



Creating Application Containers

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General Application Container Creation Process

The following process explains the creation of an application container in Cisco UCS Director, such as a fenced virtual application container: The following sections in this chapter provide detailed procedures for completing each step.



Note

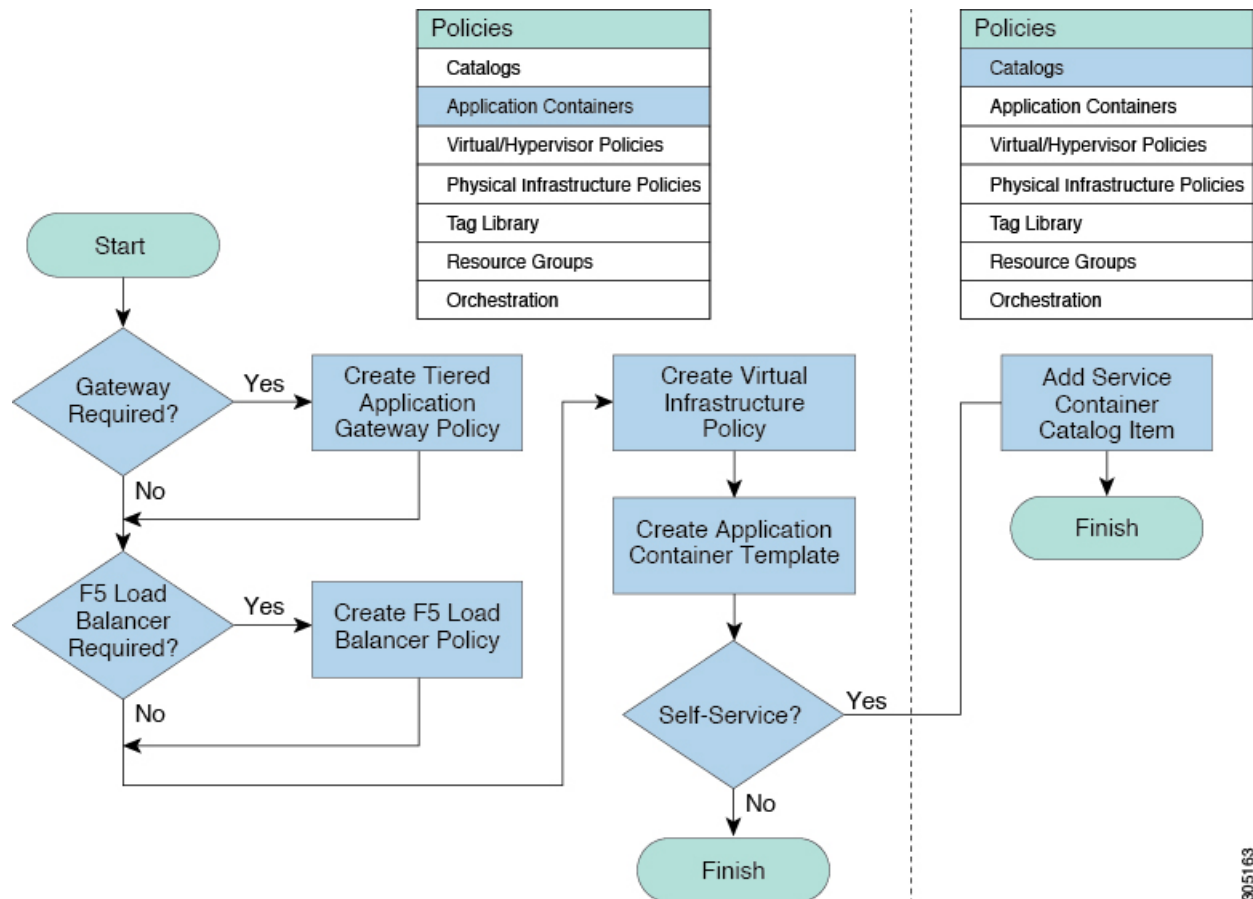
The process for creating an Application Centric Infrastructure Controller (APIC) managed container is different. For APIC containers, refer to [APIC Application Container Creation Process](#).

