



Preface

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Audience

This publication is for network administrators who configure and maintain Cisco Nexus devices.

Audience

This publication is for data center and cloud administrators who configure and maintain Cisco software, Cisco software appliances, and virtualization infrastructure.

This guide is for target for network and server administrators with the following experience and knowledge:

- An understanding of virtualization.
- Using Virtual Machine Manager (VMM) software to create a virtual machine.
- Configuration of a virtual switch, such as Cisco Nexus 1000V, VMware vSwitch.
- An understanding of public cloud provider utilization for supported providers such as Amazon Web Services (AWS), Microsoft Azure, Cisco Intercloud Services – V, Cisco Intercloud Services, and Cisco Intercloud Services.

Document Conventions



Note As part of our constant endeavor to remodel our documents to meet our customers' requirements, we have modified the manner in which we document configuration tasks. As a result of this, you may find a deviation in the style used to describe these tasks, with the newly included sections of the document following the new format.

Command descriptions use the following conventions:

Convention	Description
bold	Bold text indicates the commands and keywords that you enter literally as shown.
<i>Italic</i>	Italic text indicates arguments for which the user supplies the values.
[x]	Square brackets enclose an optional element (keyword or argument).
[x y]	Square brackets enclosing keywords or arguments separated by a vertical bar indicate an optional choice.
{x y}	Braces enclosing keywords or arguments separated by a vertical bar indicate a required choice.
[x {y z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
<i>variable</i>	Indicates a variable for which you supply values, in context where italics cannot be used.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.

Examples use the following conventions:

Convention	Description
<code>screen font</code>	Terminal sessions and information the switch displays are in screen font.
boldface screen font	Information you must enter is in boldface screen font.
<i>italic screen font</i>	Arguments for which you supply values are in italic screen font.
<>	Nonprinting characters, such as passwords, are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

This document uses the following conventions:



Note Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.



Caution Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

Related Documentation for Cisco Nexus 3000 Series NX-OS Software

The entire Cisco NX-OS 3000 Series documentation set is available at the following URL:

http://www.cisco.com/en/US/products/ps11541/tsd_products_support_series_home.html

Release Notes

The release notes are available at the following URL:

http://www.cisco.com/en/US/products/ps11541/prod_release_notes_list.html

Installation and Upgrade Guides

The installation and upgrade guides are available at the following URL:

http://www.cisco.com/en/US/products/ps11541/prod_installation_guides_list.html

License Information

For information about feature licenses in NX-OS, see the *Cisco NX-OS Licensing Guide*, available at the following URL: https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/nx-os/licensing/guide/b_Cisco_NX-OS_Licensing_Guide.html.

For the NX-OS end user agreement and copyright information, see *License and Copyright Information for Cisco NX-OS Software*, available at the following URL:

http://www.cisco.com/en/US/docs/switches/datacenter/sw/4_0/nx-os/license_agreement/nx-ossw_lisns.html.

Configuration Guides

The configuration guides are available at the following URL:

http://www.cisco.com/en/US/products/ps11541/products_installation_and_configuration_guides_list.html

Programming Guides

The XML Interface User Guide and other programming guides are available at the following URL:

http://www.cisco.com/en/US/products/ps11541/products_programming_reference_guides_list.html

Technical References

The technical references are available at the following URL:

http://www.cisco.com/en/US/products/ps11541/prod_technical_reference_list.html

Error and System Messages

The error and system message reference guides are available at the following URL:

http://www.cisco.com/en/US/products/ps11541/products_system_message_guides_list.html

Related Documentation for Cisco Nexus 5500 Series NX-OS Software

The entire Cisco NX-OS 5500 Series documentation set is available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-5000-series-switches/tsd-products-support-series-home.html>

Release Notes

The release notes are available at the following URL:

http://www.cisco.com/en/US/products/ps9670/prod_release_notes_list.html

Configuration Guides

These guides are available at the following URL:

http://www.cisco.com/en/US/products/ps9670/products_installation_and_configuration_guides_list.html

The documents in this category include:

- *Cisco Nexus 5500 Series NX-OS Adapter-FEX Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS FabricPath Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS FCoE Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS Fundamentals Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS Interfaces Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS Layer 2 Switching Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS Multicast Routing Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS Quality of Service Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS SAN Switching Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS Security Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS System Management Configuration Guide*
- *Cisco Nexus 5500 Series NX-OS Unicast Routing Configuration Guide*

Installation and Upgrade Guides

These guides are available at the following URL:

http://www.cisco.com/en/US/products/ps9670/prod_installation_guides_list.html

The document in this category include:

- *Cisco Nexus 5500 Series NX-OS Software Upgrade and Downgrade Guides*

Licensing Guide

The *License and Copyright Information for Cisco NX-OS Software* is available at

http://www.cisco.com/en/US/docs/switches/datacenter/sw/4_0/nx-os/license_agreement/nx-ossw_lisns.html.

Command References

These guides are available at the following URL:

http://www.cisco.com/en/US/products/ps9670/prod_command_reference_list.html

The documents in this category include:

- *Cisco Nexus 5500 Series NX-OS Fabric Extender Command Reference*
- *Cisco Nexus 5500 Series NX-OS FabricPath Command Reference*
- *Cisco Nexus 5500 Series NX-OS Fundamentals Command Reference*
- *Cisco Nexus 5500 Series NX-OS Interfaces Command Reference*
- *Cisco Nexus 5500 Series NX-OS Layer 2 Interfaces Command Reference*
- *Cisco Nexus 5500 Series NX-OS Multicast Routing Command Reference*
- *Cisco Nexus 5500 Series NX-OS Quality of Service Command Reference*
- *Cisco Nexus 5500 Series NX-OS Security Command Reference*
- *Cisco Nexus 5500 Series NX-OS System Management Command Reference*
- *Cisco Nexus 5500 Series NX-OS TrustSec Command Reference*
- *Cisco Nexus 5500 Series NX-OS Unicast Routing Command Reference*
- *Cisco Nexus 5500 Series NX-OS Virtual Port Channel Command Reference*

Technical References

The *Cisco Nexus 5500 Series NX-OS MIB Reference* is available at

http://www.cisco.com/en/US/docs/switches/datacenter/nexus5500/sw/mib/reference/NX5500_MIBRef.html.

Error and System Messages

The *Cisco Nexus 5500 Series NX-OS System Message Guide* is available at

http://www.cisco.com/en/US/docs/switches/datacenter/nexus5500/sw/system_messages/reference/sl_nxos_book.html.

Troubleshooting Guide

The *Cisco Nexus 5500 Series NX-OS Troubleshooting Guide* is available at http://www.cisco.com/en/US/docs/switches/datacenter/nexus5500/sw/troubleshooting/guide/N5K_Troubleshooting_Guide.html.

Related Documentation for Cisco Nexus 6000 Series NX-OS Software

The entire Cisco NX-OS 6000 Series documentation set is available at the following URL:

http://www.cisco.com/en/US/products/ps12806/tsd_products_support_series_home.html

Release Notes

The release notes are available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-6000-series-switches/products-release-notes-list.html>

Configuration Guides

These guides are available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-6000-series-switches/products-installation-and-configuration-guides-list.html>

The documents in this category include:

- *Cisco Nexus 6000 Series NX-OS Adapter-FEX Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS FabricPath Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS FCoE Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS Fundamentals Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS Interfaces Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS Layer 2 Switching Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS Multicast Routing Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS Quality of Service Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS SAN Switching Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS Security Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS System Management Configuration Guide*
- *Cisco Nexus 6000 Series NX-OS Unicast Routing Configuration Guide*

Installation and Upgrade Guides

These guides are available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-6000-series-switches/products-installation-guides-list.html>

The document in this category include:

- *Cisco Nexus 6000 Series NX-OS Software Upgrade and Downgrade Guides*

Licensing Guide

The *License and Copyright Information for Cisco NX-OS Software* is available at http://www.cisco.com/en/US/docs/switches/datacenter/sw/4_0/nx-os/license_agreement/nx-ossw_lisns.html.

