Managing Virtual Device Contexts

This chapter contains the following sections:

About VDCs

Virtual device contexts (VDCs) allow switches to be virtualized at the device level. Each configured VDC presents itself as a unique device to connected users under that physical switch. The VDC runs as a separate logical entity within the switch. It maintains its own unique set of running software processes, has its own configuration, and is managed by a separate administrator.

In Cisco UCS Director, you can manage VDCs on the following Cisco network devices:

- Cisco Nexus 7000 Series switches

Note For more detailed information about VDCs and configuration guidelines for VDCs, see the Cisco NX-OS Software Configuration Guides.

Creating a VDC

You can create a VDC for a Cisco Nexus 7000 Series switch.

Step 1   Choose **Physical** > **Network**.

Step 2   On the **Network** page, choose the pod.

Step 3   Expand the pod to select the Cisco Nexus 7000 Series switch and click **VDC**.

Step 4   Click **Create VDC**.

Step 5   In the **Create VDC** screen, complete the required fields, including the following:

Name	Description
VDC Name field	The name of the VDC.
Module Type field	The name of the module type. For example, F2e Series.
HA Policy check box	Check this check box to enable the high-availability (HA) policy for the switch when an unrecoverable VDC fault occurs.
VDC Number field	The VDC number. VDC number 1 is reserved for the default VDC. The nondefault VDC numbers are from 2 to 9.
VDC Password field	The VDC administrator user account password.
VDC Template Name drop-down list	Choose the VDC template name. VDC resource templates set the minimum and maximum limits for shared physical device resources when you create the VDC.
Select VDC Type drop-down list	Choose the VDC type.
Copy Running configuration to Startup configuration check box	Check this check box to copy the running VDC configuration to the startup configuration.

Step 6   Click **Submit**.

Allocating a Port to a VDC

You can assign a port to a VDC that belongs to a Cisco Nexus 7000 Series switch.

Before You Begin

You must create a virtual device context (VDC) on a Cisco Nexus 7000 Series switch.

Step 1   Choose **Physical** > **Network**.

Step 2   On the **Network** page, choose the pod.

Step 3   Select the Cisco Nexus 7000 Series switch and click **VDC**.

Step 4   Select the VDC to which you want to assign a port.

Step 5   Click **Assign Port to VDC**.

Step 6   In the **Allocate Port VDC** screen, complete the required fields, including the following:

Name	Description
VDC Name field	The name of the VDC.
Select Port button	Click **Select**. In the **Select Items** dialog box, choose the port to assign to the VDC and click **Select**.
Copy Running configuration to Startup configuration check box	Check this check box to copy the running VDC configuration to the startup configuration.

Step 7   Click **Submit**.

Removing a Port from a VDC

You can remove a port belonging to a virtual device context (VDC) on a Cisco Nexus 7000 Series switch.

Step 1   Choose **Physical** > **Network**.

Step 2   On the **Network** page, choose the pod.

Step 3   Expand the pod to select the Cisco Nexus 7000 Series switch and click **VDC**.

Step 4   Select the VDC and click **Remove Port from VDC**.

Step 5   In the **Remove VDC** screen, complete the following fields:

Name	Description
VDC Name field	The name of the VDC.
Select Port button	Choose the port that you want to remove from the VDC.
Copy Running configuration to Startup configuration check box	Check this check box to copy the running VDC configuration to the startup configuration.

Step 6   Click **Submit**.

Removing a VDC

Step 1   Choose **Physical** > **Network**.

Step 2   On the **Network** page, choose the pod.

Step 3   Expand the pod to select the Cisco Nexus 7000 Series switch and click **VDC**.

Step 4   Select the VDC that you want to remove.

Step 5   Click **Remove VDC**.
You can alternatively choose commands by clicking the down-arrow icon.

Step 6   In the **Remove VDC** screen, complete the following field:

Name	Description
Copy Running configuration to Startup configuration check box	Check this check box to copy the running configuration to the startup configuration.

Step 7   Click **Submit**.