- 1 If a gateway is required, create a tiered application gateway policy.
- 2 If a load balancer is required, create a load balancer policy.
- 3 Create a virtual infrastructure policy to define the cloud account, the type of container and, if appropriate, the tiered application gateway and load balancer policies.
- 4 Create an application container template.
 - a Add networks (one network per application tier).
 - b Add virtual machines and baremetal servers.
 - c Add a compute policy, storage policy, network policy, and systems policy. If desired, you can also add a cost model.

- d Add an end user self-service policy and configure the self-service options.
 - e Add the container setup workflow required to deliver the service offering to the user as part of a service request. The workflow must consider the type of container and the application to be provisioned.
- 5 Create a container based on the container template.

The figure illustrates the creation of the general application container template within Cisco UCS Director.

Figure 1: Process for Creating a General Application Container Template



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Creating Application Container Policies

- Step 1** Choose **Policies > Application Containers**.
- Step 2** Click the **Virtual Infrastructure Policies** tab.
- Step 3** Click the **Add Policy** button.
- Step 4** In the **Virtual Infrastructure Policy Specification** dialog box, complete the following fields:

| Name | Description |
|--|--|
| Policy Name field | The name of the policy. |
| Policy Description field | The description of the policy. |
| Container Type drop-down list | Choose a container type: APIC, Fenced Virtual, VSG, or Fabric. |
| Select Virtual Account drop-down list | The chosen virtual account (the cloud on which the gateway VM is created). |

Step 5

If you chose **Fabric** for your Container type, go to step 6. However, if you chose **Fenced Virtual**, **APIC** or **VSG**, see the following table for what to do next:

| Option | Description |
|-----------------------|--|
| Fenced Virtual | Click Next and follow the wizard prompts. |
| APIC | See Creating a Virtual Infrastructure Policy |
| VSG | See Creating a Virtual Infrastructure Policy |

Step 6

Continue with this step if you chose **Fabric** for your Container type in step 4. In the **Virtual Infrastructure Policy - Fabric Information** dialog box, complete the following fields:

| Name | Description |
|--|---|
| With VSG check box | Check the check box for VSG support. If checked, complete the following: <ol style="list-style-type: none"> 1 Enter information for the Service Network Configuration and Host Network Configuration. 2 Go to step 7 to complete the remaining prompts of the wizard. If unchecked, go to step 9. |
| Fabric account drop-down list | Choose a fabric account. |
| Switch Type drop-down list | Choose a switch type. |
| Switch Name drop-down list | Choose the name for the switch. |
| Alternate Switch Name drop-down list | Choose an alternate switch name. |
| Service Network Configuration | |
| Mobility Domain Id (Service Network + HA) field | If the AutoSelect Mobility Domain Id check box is not checked, click Select to add the mobility domain id. |

| Name | Description |
|--|--|
| Layer 3 check box | <p>Check the check box for Layer 3 support.</p> <p>Note You must complete the required predeployment set up for Layer 3 support which includes vpath partition, and service and classifier network setup. This can be completed by creating and executing an orchestration workflow that contains the following tasks from the task library:</p> <ul style="list-style-type: none"> • Create Fabric Organization (Create vPath Organization) • Create Fabric Partition (Create vPath partition) • Create Fabric Network (Create vPath classifier network) • AddHostVMKernelPortondvSwitch (Add vmknics to N1kv VEM Cluster) • Create Fabric Network (Create vPath Service Network) |
| Fabric Organization drop-down list | Choose the fabric organization. |
| Fabric Partition drop-down list | Choose the fabric partition. |
| Fabric Service Network field | Click Select to add the fabric service network. |
| Host Network Configuration | |
| Mobility Domain Id(Service Network + HA) field | <p>If the AutoSelect Mobility Domain Id check box is not checked, click Select to add the mobility domain ID.</p> <p>Note If it is Layer 2, the Mobility Domain of the service network and corresponding host network must be the same as the service network, or can be none.</p> |
| Partition Parameters | |
| DCI ID field | Enter the DCI ID. |
| Extend the partition across the fabric check box | Check the check box to enter the partition across the fabric. |
| Service Node IP Address field | Enter the IP address for the service node. |
| DNS Server field | Enter the DNS Server. |
| Secondary DNS Server field | Enter the secondary DNS Server. |

