



Preface

This section describes the *Cisco Nexus 1000V Layer 2 Switching Configuration Guide, Release 4.0(4)SV1(3)*, and includes the following topics.

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Audience

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

- An understanding of virtualization
- Using VMware tools to configure a vswitch



Note

Note: Knowledge of VMware vNetwork Distributed Switch is not a required.

Recommended Reading

Before configuring the Cisco Nexus 1000V, Cisco recommends that you read and become familiar with the following documentation:

- *Cisco Nexus 1000V Getting Started Guide, Release 4.0(4)SV1(3)*
- *Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.0(4)SV1(3)*
- *Cisco VN-Link: Virtualization-Aware Networking* white paper

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Document Organization

This document is organized into the following chapters:

| Chapter | Description |
|---|---|
| Chapter 1, “Overview” | Describes Layer 2 features. |
| Chapter 2, “Configuring the MAC Address Table” | Describes MAC address table configuration. |
| Chapter 3, “Configuring VLANs” | Describes how to configure a VLAN. |
| Chapter 4, “Configuring a Private VLAN” | Describes how to configure a private VLAN. |
| Chapter 5, “Configuring IGMP Snooping” | Describes how to configure IGMP Snooping. |
| Chapter 6, “Layer 2 Switching Configuration Limits” | Lists the layer 2 switching configuration limits. |

Document Conventions

Command descriptions use these conventions:

| | |
|----------------------|---|
| boldface font | Commands and keywords are in boldface. |
| <i>italic font</i> | Arguments for which you supply values are in italics. |
| { } | Elements in braces are required choices. |
| [] | Elements in square brackets are optional. |
| x y z | Alternative, mutually exclusive elements are separated by vertical bars. |
| string | A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks. |

Screen examples use these conventions:

| | |
|-----------------------------|---|
| screen font | Terminal sessions and information the device 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 additional 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.

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Available Documents

This section lists the documents used with the Cisco Nexus 1000 and available on [Cisco.com](http://www.cisco.com) at the following url:

http://www.cisco.com/en/US/products/ps9902/tsd_products_support_series_home.html

General Information

Cisco Nexus 1000V Documentation Roadmap, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Release Notes, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Compatibility Information, Release 4.0(4)SV1(3)

Cisco Nexus 1010 Management Software Release Notes, Release 4.0(4)SP1(1)

Install and Upgrade

Cisco Nexus 1000V Software Installation Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Software Upgrade Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Virtual Ethernet Module Software Installation Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1010 Virtual Services Appliance Installation Guide

Configuration Guides

Cisco Nexus 1000V License Configuration Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Getting Started Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V High Availability and Redundancy Configuration Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Interface Configuration Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Layer 2 Switching Configuration Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Quality of Service Configuration Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Security Configuration Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V System Management Configuration Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1010 Software Configuration Guide, Release 4.0(4)SP1(1)

Programming Guide

Cisco Nexus 1000V XML API User Guide, Release 4.0(4)SV1(3)

Reference Guides

Cisco Nexus 1000V Command Reference, Release 4.0(4)SV1(3)

Cisco Nexus 1000V MIB Quick Reference

Cisco Nexus 1010 Command Reference, Release 4.0(4)SP1(1)

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Troubleshooting and Alerts

Cisco Nexus 1000V Troubleshooting Guide, Release 4.0(4)SV1(3)

Cisco Nexus 1000V Password Recovery Guide

Cisco NX-OS System Messages Reference

Network Analysis Module Documentation

Cisco Network Analysis Module Software Documentation Guide, 4.2

Cisco Nexus 1000V NAM Virtual Service Blade Installation and Configuration Guide

Network Analysis Module Command Reference Guide, 4.2

User Guide for the Cisco Network Analysis Module Virtual Service Blades, 4.2

Cisco Network Analysis Module Software Release Notes, 4.2

Obtaining Documentation and Submitting a Service Request

For information about 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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