want to allocate VIP from a different subnet CIDR you need to add the subnet.

Step 1 From the left pane, click **Networks**, and then click the network to which you want to add a subnet.

Step 2 From the right pane, click **NEW SUBNET**.

Step 3 Enter a name and CIDR for the subnet.

Step 4 Click **SUBMIT**.

Modifying Subnets

Step 1 From the left pane, click **Networks**, and then click the network that contains the subnet you want to modify.

Step 2 Click the **SUBNETS** tab.

Step 3 From the drop-down list displayed under the **ACTIONS** column, choose **Edit** for the subnet that you want to modify.

Step 4 Modify the subnet name and CIDR as necessary, and then click **SUBMIT**.

Adding VIP Pool

Step 1 From the left pane, click **Networks**, and then click the network to which you want to add a VIP pool.

Step 2 From the right pane, click **NEW POOL**.

Step 3 Specify a name, subnet and IP address range for the VIP pool.

Step 4 Click **SUBMIT**.

Modifying VIP Pool

Step 1   From the left pane, click **Networks**, and then click the network that contains the VIP pool you want to modify.

Step 2   Click the **POOLS** tab.

Step 3   From the drop-down list displayed under the **ACTIONS** column, choose **Edit** for the VIP pool that you want to modify.

Step 4   Change the pool name and the IP address as necessary, and then click **SUBMIT**.