



Quick Start Guide



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Cisco Nexus 7000 Series NX-OS Virtual Device Context Quick Start

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

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 the Cisco NX-OS software, see the *Cisco Nexus 7000 Series NX-OS Virtual Device Context Configuration Guide*.

Creating and Initializing a VDC

This section describes how to create and initialize a VDC.

Procedure

Step 1 Log in to the default VDC with a username that has the network-admin role.

Step 2 Enter configuration mode and create the VDC using the default settings.

```
switch# configure terminal
switch(config)# vdc MyVDC
Note: Creating VDC, one moment please ...
switch(config-vdc)#
```

Step 3 (Optional) Allocate interfaces to the VDC.

```
switch(config-vdc)# show vdc membership

vdc_id: 1 vdc_name: switch interfaces:
Ethernet2/1      Ethernet2/2      Ethernet2/3
Ethernet2/4      Ethernet2/5      Ethernet2/6
Ethernet2/7      Ethernet2/8      Ethernet2/9
Ethernet2/10     Ethernet2/11     Ethernet2/12
Ethernet2/13     Ethernet2/14     Ethernet2/15
Ethernet2/16     Ethernet2/17     Ethernet2/18
Ethernet2/19     Ethernet2/20     Ethernet2/21
Ethernet2/22     Ethernet2/23     Ethernet2/24
Ethernet2/25     Ethernet2/26     Ethernet2/27
Ethernet2/28     Ethernet2/29     Ethernet2/30
```

```

Ethernet2/31      Ethernet2/32      Ethernet2/33
Ethernet2/34      Ethernet2/35      Ethernet2/36
Ethernet2/37      Ethernet2/38      Ethernet2/39
Ethernet2/40      Ethernet2/41      Ethernet2/42
Ethernet2/43      Ethernet2/44      Ethernet2/45
Ethernet2/46      Ethernet2/47      Ethernet2/48

```

```

switch(config-vdc)# allocate interface ethernet 2/11-1
Moving ports will cause all config associated to them in source vdc to be removed.
Are you sure you want to move the ports? [yes] yes

```

Note When you allocate an interface to a VDC, the interface configuration is lost.

Step 4 Verify the VDC configuration.

```

switch(config-vdc)# show vdc MyVDC

vdc_id  vdc_name          state          mac
-----  -----          -
2       MyVDC             active         00:00:00:00:00:00

```

Step 5 Switch to the new VDC and enter the VDC admin user account password.

```

switch(config-vdc)# switchto vdc MyVDC

---- System Admin Account Setup ----

Do you want to enforce secure password standard (yes/no) [y]: y

Enter the password for "admin":
Confirm the password for "admin":

```

Step 6 (Optional) Execute the setup script for your VDC.

```

---- Basic System Configuration Dialog VDC: 2 ----

This setup utility will guide you through the basic configuration of
the system. Setup configures only enough connectivity for management
of the system.

Please register Cisco Nexus7000 Family devices promptly with your
supplier. Failure to register may affect response times for initial
Please register Cisco Nexus7000 Family devices promptly with your
service calls. Nexus7000 devices must be registered to receive
entitled support services.

Press Enter at anytime to skip a dialog. Use ctrl-c at anytime
to skip the remaining dialogs.

Would you like to enter the basic configuration dialog (yes/no):

```

Note You can bypass the setup script and execute it later from within the VDC using the **setup** command.

Step 7 When you finish the setup script, or bypass it, you enter your new VDC.

```
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switch-MyVDC#
```

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