



Cisco DCNM Virtual Device Context Quick Start

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Cisco DCNM Virtual Device Context Quick Start

This document describes the procedure for getting started with virtual device contexts (VDCs) on a Cisco NX-OS device using Cisco Data Center Network Manager (DCNM).

Introduction to VDCs

VDCs partition a single physical device into multiple logical devices that provide fault isolation, management isolation, address allocation isolation, service differentiation domains, and adaptive resource management. You can manage a VDC instance within a physical device independently. Each VDC appears as a unique device to the connected users. A VDC runs as a separate logical entity within the physical device, maintains its own unique set of running software processes, has its own configuration, and can be managed by a separate administrator.

For more information about working with VDCs using Cisco DCNM, see the .

Creating and Discovering a VDC

This section describes how to create and discover a VDC.

Procedure

- Step 1** From the Feature Selector pane, choose **Virtual Devices**.
- Step 2** From the Summary pane, click a physical device.
- Step 3** From the menu bar, choose **Virtual Devices > Create VDC** to display the VDC General Parameters dialog box.
- Step 4** In the Name field, enter the VDC name and click **Next**.
The Interface Membership dialog box appears
- Step 5** (Optional) Choose the interfaces that you want to allocate to the VDC.
Note When you allocate an interface to a VDC, the interface configuration is lost.
- Step 6** Click **Next**.
Note Cisco DCNM uses the default template resource limits.
The Resource Limit dialog box appears.
- Step 7** Click **Next**.
The Authentication dialog box appears.
- Step 8** In the Password field, enter the admin user password.
- Step 9** In the Confirm Password field, reenter the admin user password and click **Next**.

The Management of VDC dialog box appears.

- Step 10** In the Management Interface area, enter the IPv4 or IPv6 address information.
 - Step 11** In the SSH area, click the down arrows and choose the SSH key type and SSH key length.
 - Step 12** In the Default Gateway area, enter the default IPv4 or IPv6 gateway address.
 - Step 13** In the Discover the VDC area, uncheck the **Discover the VDC** check box to prevent automatic discovery.
 - Step 14** Click **Finish**.
 - Note** Creating a VDC can take a few minutes depending on the amount of resources that the device must reserve for the VDC.
 - Step 15** From the menu bar, choose **File > Deploy** to apply your changes to the device.
 - Step 16** From the Feature Selector pane, choose **DCNM Server Administration > Devices and Credentials**.
 - Step 17** From the menu bar, choose **Devices and Credentials > New Device**.
A new line appears in the Devices list.
 - Step 18** Click the cell under IP Address in the new line and enter the IP address of the VDC to discover.
 - Step 19** Double click the cell under User Credentials in the new line and click the down arrow to display the user credentials dialog. Enter the user credentials information and click **OK**.
 - Step 20** From the menu bar, choose **Devices and Credentials > Discover**.
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Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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