



Configuring Cisco Unified Fabric Automation

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Summary of Steps for Configuring Cisco Unified Fabric Automation

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- Step 1** Add the Cisco Unified Fabric Automation organization account through **Administration > Physical Accounts > Multi-Domain Managers**, as shown in [Creating a Cisco Unified Fabric Automation Organization Account](#), on page 5.
- Make sure you specify a valid range of segments IDs to be used by Cisco UCS Director. To update the SegmentID Range, choose **DCNM Accounts>Fabric SegmentID Range Management** and highlight the desired DCNM account. The segment id range **Update** button is available when the DCNM account is highlighted.
- Step 2** Add a vCenter cloud account through **Administration > Virtual Accounts > Add**).
- Step 3** If used, add the Cisco Nexus 1000V account (**Administration >Physical Accounts > Managed Network Elements > Add Network Element**).
- Step 4** Check the vCenter cloud inventory under vCenter and verify that you can see the data. It may take a few minutes after the vCenter is added for the inventory to appear.
- Step 5** Create several vDCs. You also have to create system, compute, storage, and network policies (refer to the base Cisco UCS Director, Release 4.1 documentation).
- Step 6** On the menu bar, choose **Physical > Network > Multi-domain Managers > DCNM Accounts** and go to the **Fabric vDC Switch Association Policy** tab. Enable vDC switches for a particular Fabric organization account.
- With the above steps completed, you can now perform the basic administrative Fabric organization tasks such as:
- Create a group (tenant).
 - Create an organization for a group.
 - Create a partition within an organization.
 - Create a network.
 - Create workflows using the Fabric organization orchestration tasks (**Physical Network Tasks > Cisco Tasks** folder). You can also import sample workflows which are included with the Cisco UCS Director Orchestrator.
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About Cloud Accounts

A cloud account is a type of virtual account. Each cloud account represents a single cloud in a supported hypervisor, such as VMware or Hyper-V, or a PowerShell agent.

After you add a cloud account, Cisco UCS Director automatically discovers all existing virtual machines (VMs) and images in the newly added cloud account. Typically, the discovery process takes about five minutes.

Creating a Cloud

Step 1 On the menu bar, choose **Administration > Virtual Accounts**.

Step 2 Choose the **Virtual Accounts** tab.

Step 3 Click **Add (+)**.

Step 4 From the **Cloud Type** drop-down list in the **Add Cloud** dialog box, choose a cloud type.

Step 5 In the **Add Cloud** dialog box, complete the following fields:

Name	Description
Cloud Type drop-down list	Choose VMware . The following fields are displayed when VMware is chosen. Other cloud types display fields that are specific to that cloud type.
Cloud Name field	The cloud name. Note Each cloud requires a unique name in Cisco UCS Director. Once a cloud has been added, all reports refer to the cloud using the Cloud Name. Also, single quote characters are not allowed in Cloud Name field (for example, Ven's vCenter).
Server Address field	The vCenter server address.
Server User ID field	The vCenter server username.
Server Password field	The vCenter server password.
Server Access Port field	The server port number.
VMware Datacenter field	The pod name on the vCenter account. This name allows you to discover, monitor and manage the specified pod's resource. Leave the field blank if the entire vCenter account is managed by Cisco UCS Director.
Server Access URL	The URL for server access.
Description field	The description of the cloud.
Contact Email field	The contact email address for the cloud.
Location field	The location.
Pod drop-down list	Choose the converged infrastructure pod. By choosing a pod name, the VMware cloud account appears in the converged infrastructure stack.
Service Provider field	The service provider's name.

Step 6 Click **Add**.

Configuring a Cisco Nexus 1000V Switch

As part of the configuration process you must identify and configure a Cisco Nexus 1000 switch for use within your Cisco Unified Fabric Automation network.



Note This step is optional if you are using a Cisco Nexus 1000V.

Before You Begin

You must have a Cisco DCNM account and a vCenter account. You must have access to a Cisco Nexus 1000V switch.

Adding a Network Element

Step 1 On the menu bar, choose **Administration > Physical Accounts**.

Step 2 Choose the **Managed Network Elements** tab.