| Name | Description |
|---------------------------------------|--|
| Multi Cast Group Address field | Enter the multi-cast group address. |
| Profile Name field | Click Select to add the profile name. |

Step 7 Click **Next**.

Step 8 Continue with this step only if you checked the **With VSG** check box in the previous step. In the **Virtual Infrastructure Policy - PNSC Information** complete the following:

| Name | Description |
|------------------------------------|--------------------------------|
| PNSC Account drop-down list | Choose a PNSC account. |
| VSG Template Configuration | |
| PNSC Firewall Policy | Choose a PNSC Firewall Policy. |

Step 9 Click **Next**.

Step 10 In the **F5 Load Balancer Information** dialog box, complete the fields for the F5 Load Balancer.

Step 11 Click **Next**.

Step 12 In the **Virtual Infrastructure Policy - Gateway** dialog box, check the **Gateway required** check box if you want to add a gateway.

Step 13 Click **Next**.

Step 14 In the **Summary** dialog box, click **Submit**.

About Application Container Templates

To create an application container template, you must provide information regarding the following elements. This information is used to create your containers:

- Virtual account (cloud)
- Network configuration
- VM configuration
- Container security
- Select Network, Storage, Compute, and Cost Model policies
- Select the gateway policy, if **Gateway Required** check box is enabled (optional)
- Options for service end users

**Note**

For more information regarding the container templates and Virtual Secure Gateways (VSGs), see [Creating an Application Template for a VSG](#).

Creating Application Container Templates

**Note**

Before you create an application container, you must create a template.

For more information on creating the container templates for use with a VSG, see [Creating an Application Template for a VSG](#).

**Note**

With this template, you can create application containers for use in various networks (including DFA Networks). Changes to the template will not affect the existing application containers created with the template. This topic describes the creation of a fenced virtual application container template. The content displayed on your screens may vary slightly depending upon settings in your policy.

Before You Begin

Create a virtual infrastructure policy. See [Creating Application Container Policies](#), on page 2.

Step 1 On the menu bar, choose **Policies > Application Containers**.

Step 2 Click the **Application Container Templates** tab.

Step 3 Click **Add Template**. The **Application Container Template** screen appears. Complete the following fields:

| Name | Description |
|----------------------------|----------------------------------|
| Template Name field | The name of the new template. |
| Template Description field | The description of the template. |

Step 4 Click **Next**.

Step 5 The **Application Container Template - Select a Virtual infrastructure policy** screen appears. Complete the following selection:

| Name | Description |
|---|------------------|
| Select Virtual Infrastructure Policy drop-down list | Choose a policy. |

Step 6 Click **Next**.

Step 7 If you chose a fabric-based virtual infrastructure policy in the **Fabric Networks** screen, click the **(+) Add** icon to add a fabric network and complete the following fields; however, if you chose any other virtual infrastructure policy go to step 10.