Command References

These guides are available at the following URL:

<http://www.cisco.com/c/en/us/support/switches/nexus-6000-series-switches/products-command-reference-list.html>

The documents in this category include:

- *Cisco Nexus 6000 Series NX-OS Fabric Extender Command Reference*
- *Cisco Nexus 6000 Series NX-OS FabricPath Command Reference*
- *Cisco Nexus 6000 Series NX-OS Fundamentals Command Reference*
- *Cisco Nexus 6000 Series NX-OS Interfaces Command Reference*
- *Cisco Nexus 6000 Series NX-OS Layer 2 Interfaces Command Reference*
- *Cisco Nexus 6000 Series NX-OS Multicast Routing Command Reference*
- *Cisco Nexus 6000 Series NX-OS Quality of Service Command Reference*
- *Cisco Nexus 6000 Series NX-OS Security Command Reference*
- *Cisco Nexus 6000 Series NX-OS System Management Command Reference*
- *Cisco Nexus 6000 Series NX-OS TrustSec Command Reference*
- *Cisco Nexus 6000 Series NX-OS Unicast Routing Command Reference*
- *Cisco Nexus 6000 Series NX-OS Virtual Port Channel Command Reference*

Technical References

The *Cisco Nexus 6000 Series NX-OS MIB Reference* is available at http://www.cisco.com/en/US/docs/switches/datacenter/nexus6000/sw/mib/reference/NX6000_MIBRef.html.

Error and System Messages

The *Cisco Nexus 6000 Series NX-OS System Message Guide* is available at http://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus6000/sw/system_messages/reference/sl_nxos_book.html.

Troubleshooting Guide

The *Cisco Nexus 6000 Series NX-OS Troubleshooting Guide* is available at <http://www.cisco.com/c/en/us/support/switches/nexus-6000-series-switches/tsd-products-support-troubleshoot-and-alerts.html>.

Related Documentation for Cisco Intercloud Fabric

This section lists the documents used with Cisco Intercloud Fabric and available at the following URL:

<http://www.cisco.com/c/en/us/support/cloud-systems-management/intercloud-fabric/tsd-products-support-series-home.html>

General Information

Cisco Intercloud Fabric Release Notes

Install and Upgrade

Cisco Intercloud Fabric Getting Started Guide

User Guides

Cisco Intercloud Fabric User Guide

Configuration Guides

Cisco Intercloud Fabric Configuration Guide

Cisco Intercloud Fabric Firewall Configuration Guide

Cisco vPath and vServices Reference Guide for Intercloud Fabric

Programming Guide

Cisco Intercloud Fabric Director REST API Guide

Troubleshooting and Alerts

Cisco Intercloud Fabric Troubleshooting Guide

Cisco Intercloud Fabric Provider Platform

The documentation listed below is available for use with Cisco Intercloud Fabric Provider Platform at the following URL:

<http://www.cisco.com/c/en/us/support/cloud-systems-management/intercloud-fabric/tsd-products-support-series-home.html>

Cisco Intercloud Fabric Provider Platform Release Notes

Cisco Intercloud Fabric Provider Platform Installation Guide

Cisco Intercloud Fabric Provider Platform Administrator Guide

Cisco Intercloud Fabric Provider Platform Troubleshooting Guide

Cisco Nexus 1000V Documentation

[Cisco Nexus 1000V for VMware vSphere](#)

[Cisco Nexus 1000V for KVM](#)

[Cisco Nexus 1000V for Microsoft Hyper-V](#)

Cisco Virtual Security Gateway Documentation

[Cisco Virtual Security Gateway](#)

Cisco Prime Network Services Controller Documentation

[Cisco Prime Network Services Controller](#)

Cisco Cloud Services Router Documentation

[Cisco Cloud Services Router 1000V](#)

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to: intercloud-fabric-doc-feedback@cisco.com.

We appreciate your feedback.

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at [Cisco Profile Manager](#).
- To get the business impact you're looking for with the technologies that matter, visit [Cisco Services](#).
- To submit a service request, visit [Cisco Support](#).
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit [Cisco Marketplace](#).
- To obtain general networking, training, and certification titles, visit [Cisco Press](#).
- To find warranty information for a specific product or product family, access [Cisco Warranty Finder](#).

Cisco Bug Search Tool

[Cisco Bug Search Tool](#) (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