Step 3 Click **Add Network Element** and complete the following fields:

Name	Description
Pod drop-down list	Choose the pod to which the network belongs.
Device Category drop-down list	Choose the device category for this network element.
Device IP field	The IP address of this device.
Protocol drop-down list	Choose the protocol to be used. This can be either telnet or ssh .
Port field	The port to use.
Login field	The login name.
Password field	The password associated with the login name.
Enable Password field	The enable password for this network element.

Step 4 Click **Submit**.

Creating a Cisco Unified Fabric Automation Organization Account

Make sure you specify a valid range of segments IDs to be used by Cisco UCS Director. To update the SegmentID Range, choose **DCNM Accounts>Fabric SegmentID Range Management** and highlight the desired DCNM account. The segment id range **Update** button is available when the DCNM account is highlighted.

The Segment ID Range Specified in the creation of the DCNM Account should be different from the ranges present in the L2 Segment ID Range for DCNM Version 7.1(x). Earlier DCNM versions can be given any valid range.



Note Cisco Fabric Organization networks are not tied to any specific pod.

Step 1 On the menu bar, choose **Administration > Physical Account**.

Step 2 Click the **Multi-Domain Managers** tab.

Step 3 Click (+) **Add**.

Step 4 In the **Add Account** dialog box, choose **DCNM** from the drop-down list to create an account for use in Digital Fabric Automation networks.
PNSC is not used in UCSD unless required for specific items, such as VSG deployment.

Step 5 Click **Submit**

Step 6 In the **Multi-Domain Manager Account** dialog box, complete the following fields. All other field are information only.

Name	Description
Account Name field	The multi-domain account name.
Description field	The description of the multi-domain.
Server Address field	The IP address of the DCNM server.
User ID field	The administrator's or root user's user ID.
Password field	The administrator's user password.

Name	Description
Transport Type drop-down list	Choose a transport type: <ul style="list-style-type: none"> • HTTP — Standard protocol. • HTTPS — Standard and secure protocol. This is the default selection for DFA Organization networks.
Port field	The port number (based upon the transport type).
SegmentID Pool field	The selected segment ID pool. The selected range should not be used by any other Orchestrator.
VlanID Pool field	The selected Vlan ID pool. The range for Fabric Network Creation is 2 - 4093.
Contact Email field	The email address of the administrator or person responsible for this account.
Location field	The location of the device associated with the account.

- Step 7** Click **Submit**.
- Step 8** Choose the newly created account.
- Step 9** Click **Test Connection** to verify that the account is operational.

Creating a Cisco Unified Fabric Automation Organization



Note You can also use workflow tasks to create a Cisco Unified Fabric Automation organization, partition, or network.

- Step 1** On the menu bar, choose **Physical > Network**.
- Step 2** In the left pane, click the **Multi-domain Manager** entry.
- Step 3** Double-click the **DCNM Accounts** entry.
Along with the double-click, you can select the arrow button, double-click on the DCNM Account created, and see the Fabric Organization tab.
- Step 4** Click the **Fabric Organization** tab.
- Step 5** Click **Create Organization**.
- Step 6** In the **Create Fabric Organization** dialog box, complete the following fields:

Name	Description
Organization Name field	The name of the organization.
Description field	The description of the organization.
Orchestration Source field	The name of the Cisco UCS Director server (used to input the source field in DCNM when an organization is created).
Select Group drop-down list	Choose a user group. Note A user group can have only one Fabric organization.

Step 7 Click **Add**.

Associating vDCs

Before You Begin

Create a Fabric vDC, Fabric account and a Fabric switch.



Note You can also associate Fabric vDC switch association through an action task (**Physical > Network > DCNM Accounts > Fabric VDC Switch Association Policy > Add**).

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

Step 2 In the **Orchestration** pane, click the **Workflows** tab.

Step 3 On the left pane of the **WorkFlows** tab, choose the workflow folder and click the arrow next to the folder to show the workflows.

Step 4 Double-click the **Create VDC Fabric Switch Association** workflow. Workflow Designer appears.

Step 5 Click the **Edit Workflow Properties** button.