| Name | Description |
|---|--|
| External Partition check box | Check the check box to enable the host network for the ASA external partition. |
| Network Name field | A unique name for the network within the container. You can use a maximum of 128 characters, |
| Network Role | Choose a network role. |
| Description | The description of the network. |
| Multicast Group Address | The multicast group address. |
| Profile Name | Click Select to choose a profile. |
| Gateway IP Address | The IP address of the default gateway for the network. |
| Network Mask | The network mask (for example, 255.255.255.0). |
| DHCP Serverv6 Address | The DHCP server address |
| vrfdhcp field | The VRF DHCP address |
| mtuvalue field | The maximum transmission unit (MTU) value. |
| vrfv6dhcp field | The VRF DHCP address. |
| Gateway IP v6Address | The gateway IPv6 address. |
| Prefix Length field | The prefix length. |
| DHCP Scope | |
| DHCP Enabled check box | Check the check box to enable DHCP. |
| Service Configuration Parameters | |
| Start IP field | The start IP address. |
| End IP field | The end IP address. |
| Secondary Gateway field | The secondary gateway address. |

Step 8 Click **Submit**.

Step 9 Click **Next**.

Step 10 Continue with this step if you did *not* choose Fabric-based virtual infrastructure policy in step 5. Otherwise, go to step 14 to define VMs.

The **Application Container: Template - Internal Networks** screen appears. You can add and configure multiple networks for a container. These networks are applicable to the VM that is provisioned using this template.

Step 11 Click the (+) **Add** icon to add a network. Complete the following fields:

| Name | Description |
|--|--|
| Network Name field | Enter unique network name for the container. You can use a maximum of 128 characters. |
| Network Type drop-down list | Choose a network type. |
| Information Source drop-down list | Choose the information source. It can be one of the following: <ul style="list-style-type: none"> • Inline • Static Pool |
| VLAN ID Range field | Enter a VLAN ID range. |
| Network IP Address field | The IP address of the network (for example, 10.10.10.0). A unique subnet is chosen for each internal network. |
| Network Mask field | The network mask (for example, 255.255.255.0). |
| Gateway IP Address field | The IP address of the default gateway for the network. A NIC with this IP is created on the GW VM. |

Step 12 Click **Submit**.

Next, you can add and configure the VM that will be provisioned in the application container.

Step 13 Click **OK**.

Step 14 Click the **Add (+)** icon to add a VM. The **Add Entry** screen appears. Complete the following fields:

| Name | Description |
|--|---|
| VM Name field | The VM name. |
| Description field | The description of the VM. |
| VM Image drop-down list | Choose the image to be deployed. |
| Number of Virtual CPUs drop-down list | The number of virtual CPUs to be allocated to the VM. |

| Name | Description |
|--|---|
| Memory drop-down list | The memory to be allocated (in MB). |
| CPU Reservation (MHz) field | The CPU reservation for the VM. |
| Memory Reservation (MB) field | The memory reservation for the VM. |
| Disk Size (GB) field | The custom disk size for the VM. To use the template disk size, specify the value of 0. The specified disk size overrides the disk size of the selected image. |
| VM Password Sharing Option drop-down list | Choose an option for how to share the VM's username and password with the end users. If Share after password reset or Share template credentials is chosen, the end user needs to specify a username and password for the chosen templates. |
| Use Network Configuration from Image check box | If checked, use the network configuration from the image and the configuration is applied to the provisioned VM. |
| VM Network Interface field | Choose the VM network interface information. |
| Maximum Quality field | The maximum number of instances that can be added in this container after it is created. |
| Initial Quality field | The number of VM instances to provision when the container is created. |

Step 15 Click **Next**.

Step 16 Continue with this step if you did *not* choose Fabric-based virtual infrastructure policy in step 5. Otherwise, go to step 18.

In the **Application Container Template - External Gateway Security Configuration** screen, click the **Port Mappings (+) Add icon** to add port mappings. Complete the following fields:

| Name | Description |
|-------------------------|---|
| Protocol drop-down list | Choose a protocol. It can be one of the following: <ul style="list-style-type: none"> • TCP • UDP |
| Mapped Port field | Enter the mapped port. |
| Remote IP Address field | Enter the IP address |
| Remote Port field | Enter the remote port field. |

