



Configuring a Service Profile with VM-FEX

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Configuring Dynamic vNIC Connection Policies

Dynamic vNIC Connection Policy

The dynamic vNIC connection policy determines how the connectivity between VMs and dynamic vNICs is configured. This policy is required for Cisco UCS domains that include servers with VIC adapters on which you have installed VMs and configured dynamic vNICs.

Ethernet Adapter Policy

Each dynamic vNIC connection policy includes an Ethernet adapter policy and designates the number of vNICs that can be configured for any server associated with a service profile that includes the policy.

Server Migration

**Note**

If you migrate a server that is configured with dynamic vNICs, the dynamic interface used by the vNICs fails and notifies you of that failure.

When the server comes back up, assigns new dynamic vNICs to the server. If you are monitoring traffic on the dynamic vNIC, you must reconfigure the monitoring source.

Creating a Dynamic vNIC Connection Policy

SUMMARY STEPS

1. In the **Navigation** pane, click **LAN**.
2. Expand **LAN > Policies**.
3. Expand the node for the organization where you want to create the policy.
4. Right-click the **Dynamic vNIC Connection Policies** node and choose **Create Dynamic vNIC Connection Policy**.
5. In the **Create Dynamic vNIC Connection Policy** dialog box, complete the following fields:
6. Click **OK**.
7. If a confirmation dialog box appears, click **Yes**.

DETAILED STEPS

Step 1 In the **Navigation** pane, click **LAN**.

Step 2 Expand **LAN > Policies**.

Step 3 Expand the node for the organization where you want to create the policy.
If the system does not include multitenancy, expand the **root** node.

Step 4 Right-click the **Dynamic vNIC Connection Policies** node and choose **Create Dynamic vNIC Connection Policy**.

Step 5 In the **Create Dynamic vNIC Connection Policy** dialog box, complete the following fields:

Name	Description
Name field	<p>The name of the policy.</p> <p>This name can be between 1 and 16 alphanumeric characters. You cannot use spaces or any special characters other than - (hyphen), _ (underscore), : (colon), and . (period), and you cannot change this name after the object is saved.</p> <p>Note Do not specify "default" as the value for the dynamic vNIC connection policy name. Cisco UCS Manager automatically resolves any empty policy references to "default". Any service profiles or service profile templates with only static vNICs defined will automatically reference the policy "default" when it is present. If you specify "default" for the dynamic vNIC connection policy name, then unexpected dynamic vNICs might be created on those service profiles or service profile templates.</p>
Description field	<p>A description of the policy. Cisco recommends including information about where and when to use the policy.</p> <p>Enter up to 256 characters. You can use any characters or spaces except ` (accent mark), \ (backslash), ^ (carat), " (double quote), = (equal sign), > (greater than), < (less than), or ' (single quote).</p>

Name	Description
Number of Dynamic vNICs field	<p>The number of dynamic vNICs that this policy affects.</p> <p>Enter an integer between 0 and 256. The default is 54.</p> <p>Note Components of your system might limit this number to fewer than 256 vNICs.</p>
Adapter Policy drop-down list	<p>The adapter profile associated with this policy. The profile must already exist to be included in the drop-down list.</p>
Protection field	<p>Dynamic vNICs are always protected in Cisco UCS, but this field allows you to select a preferred fabric, if any. You can choose one of the following:</p> <ul style="list-style-type: none"> • Protected Pref A—Cisco UCS attempts to use fabric A but fails over to fabric B if necessary • Protected Pref B—Cisco UCS attempts to use fabric B but fails over to fabric A if necessary • Protected—Cisco UCS uses whichever fabric is available

Step 6 Click **OK**.

Step 7 If a confirmation dialog box appears, click **Yes**.

Changing a Dynamic vNIC Connection Policy

SUMMARY STEPS

1. In the **Navigation** pane, click **LAN**.
2. Expand **LAN > Policies**.
3. Expand the node for the organization that contains the policy that you want to change.
4. Expand the **Dynamic vNIC Connection Policies** node and click the policy that you want to change.
5. In the **Work** pane, click the **General** tab.
6. Change one or more of the following fields:
7. Click **Save Changes**.
8. If a confirmation dialog box displays, click **Yes**.

DETAILED STEPS

- Step 1** In the **Navigation** pane, click **LAN**.
- Step 2** Expand **LAN > Policies**.
- Step 3** Expand the node for the organization that contains the policy that you want to change.
If the system does not include multitenancy, expand the **root** node.
- Step 4** Expand the **Dynamic vNIC Connection Policies** node and click the policy that you want to change.
- Step 5** In the **Work** pane, click the **General** tab.
- Step 6** Change one or more of the following fields:

Name	Description
Description field	A description of the policy. Cisco recommends including information about where and when to use the policy. Enter up to 256 characters. You can use any characters or spaces except ` (accent mark), \ (backslash), ^ (carat), " (double quote), = (equal sign), > (greater than), < (less than), or ' (single quote).
Number of Dynamic vNICs field	The number of dynamic vNICs that this policy affects. Enter an integer between 0 and 256. The default is 54. Note Components of your system might limit this number to fewer than 256 vNICs.
Adapter Policy drop-down list	The adapter profile associated with this policy. The profile must already exist to be included in the drop-down list.

You cannot change the other properties of the policy, such as the **Name** field.

- Step 7** Click **Save Changes**.
- Step 8** If a confirmation dialog box displays, click **Yes**.

Deleting a Dynamic vNIC Connection Policy

You can delete a dynamic vNIC connection policy.

SUMMARY STEPS

1. In the **Navigation** pane, click **LAN**.
2. Expand **LAN > Policies > Organization_Name**.
3. Expand the **Dynamic vNIC Connection Policies** node.
4. Right-click the policy that you want to delete and choose **Delete**.
5. If a confirmation dialog box displays, click **Yes**.

DETAILED STEPS

- Step 1** In the **Navigation** pane, click **LAN**.
 - Step 2** Expand **LAN > Policies > *Organization_Name***.
 - Step 3** Expand the **Dynamic vNIC Connection Policies** node.
 - Step 4** Right-click the policy that you want to delete and choose **Delete**.
 - Step 5** If a confirmation dialog box displays, click **Yes**.
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Viewing Dynamic vNIC Properties in a VM

You can view dynamic vNIC properties in a VM.

Before You Begin

The VM must be operational.

SUMMARY STEPS

1. In the **Navigation** pane, click **VM**.
2. On the VM tab, expand **All**.
3. Expand **Virtual Machines**.
4. Expand the virtual machine that contains the dynamic vNIC.
5. Choose the dynamic vNIC.
6. In the **Work** pane, click the **General** tab.

DETAILED STEPS

- Step 1** In the **Navigation** pane, click **VM**.
 - Step 2** On the VM tab, expand **All**.
 - Step 3** Expand **Virtual Machines**.
 - Step 4** Expand the virtual machine that contains the dynamic vNIC.
 - Step 5** Choose the dynamic vNIC.
 - Step 6** In the **Work** pane, click the **General** tab.
In the **Properties** area, the vNIC properties appear.
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