Step 6 In the **Edit Workflow Details** pane, complete the following fields:

Name	Description
Workflow Name field	The name of the workflow.
Description field	The description of the workflow.
Workflow Context drop-down list	Choose a workflow context.
Save as Compound Task check box	If checked, saves workflow as a compound task.

Name	Description
Place in New Folder check box	If checked, place workflow in new folder.
Select Folder drop-down list	Choose a folder to store the workflow.

- Step 7** In the **Modify User Inputs** pane, click on the (+) **Add** button to locate and add a Fabric Account, Fabric Switch, and a Fabric vDC.
- Step 8** Click **Submit**.
- Step 9** Click the **Execute Now** button.
- Step 10** Examine the **Submit Workflow** dialog box to confirm the proper inputs were selected.
- Step 11** Click **Submit**.

Creating a Fabric Partition

You can create multiple (Level 2 network) fabric partitions. Each network can have associated network pools.

- Step 1** On the menu bar, choose **Physical > Network**.
- Step 2** In the left pane, click the **Multi-domain Manager** entry.
- Step 3** Double-click the **DCNM Accounts** entry.
Along with the double-click, you can select the arrow button, double-click on the DCNM Account created, and see the Fabric Partition tab.
- Step 4** Click the **Fabric Partition** tab.
- Step 5** Click **Create Partition**.
- Step 6** In the **Create Partition** dialog box, complete the following fields:

Name	Description
Organization Name drop-down list	Choose an organization.
Partition Name field	The name of the partition.
Description field	The description of the partition.
Fabric Account field	Fabric account name.
DCI ID	
Extend the Partition across the Fabric check box	Placing a check mark in this box will extend the partition across the fabric

Name	Description
Service Node IP Address field	IP address of service node.
DNS Server field	IP address of DNS server.
Secondary DNS Server field	IP address of the secondary DNS server.
Multicast Group Address field	
Profile Name drop-down list	Select the Profile Name from the drop-down list
Profile Parameters section	
Border LeafRt field	Only visible if there is a Profile Name selected

Step 7 Click Add.

Creating a Cisco Unified Fabric Automation Network

Each fabric network can have associated network pools.

Step 1 On the menu bar, choose **Physical > Network**.

Step 2 In the left pane, click the **Multi-domain Manager** entry.

Step 3 Double-click the **DCNM Accounts** entry.

Along with the double-click, you can select the arrow button, double-click on the DCNM Account created, and see the Fabric Network tab.

Step 4 Click the **Fabric Network** tab.

Step 5 Click **Create Network**.

Step 6 In the **Create Fabric Network** dialog box, complete the following fields:

Name	Description
Fabric Account drop-down list	Choose a Fabric Account from the drop-down list.
Organization Name drop-down list	Choose an organization from the drop-down list
Partition Name drop-down list	Choose a partition from the drop-down list.
Network Name field	Name of the new network.
Multicast Group Address field	

Name	Description
Network Role drop-down list	Choose a network role from the drop-down list.
Description field	Description of the network.
Gateway field	Network gateway address.
Subnet Mask field	Network subnet address.
Switch Type drop-down list	Choose the switch type.
Select Switches drop-down list	Choose a switch to enable association.
Profile Name drop-down list	Choose a profile name.
Profile Parameters section	
DHCP Server Address field	IP address of the DHCP server.
vrfDhcp field	
mtuValue field	
dhcpServerV6Address field	
vrfv6Dhcp field	
Enable IPv6 check box	If checked, enables the use of IPv6 addresses.
Gateway IPv6 Address field	Visible if Enable IPv6 box is checked.
Prefix Length field	Visible if Enable IPv6 box is checked.
<i>Network ID section</i>	
Segment Id field	Segment Id of network. Not visible if the AutoSelect check box is selected.
AutoSelect (72000-78000) check box	If checked, allows for segment to be dynamically selected (from within a 72000 - 78000 range). This value is the value chosen when the administrator added the Fabric account to Cisco UCS Director.
Mobility Domain ID select button	Click the select button to choose the Mobility Domain ID. If the DCNM Version is 7.0(2), then a text box will be selected.