Step 17 In the **Application Container Template - External Gateway Security Configuration** screen, click the **Outbound ACLs (+) Add icon** to add port mappings. Complete the following fields:

| Name | Description |
|--------------------------------------|---|
| Protocol drop-down list | Choose a protocol. It can be one of the following: <ul style="list-style-type: none"> • IP • TCP • UDP • ICMP |
| Select Network drop-down list | Choose a network. |
| Source address field | Enter a source address. |
| Destination address field | Enter a destination address. |
| Action field | Choose an action. It can be one of the following: <ul style="list-style-type: none"> • Accept • Drop • Reject |

Step 18 Click **Next**. The **Application Container: Template - Deployment Policies** screen appears. You must select the compute, storage, network, system policy, and cost model required for VM provisioning. A policy is a group of rules that determine where and how a new VM is to be provisioned within an application container (based on the availability of system resources).

- The network policy is used only to deploy the outside interface of the virtual firewall (container gateway).
 - Note** If the gateway type is CISCO ASA for the container, the network policy must first add the ASA management interface and then the outside interface in the VM networks, in the same order.
- The selected *Portgroup in Network Policy* should be on the host on which the Gateway VM is provisioned.
- The network policy can use either a *Static IP Pool* or *DHCP*. However, for a container-type VSG the network policy should use a Static IP Pool only. The VSG VM requires IP addresses as input. There is no current provision to specify DHCP for deploying a VSG VM.
- The network adapter settings for a provisioned VM (container gateway) should be similar to the settings in the template. You may or may not have to check the *Copy Adapter from Template* check box in the network policy used for this application container.

Complete the following fields:

| Name | Description |
|--|---|
| Enable Self-Service Power Management of VMs check box | If checked, enables self-service power management of VMs. |
| Enable Self-Service Resizing of VMs check box | If checked, enables self-service resizing of VMs. |
| Enable Self-Service VM Snapshot Management check box | If checked, enables self-service VM snapshot management. |
| Enable Self-Service Deletion of Containers check box | If checked, allows for the deletion of containers. |
| Enable VNC Based Console Access check box | If checked, enables self-service VNC based console access. |
| Enable Self-Service Deletion of Containers check box | If checked, enables self-deletion of containers. |
| Technical Support Email Addresses field | The technical support email address. A detailed technical email is sent to one or more email addresses entered into this field after a container is deployed. |

| Name | Description |
|--------------------------------------|---------------------------|
| Compute Policy drop-down list | Choose a computer policy. |
| Storage Policy drop-down list | Choose a storage policy. |
| Network Policy drop-down list | Choose a network policy. |
| Systems Policy drop-down list | Choose a systems policy. |
| Cost Model drop-down list | Choose a cost model. |

Step 19

Click **Next**. The **Application Container: Template - Options** screen appears.

In this page, you can select options to enable or disable certain privileges for the self-service end user. Complete the following fields:

| Name | Description |
|---|---|
| End User Self-Service Policy drop-down list | Choose a self-service policy for end users. |
| Enable Self-Service Deletion of Containers check box | Check to allow end users to delete application containers created with this template. |

| Name | Description |
|--|--|
| Enable VNC Based Console Access check box | Check to allow virtual network computing (VNC) access to VMs on the container host. |
| Technical Support Email Address text field | Enter a comma-separated list of email addresses. Automated notifications are sent to these emails. |

Step 20 Click **Next**. The **Application Container: Template - Setup Workflows** screen appears. Complete the following field:

| Name | Description |
|---|--|
| Container Setup Workflow drop-down list | Choose a container setup workflow. By default, a workflow is not selected. You can skip this step if the gateway type chosen for this container is Linux and the Virtual Machine Portgroup is selected in the network policy associated with the container. Choosing a specific workflow is required only if you chose CISCO ASA as the container gateway or Distributed Virtual Portgroup as the network policy. For a CISCO ASAv gateway type, choose the Application Container with ASAv Gateway . Note You must perform some prerequisite steps before you can initiate the task for creating an application container template. |

Step 21 Click **Next**. The Application Container Template - Summary screen appears, displaying your current settings.

