



Preface

This document describes the Cisco Nexus 1010 and how to configure its software to create and manage virtual service blades.

This preface provides information about the *Cisco Nexus 1010 Software Configuration Guide, Release 4.2(1) SP1(2)* in the following sections:

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Audience

This document is for network administrators with knowledge of the Cisco Nexus 1000V and experience in the installation, upgrade, and management of Cisco Nexus 1000V VSMs.

Prerequisite

Before using the procedures in this document to configure your Cisco Nexus 1010 software, you must have already installed the Cisco Nexus 1010 Virtual Services Appliance. For detailed information, see the *Cisco Nexus 1010 Virtual Services Appliance Hardware Installation Guide*.

For a list of the basic steps in the complete Cisco Nexus 1010 installation, see the [“Getting Started With Cisco Nexus 1010” section on page 13](#).

Recommended Reading

Cisco recommends that you have read and are familiar with the following documentation:

- *Cisco Nexus 1000V Getting Started Guide, Release 4.2(1)SV1(4)*
- *Cisco Nexus 1010 Management Software Release Notes, Release 4.2(1)SP1(2)*
- *Cisco Nexus 1000V Software Installation Guide, Release 4.2(1)SV1(4)*

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- *Cisco Nexus 1000V Software Upgrade Guide, Release 4.2(1)SV1(4)*
- *Cisco VN-Link: Virtualization-Aware Networking white paper*

Organization

This document is organized as follows:

Chapter and Title	Description
Chapter 1, “Overview”	Provides an overview of virtual service blades.
Chapter 2, “Setting Up the Management Software”	Describes how to set up the initial configuration of the Cisco Nexus 1010 software.
Chapter 3, “Setting Up Remote Management”	Describes how to recover an unreachable Cisco Nexus 1010.
Chapter 4, “Configuring the Uplinks”	Describes how to modify the operational Cisco Nexus 1010 configuration.
Chapter 5, “Configuring Virtual Service Blades”	Describes how to create and configure virtual service blades.
Chapter 6, “Migrating a VSM”	Describes how to move or migrate a virtual service to the Cisco Nexus 1010 or from the Cisco Nexus 1010.

Document Conventions

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.



Tip

Means *the following information will help you solve a problem*.

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Command descriptions use these conventions:

Convention	Description
boldface font	Commands and keywords are in boldface.
<i>italic font</i>	Arguments for which you supply values are in italics.
[]	Elements in square brackets are optional.
[x y z]	Optional alternative keywords are grouped in brackets and 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:

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

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 4.2\(1\)SV1\(4\)](#)

[Cisco Nexus 1000V Release Notes, Release 4.2\(1\)SV1\(4\)](#)

[Cisco Nexus 1000V Compatibility Information, Release 4.2\(1\)SV1\(4\)](#)

[Cisco Nexus 1010 Management Software Release Notes, Release 4.2\(1\)SP1\(2\)](#)

Install and Upgrade

[Cisco Nexus 1000V Virtual Supervisor Module Software Installation Guide, Release 4.2\(1\)SV1\(4\)](#)

[Cisco Nexus 1000V Software Upgrade Guide, Release 4.2\(1\)SV1\(4\)](#)

[Cisco Nexus 1000V VEM Software Installation and Upgrade Guide, Release 4.2\(1\)SV1\(4\)](#)

[Cisco Nexus 1010 Virtual Services Appliance Hardware Installation Guide](#)

[Cisco Nexus 1010 Software Installation and Upgrade Guide, Release 4.2\(1\)SP1\(2\)](#)

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Configuration Guides

Cisco Nexus 1000V License Configuration Guide, Release 4.2(1)SV1(4)
Cisco Nexus 1000V Getting Started Guide, Release 4.2(1)SV1(4)
Cisco Nexus 1000V High Availability and Redundancy Configuration Guide, Release 4.2(1)SV1(4)
Cisco Nexus 1000V Interface Configuration Guide, Release 4.2(1)SV1(4)
Cisco Nexus 1000V Layer 2 Switching Configuration Guide, Release 4.2(1)SV1(4)
Cisco Nexus 1000V Port Profile Configuration Guide, Release 4.2(1)SV1(4)
Cisco Nexus 1000V Quality of Service Configuration Guide, Release 4.2(1)SV1(4)
Cisco Nexus 1000V Security Configuration Guide, Release 4.2(1)SV1(4)
Cisco Nexus 1000V System Management Configuration Guide, Release 4.2(1)SV1(4)
Cisco Nexus 1010 Software Configuration Guide, Release 4.2(1)SP1(2)

Programming Guide

Cisco Nexus 1000V XML API User Guide, Release 4.2(1)SV1(4)

Reference Guides

Cisco Nexus 1000V Command Reference, Release 4.2(1)SV1(4)
Cisco Nexus 1000V MIB Quick Reference
Cisco Nexus 1010 Command Reference, Release 4.2(1)SP1(2)

Troubleshooting and Alerts

Cisco Nexus 1000V Troubleshooting Guide, Release 4.2(1)SV1(4)
Cisco Nexus 1000V Password Recovery Guide
Cisco NX-OS System Messages Reference

Virtual Security Gateway Documentation

Cisco Virtual Security Gateway for Nexus 1000V Series Switch Release Notes, Release 4.2(1)VSG(1)
Cisco Virtual Security Gateway, Release 4.2(1)VSG1(1) and Cisco Virtual Network Management Center, Release 1.0.1 Installation Guide
Cisco Virtual Security Gateway for Nexus 1000V Series Switch License Configuration Guide, Release 4.2(1)VSG1(1)
Cisco Virtual Security Gateway for Nexus 1000V Series Switch Configuration Guide, Release 4.2(1)VSG1(1)
Cisco Virtual Security Gateway for Nexus 1000V Series Switch Command Reference, Release 4.2(1)VSG1(1)

Virtual Network Management Center

Release Notes for Cisco Virtual Network Management Center, Release 1.0.1
Cisco Virtual Security Gateway, Release 4.2(1)VSG1(1) and Cisco Virtual Network Management Center, Release 1.0.1 Installation Guide

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[Cisco Virtual Network Management Center CLI Configuration Guide, Release 1.0.1](#)

[Cisco Virtual Network Management Center GUI Configuration Guide, Release 1.0.1](#)

[Cisco Virtual Network Management Center XML API Reference Guide, Release 1.0.1](#)

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 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>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

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