Name	Description
AutoSelect Mobility Domain ID check box	If checked, allows the Mobility Domain ID to be autoselected.
VLAN ID field	Enter a Vlan ID.
<i>DHCP Scope section</i>	
Enable DHCP check box	If checked, enables the use of a DHCP server.
IP Range field	Range of IP addresses for this network that the assigned DHCP server can lease.
<i>Service Configuration Parameters</i>	
Start IP field	Starting IP address of service.
End IP field	The range of static IP addresses that can be assigned to specific important service devices.
Secondary Gateway IP Address field	IP address of secondary gateway server (Cisco DCNM).

Step 7 Click Add.

Examining the Fabric SegmentID Range

Each network can have an associated segment ID range. Each network has an account ID. Cisco Unified Fabric Automation assigns a segment ID range to one Orchestrator. OpenStack can also talk to Cisco Data Center Network Manager (DCNM). When Cisco UCS Director Orchestrator creates a network, it uses the segments listed in these segment ID ranges.

Step 1 On the menu bar, choose **Physical > Network**.

Step 2 In the left pane, click the **Multi-domain Manager** entry.

Step 3 Double-click the **DCNM Accounts** entry.

Along with the double-click, you can select the arrow button, double-click on the DCNM Account created, and see the **Fabric SegmentID Range Management** tab.

Step 4 Click the **Fabric SegmentID Range Management** tab. The Account Name, Orchestrator Name, and SegmentID Range are displayed.

Examining a Cisco Unified Fabric Automation Network's Segment Usage

This view allows you to see who is using which network ID, segment pool, segment ID, and so on.

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- Step 1** On the menu bar, choose **Physical > Network**.
 - Step 2** Click the **Multi-domain Manager** entry in the left-hand column.
 - Step 3** Double-click the **DCNM Accounts** entry.
Along with the double-click, you can select the arrow button, double-click on the DCNM Account created, and see the Fabric Network Segment Usage tab.
 - Step 4** Click the **Fabric Network Segment Usage** tab. The details of segment usage are displayed.
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Adding a Cisco Unified Fabric Automation Network to a Cisco Unified Fabric Automation Partition



Note Do not make the network available to all vCenters. You must enable the Cisco Cisco Unified Fabric Automation on a particular switch.

Before You Begin

Create a partition and ensure that you can access Cisco Prime DCNM and a vCenter account. You also need information about the Cisco Nexus 1000V switch to be used with this network. Whenever you create a network, you can create multiple profiles. See the **Profile Name** drop-down list to choose a profile and how it will be used (for example, the **defaultNetworkIpv4EfProfile** selection). The available profiles are available through Cisco DCNM.

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- Step 1** On the menu bar, choose **Physical > Network**.
 - Step 2** In the left pane, click the **Multi-domain Manager** entry.
 - Step 3** Double-click the **DCNM Accounts** entry.
 - Step 4** Click the **Fabric Partition** tab.
 - Step 5** Double-click on a partition. The **Fabric Network** tab appears.
 - Step 6** Click **Create Network**.
 - Step 7** In the **Create Fabric Network** dialog box, complete the following fields:

Name	Description
Network Name field	The network name.

Name	Description
Multicast Group Address field	Multicast group address value.
Network Role drop-down list	Choose a Host Network from the drop-down list.
Description field	The description of the network.
Gateway field	The name of the gateway server.
Subnet Mask field	The network's subnet mask.
Switch Type drop-down list	Choose a switch type (dvSwitch or vSwitch). Anyone accessing this switch has access to the Cisco DFA.
Profile Name drop-down list	Choose a profile from the drop-down list.
<i>Profile Parameters section</i>	
DHCP Server Address field	IP address of the DHCP server.
vrfDhcp field	
mtuValue field	specify an mtu value between 1500 and 9216.
dhcpServerv6Address field	
vrfv6Dhcp field	
Enable IPv6 check box	If checked, enables the use of IPv6 addresses.
Gateway IPv6 Address field	IPv6 address field used by the gateway. Note This field is visible only if the Enable IPv6 check box is selected.
Prefix Length field	Prefix length used by the IPv6 address. Note This field is visible only if the Enable IPv6 check box is selected.
<i>Network Id section</i>	
Segment ID field	Segment Id in use by server. This must be a unique value for each network.
AutoSelect (50000-70000) check box	If checked, allows for segment to be dynamically selected (from within a 50000 - 70000 range).
Mobility Domain ID field	