Step 22 Click **Submit** to complete the creation of the application container template.

What to Do Next

See [Creating a Custom Workflow for Application Containers](#) for information on customizing certain aspects of a template.

Creating a Custom Workflow for Application Containers



Note For more information about using the orchestration to run workflows, see the [Cisco UCS Director Orchestration Guide](#) for this release.



Note You cannot create an APIC application container by running a workflow directly. For information on creating the APIC application containers, see [APIC Application Container Creation Process](#).

If you use a workflow to create an application container template, you must perform some manual steps. There are two scenarios that you do encounter:

- **Gateway Type: CISCO ASA**—If the gateway type is CISCO ASA for the container, you must specifically choose **Application Container with ASA Gateway** from the list of available workflows. You can search for the workflow and check its check box in order to select it.
- **Distributed Virtual Portgroups**—If you choose the **Distributed Virtual Portgroup** in the network policy that is associated with the container, then you must perform the following steps manually:
 - 1 Choose **Virtual Network Type** and enter its name as required in a workflow associated with the container.
 - 2 Choose a specific workflow. This type of workflow depends on which gateway type was associated with the container. For a Linux gateway, choose **Application Container Setup** workflow. For a CISCO ASA gateway type, choose the **Application Container with ASA Gateway**.
 - 3 Edit or clone the required workflow by going to the Cisco UCS Director Orchestrator application and editing the workflow on the **Workflow Designer** page.
 - 4 In the workflow window, double-click the **Allocate Container VM Resources** task.
 - 5 Choose the required virtual network type (either **Distributed Virtual Portgroup** or **Distributed Virtual Portgroup N1K**).
 - 6 Specify the primary DVSwitch and alternate DVSwitch names.
 - 7 Click **Save** to save the workflow.

Managing Application Containers

As an administrator, you can perform the following management actions on application containers:

- Add VMs
- Open Console
- Clone Template
- Manage Container Power
- Delete Containers
- View Reports

Viewing Container Actions

Actions available to apply to a container are context-sensitive. You can use the action icons at the top of the **Application Container** tab or the actions drop-down to perform these actions.

Step 1 On the menu bar, choose **Policies > Application Containers**.

Step 2 Click the **Application Container** tab.

Step 3 Choose a container or right-click on the container to bring up all of the actions.

Note To view the container actions for a self-service user, you can give permission by enabling the **Enable Self-Service** check box (when creating the container template).

Note If there are too many action icons to display across the top of the **Application Container** tab, you can display the actions drop-down list by clicking the drop-down icon at the top right corner of the tab. You can select a container action from the action icons or from the actions drop-down list.

Adding VMs



Note You cannot add the VMs to the container through the **Add VMs to Container** workflow. You can add VMs only by clicking **Add VMs** or by using the API.

- Step 1** Choose **Policies > Application Containers**.
- Step 2** Click the **Application Containers** tab.
- Step 3** Choose a container.
- Step 4** Click **Add VMs**.
- Step 5** In the **Add VMs** dialog box, click the **Add (+)** icon to add a new VM.
- Step 6** From the **Network** drop-down list, choose the network (tier) to which to add the VM.
- Step 7** Define the Virtual Machine:
To use a template defined in the application profile, check the **Use Predefined Template** check box.
If instead you want to define the VM using an image and setting the parameters by hand, skip to Step 9.
- Step 8** In the Add Entry dialog box, complete the following fields:

| Name | Description |
|---------------------------------------|--|
| Network drop-down list | Select the network (tier) on which to add the VM. |
| VM Name drop-down list | Enter the name of the VM as defined in the application profile. |
| Select DRS Rule button | Click the button, then select a distributed resource scheduler (DRS) rule (also called an affinity rule) from the list. |
| No Of Instances drop-down list | The number of VM instances to create. The drop-down list limits your choices so as not to exceed the maximum number of VMs defined in the application profile. |

Skip to Step 10.

