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Cisco DCNM Getting Started with Virtual Device Contexts, Release 4.0

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This document describes the procedure for getting started with virtual device contexts (VDCs) on an NX-OS device.

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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 DCNM, see the *Cisco DCNM Getting Started with Virtual Device Contexts, Release 4.0*.



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Creating and Discovering a VDC

This section describes how to create and discover a VDC.

To create and discover a VDC using the VDC Setup Wizard, follow these steps:

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- 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.
 - Step 5** Click **Next**.
The Interface Membership dialog box appears.
 - Step 6** (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 7** Click **Next**.
The Resource Limit dialog box appears.



Note DCNM uses the default template resource limits.

- Step 8** Click **Next**.
The Authentication dialog box appears.
- Step 9** In the Password field, enter the admin user password.
- Step 10** In the Confirm Password field, reenter the admin user password.
- Step 11** Click **Next**.
The Management of VDC dialog box appears.
- Step 12** In the Management Interface area, enter the IPv4 or IPv6 address information.
- Step 13** In the SSH area, click the down arrows and choose the SSH key type and SSS key length.
- Step 14** In the Default Gateway area, enter the default IPv4 or IPv6 gateway address.
- Step 15** In the Discover the VDC area, uncheck the Discover the VDC check box to prevent automatic discovery.
- Step 16** 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 17** From the menu bar, choose **File > Deploy** to apply your changes to the device.
- Step 18** From the Feature Selector pane, choose **DCNM Server Administration > Devices and Credentials**.
- Step 19** From the menu bar, choose **Devices and Credentials > New Device**.
A new line appears in the Devices list.

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- Step 20** Click the cell under IP Address in the new line and enter the IP address of the VDC to discover.
 - Step 21** 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 22** 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:

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