Name	Description
AutoSelect Mobility Domain ID check box	If checked, automatically chooses the Mobility Domain ID.
<i>DHCP Scope section</i>	
Enable DHCP check box	If checked, enables DHCP for the network.
IP Range field	The IP range of the DHCP server.
<i>Service Configuration Parameters section</i>	
Start IP field	The starting IP address value (static range only).
End IP field	The ending IP address value (static range only).
Secondary Gateway field	

- Step 8** Click **Add**. Cisco UCS Director creates a port group on the vSwitch. Once the port group is available, you can create a VM. Any VM can use this port group. The Cisco Cisco Unified Fabric Automation network allows you to create network segments dynamically, which makes them visible to the dvSwitches and Cisco Nexus 1000V switches.

Creating a Cisco Unified Fabric Automation Network using vSwitches

Each Cisco Unified Fabric Automation network can have associated network pools. Creating a Cisco Unified Fabric Automation network using vSwitches and dvSwitches are very similar. However, vSwitches can be mapped to one network adapter or to multiple network adapters. vSwitches that have no associated network adapters can also be implemented as well.

- Step 1** On the menu bar, choose **Physical > Network**.
- Step 2** In the left pane, click the **Multi-domain Managers** entry.
- Step 3** Click the **DCNM Accounts** entry.
- Step 4** Choose the **Fabric Network** tab.
- Step 5** Click **Create Network**.
- Step 6** In the **Create Fabric Network** dialog box, complete the following fields:

Name	Description
Partition Name field	Choose a partition from the drop-down list.

Name	Description
Network Name field	Name of the new network.
Description field	Description of the network.
Gateway field	Network gateway address.
Subnet mask field	Network subnet address.
Switch Type drop-down list	Choose the vSwitches option from the drop-down list. When prompted, check the check box of a corresponding switch.
Select Switches drop-down list	Choose a switch.
Profile Name drop-down list	Choose a profile name.
<i>Profile Parameters section</i>	
DHCP Server Address field	IP address of the DHCP server.
Enable IPv6 check box	If checked, enables the use of IPv6 addresses.
Gateway IPv6 Address field	Gateway IPv6 address for DHCP server. Only visible when the Enable IPv6 check box is checked.
Prefix Length field	Prefix used for IPv6 addresses. Only visible when the Enable IPv6 check box is checked.
<i>Network ID section</i>	
Segment ID field	Segment ID of network. Not visible if the AutoSelect check box is selected. Note This field is not required when creating a network on a vSwitch or (VMWare) dvSwitch. The VDP protocol is not used and only a Vlan and mobility ID is required.
Mobility Domain ID select button	Click to choose a Mobility Domain ID from a list.
Mobility Domain ID check box	If checked, allows for the Mobility domain ID to be dynamically selected.
<i>DHCP Scope section</i>	
Enable DHCP check box	If checked, enables the use of a DHCP server.
IP Range field	IP range in use for the DHCP server.
<i>Service Configuration Parameters</i>	

Name	Description
Start IP field	Starting IP address of service.
End IP field	The range of static IP addresses that can be assigned to specific important service devices.
Secondary Gateway field	Secondary network gateway address.

Step 7 Click **Add**.

Creating a Fabric Network using dvSwitches

Each Fabric network can have associated network pools. Creating a Fabric network using vSwitches and dvSwitches are very similar. A dvSwitch acts like a global switch, enabling administrators to associate a single switch with all ESX or ESXi hosts in a datacenter, rather than configure a vSwitch for each individual host.

Step 1 On the menu bar, choose **Physical > Network**.

Step 2 In the left pane, click the **Multi-domain Managers** entry.

Step 3 Click the **DCNM Accounts** entry.

Step 4 Choose the **Fabric Network** tab.

Step 5 Click **Create Network**.