- Step 9** In the **Add Entry** dialog box, complete the following fields:

| Name | Description |
|-------------------------------|---|
| Network drop-down list | Select the network (tier) on which to add the VM. |

| Name | Description |
|--|--|
| VM Name text box | The name you want to assign the VM. During application container deployment, you can update the prefix from what is defined in the application profile. |
| VM Image drop-down list | The VM image to use. You define these VMs in the vCenter for your cluster. |
| Number of vCPUs drop-down list | Select the number of virtual CPUs for the VM. |
| Memory (MB) drop-down list | The size of the VM memory. |
| Disk Size (GB) text box | The size of the VM disk. If you enter zero, the VM uses the disk size defined in the image. |
| Select DRS Rule button | Click the button, then select a distributed resource scheduler (DRS) rule (also called an affinity rule) from the list. |
| Select Storage DRS Rule button (optional) | If you selected a DRS rule using the Select DRS Rule button, the Select Storage DRS Rule button appears. Click the button, then select a storage DRS rule from the list. |
| VM Password Sharing Option | The password sharing policy for this VM. Default is to not share the root password. |
| Network Adapter Type drop-down list | The network adapter for the VM. |
| Initial Quantity | The number of VMs to create on application startup. |

Step 10 Click **Submit**.

Step 11 To create more VMs, repeat the procedure starting with Step 5.

Step 12 When you have defined all the VMs you want, click **Submit** in the **Add VMs** dialog.

Deleting VMs

Before You Begin

- Create and deploy an existing application container with one or more VMs.

- Power off the VMs you want to delete.

-
- Step 1** On the menu bar, choose **Policies > Application Containers**.
- Step 2** Choose an application container.
- Step 3** Click **Decommission Container**.
- Step 4** From the list of VMs, select the VM or VMs that you want to delete.
Note The list shows only VMs that are powered off.
- Step 5** Click **Submit**.
- Step 6** In the confirmation dialog, click **OK**.
 The VM is deleted from the selected container.
-

Accessing a VM Console

You can view the console on your VMs if you have the proper access rights.

Before You Begin

Enable access for VMs that you want to access using VNC. See [Enabling VNC Console Access](#), on page 17.

-
- Step 1** On the menu bar, choose **Policies > Application Containers**.
- Step 2** Click the **Application Container** tab.
- Step 3** Choose a container.
- Step 4** Click **Open Console** action. The **Access Console** dialog box appears.
- Step 5** From the **Select VM** drop-down list, choose a VM.
- Step 6** Click **Submit**. A console of the selected VM opens in a new browser window.
Note For automatic configuration of a VNC console on a container, you must provide permission by checking the **Enable VNC Based Console Access** check box when you create the application container template.
-

Enabling VNC Console Access

To enable console access on an individual VM, follow this procedure:

-
- Step 1** Select **Virtual > Compute**.
 - Step 2** Select the **VM** tab.
 - Step 3** Select the VM for which to enable console access.
 - Step 4** Select the **Configure VNC** action.
 - Step 5** When the **Configure VNC Request** dialog comes up, click **Submit**.
-

Cloning an Existing Container

As an administrator you can clone an existing container. Cloning transfers all of the settings and configuration data from the VMs that are contained in the original container.

-
- Step 1** On the menu bar, choose **Policies > Application Containers**.
 - Step 2** Click the **Application Containers** tab.
 - Step 3** Choose a container.
 - Step 4** Click the **Clone Container** icon. Complete the following fields:

| Name | Description |
|-----------------------|---|
| Container Name field | The name of the container. |
| Container Label field | The container label. This label should be unique. |

- Step 5** Click **Submit**.
-

Managing Container Power

Administrators have the ability to disable and enable the power to containers.

-
- Step 1** Choose **Policies > Application Containers**.
 - Step 2** Click the **Application Containers** tab.
 - Step 3** Choose a container.
 - Step 4** Click the **Power On Container** icon or **Power Off Container** icon.
 - Step 5** From the list, select the VMs to power on or off.
 - Step 6** Click **Submit**.
 - Step 7** On the confirmation dialog, click **OK**.
-

Deleting Application Containers

When you delete a container, you also delete the resources that are provisioned for that container. When the **delete container** action is initiated, Cisco UCS Director rolls back the application container setup. A service request is created, reflecting the rollback status.

-
- Step 1** On the menu bar, choose **Policies > Application Containers**.
 - Step 2** Click the **Application Containers** tab.
 - Step 3** Choose a container.
 - Step 4** Click the **Delete Container** icon.
Note If you choose to delete an application container with associated L4-L7 services, the L4-L7 services are deleted as well.
 If L4-L7 services are associated with the application container, you are prompted to confirm that you want to delete all resources provisioned for the container.
 - Step 5** If prompted, and if you want to delete the L4-L7 services along with the container, click **Submit**.
 - Step 6** Click **Submit**. A notice appears confirming that a service request has been generated.
 - Step 7** Choose **Organization > Service Request**.
 - Step 8** Click the **Service Request** tab.
 - Step 9** Choose the deletion service request.
 - Step 10** Click **View Details**.
-

Viewing Reports

You can generate summary reports, a detailed report with credentials, and a detailed report without credentials for each container.

-
- Step 1** On the menu bar, choose **Policies > Application Containers**.
- Step 2** Click the **Application Container** tab.
- Step 3** Choose a container or right-click on the container to bring up all of the actions.
- Step 4** Click **View Reports**.
- Step 5** From the **Select Report Type** drop-down list, choose the report you want to view. Reports "with Credentials" show passwords in plain text. Reports "without Credentials" hide passwords in the report. Reports for Administrators contain policy information not given in reports for Self-Service Users.
- A dialog appears with a report detailing the application container.
- Note** Any of the reports, in the report header, shows the ID of the Service Request used to create the container.
-

Viewing Application Container Information

The application container dashboard displays complete information for the APIC application container. There are various tabs you can view for a selected APIC application container.

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- Step 1** On the menu bar, choose **Policies > Application Containers**.
- Step 2** Click the **Application Containers** tab, and choose an APIC application container.
- Step 3** Click **View Details**.
- Step 4** You can view the following information:

| Tab | Description |
|---------|--|
| Summary | <ul style="list-style-type: none"> • Container—This pane displays the summary for the application container, such as, name of the container, group, and tenant, number of tiers, number of BMs and VMs per tier, and resource limits for the container. • Tier—This pane displays the summary for the tier, such as, number of VMs and BMs, and Virtual Routing and Forwarding (VRF) instance. |

| Tab | Description |
|-------------------------|---|
| Virtual Machines | <p>Displays the VMs provisioned for the application container. This tab displays the VM name, VM Type, status, IP address, Guest OS, and the time when the VM was provisioned.</p> <p>Note Specific naming convention is followed for the VM names for the following actions:</p> <ul style="list-style-type: none"> • Application provisioning for private network—<VM name specified during container creation time><index of VMs per tier> • Adding VMs to an APIC container—<VM name specified in Add VM action><index of VMs per tier> |
| Bare Metals | <p>Baremetals are physical servers provisioned as part of the application container. This tab displays the baremetal name, OS type, and Service Request ID for each baremetal.</p> |
| Tier Mapping | <p>Tiers correspond to the networks you defined when you created the application container template. Tiers in a typical application include web, application, and database. The tiers contain VMs and BMs. This tab displays the VMs and BMs contained in each tier, along with its name in an IP address.</p> |
| L4 L7 Services | <p>Displays the information about L4-L7 services, including service request ID, service name, IP address, service type, device type, and consumer and provider tiers.</p> <p>Note If you drill down the service name, you can view the list of real servers.</p> |
| Contracts | <p>Displays the information about the contracts that define the rule for communication in multi-tier applications. You can drill down each contract to view the security rules.</p> |