Step 6 In the **Create Fabric Network** dialog box, complete the following fields:

Name	Description
Partition Name field	Choose a partition from the drop-down list.
Network Name field	Name of the new network.
Description field	Description of the network.
Gateway field	Network gateway address.
Subnet mask field	Network subnet address.
Switch Type drop-down list	Choose the dvSwitches option from the drop-down list. When prompted, check the check box of a corresponding switch.
Select Switches drop-down list	Choose a switch.

Name	Description
Profile Name drop-down list	Choose a profile name.
<i>Profile Parameters section</i>	
DHCP Server Address field	IP address of the DHCP server.
Enable IPv6 check box	If checked, enables the use of IPv6 addresses.
Gateway IPv6 Address field	Gateway IPv6 address for DHCP server. Only visible when the Enable IPv6 check box is checked.
Prefix Length field	Prefix used for IPv6 addresses. Only visible when the Enable IPv6 check box is checked.
<i>Network ID section</i>	
Segment ID field	Segment ID of network. Not visible if the AutoSelect check box is selected. Note This field is not required when creating a network on a vSwitch or (VMWare) dvSwitch. The VDP protocol is not used and only Vlan and Mobility Domain ID are required.
Mobility Domain ID select button	Click to choose a Mobility Domain ID from a list.
AutoSelect Mobility Domain ID check box	If checked, allows for the Mobility domain ID to be dynamically selected.
<i>DHCP Scope section</i>	
Enable DHCP check box	If checked, enables the use of a DHCP server.
IP Range field	IP range in use for the DHCP server.
<i>Service Configuration Parameters</i>	
Start IP field	Starting IP address of service.
End IP field	The range of static IP addresses that can be assigned to specific important service devices.
Secondary Gateway field	Secondary network gateway address.

Step 7 Click Add.

Adding a Network Policy

Step 1 On the menu bar, choose **Policies > Virtual/Hypervisor Policies > Network**.

Step 2 Choose the **VMware Network Policy** tab.

Step 3 Click **Add (+)**.

Step 4 In the **Network Policy Information** dialog box, complete the following fields:

Name	Description
Policy Name field	The name of the network policy.
Policy Description field	The description of the network policy.
Cloud Name drop-down list	Choose the cloud account to which the policy applies.
Allow end user to select optional NICs check box	Check this check box if you want to provide vNICs selection during the creation of a service request-deployment configuration.
VM Networks field	Click + to add a new entry to the VM network.

Step 5 Click **Add (+)** in the VM Networks section to add and configure multiple vNICs. These vNICs are applicable to the VM that is provisioned using this policy.

Note To add or replace vNICs for provisioned or discovered VMs using VM actions, you must configure the vNICs.

Step 6 In the **Add Entry to VM Networks** dialog box, complete the following fields:

Name	Description
NIC Alias field	The name for the new NIC
Mandatory check box	<p>If the Allow end user to select optional NICs check box in the Network Policy Information dialog box was checked, this box is pre-selected. If the Network Policy Information dialog box was not selected, and this check box is not selected, then the NIC Alias field is optional.</p> <p>Note At least one of the NICs should have the Mandatory option selected. The NICs that have the Mandatory option selected are used in VM provisioning and there will be no option for the user during VM service request creation.</p>
Allow end user to choose portgroups check box	Check the check box to allow the end user to choose port groups during provisioning.

Name	Description
Show policy level portgroups check box	Checking this check box along with the Allow end user to choose portgroups check box lists all the selected portgroups of NICs in the policy.
Copy Adapter from Template check box	Check the check box if you do not need custom settings. Clear this check box for custom settings. The Adapter Type drop-down list is not visible when you check this check box.
Allow the end user to override IP Address check box	Check the check box to allow users to override the IP address.
Adapter Type drop-down list	Choose the adapter type. Select this option if the user wants to have the same Adapter Type that is available in the template. Note This option is not visible if the Copy Adapter from Template option is chosen.

Step 7 Click **Add (+)** in the **Port Groups** section. The **Add Entry to Port Groups** dialog box appears.

Step 8 Click **Select** to choose the port group name.

Step 9 From the **Select IP Address Type** drop-down field, choose **DHCP** (default) or **Static**.

a) If you choose **Static**, you must choose **IP Pool Policy** (default) or **Inline IP Pool**.

If you choose **IP Pool Policy**, click **Select to choose a static IP pool**. In the **Select** dialog box, choose from the list of preconfigured static IP pool(s). If no preconfigured static IP pools exist, see Adding a Static IP Policy for more information.

b) If you choose **Inline IP Pool**, complete the following fields:

Name	Description
Static IP Pool field	The static IP pool. For example: 10.5.0.1 - 10.5.0.50, 10.5.0.100, 10.5.1.20-10.5.1.70
Subnet Mask field	The subnetwork mask for the pool. For example: 255.255.255.0
Gateway IP Address field	The IP address of the default gateway for this network.
Allow IP Overlap drop-down list	Indicate whether IP overlap is allowed or not. By default, overlapping IP is not enabled. Enabling overlapping of IP implies the following: <ul style="list-style-type: none"> You can create an IP pool and have IP addresses overlap within that pool. You can create two static IP pools and have the IP addresses overlap between the pools

Name	Description
Scope drop-down list	<p>The scope of the IP pool overlap. The options are:</p> <ul style="list-style-type: none"> • MSP Organization This option is visible only if you have enabled MSP. • Group/Customer Organization • Container <p>Note This option is visible only if you select Yes in the Allow IP Overlap drop-down list.</p>
User Group ID field	Choose Select to check the check box of a user group. All the user groups created in the system are displayed.
Container ID field	Choose Select to check the check box of a container.

- Step 10** Check the **IPv6** check box to configure IPv6.
You must configure the identical fields that you specified for IPv4 configuration.
- Step 11** Click **Submit**.
- Step 12** Click **Submit** in the **Add Entry to VM Networks** dialog box.
- Step 13** Click **Submit** in the **Network Policy Information** dialog box.

Choosing a Fabric Port Selector

Before You Begin

Create a vDC, Fabric account and a Fabric switch.

- Step 1** On the menu bar, choose **Policies > Orchestration**.
- Step 2** In the **Orchestration** pane, click the **Workflows** tab.
- Step 3** On the left pane of the **WorkFlows** tab, choose the workflow folder and click the arrow next to the folder to show the workflows.
- Step 4** Double-click the **FabricPortGroupSelector** task.
Note This task will take Fabric Port Group or any port group as input and provide the output as well.
- Step 5** In the **Edit Task (FabricPortGroupSelector)** pane, complete the following fields:

Name	Description
Task Name field	The name of the task.

Name	Description
Task Category drop-down list	The Cisco Fabric Tasks category is chosen.
Task Type drop-down list	The FabricPortGroupSelector type is chosen.
Comment field	Comments that pertain to this task.
Retry Execution check box	If checked, retries the workflow execution.

Step 6 Click **Next**.

Step 7 In the **User Input Mapping** pane, complete the following fields:

Name	Description
Manage Workflow User Inputs field	The name of the task.
<i>Port Group section</i>	
Map to User Input check box	If checked, maps port group to user input.
User Input drop-down list	The Port Group user input type is chosen.
<i>Fabric Port Group section</i>	
Map to User Input check box	If checked, maps port group to user input.

Step 8 Click **Next**.

Step 9 In the **Task Inputs** pane, complete the following fields.

Name	Description
Revalidate button	Binds all the necessary parameters identified in this task to the environment.
Fabric Port Group button	Click the Select... button to choose a DFA port group.

Step 10 Click **Submit**.

Step 11 Click the **Execute Now** button.

Step 12 Examine the **Submit Workflow** dialog box to confirm the proper inputs were selected.

Step 13 Click **Submit**.

About Multiple Disk VM Provisioning in a Cisco Unified Fabric Automation Network

Cisco UCS Director supports virtual machine (VM) provisioning of multiple disks from a template. You can configure VM disk provisioning on a preferred single datastore or multiple datastores in a Cisco Unified Fabric Automation network. You can also configure individual disk policies for each additional disk in a template.

Cisco UCS Director classifies the disks into the following categories:

- System
- Data
- Database
- Swap
- Log



Note

The disk categories that are defined by Cisco UCS Director are for disk labeling only. For specific information on VM provisioning refer to the [UCS Director Administration Guide](#).
