



## Preface

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This preface describes the audience, organization, and conventions of the *Cisco Nexus 7000 Series NX-OS Security Configuration Guide, Release 4.0*. It also provides information on how to obtain related documentation.

This chapter includes the following sections:

- [Audience, page xxiii](#)
- [Document Organization, page xxiii](#)
- [Document Conventions, page xxiv](#)
- [Related Documentation, page xxv](#)
- [Obtaining Documentation and Submitting a Service Request, page xxvi](#)

## Audience

This publication is for experienced network administrators who configure and maintain NX-OS devices.

## Document Organization

This document is organized into the following chapters:

Chapter	Description
<a href="#">New and Changed Information</a>	Describes the new and changed information for the new Cisco NX-OS software releases.
<a href="#">Chapter 1, “Overview”</a>	Describes the security features supported by the NX-OS software.
<a href="#">Chapter 2, “Configuring AAA”</a>	Describes how to configure authentication, authorization, and accounting (AAA) features.
<a href="#">Chapter 3, “Configuring RADIUS”</a>	Describes how to configure the RADIUS security protocol.
<a href="#">Chapter 4, “Configuring TACACS+”</a>	Describes how to configure the TACACS+ security protocol.
<a href="#">Chapter 5, “Configuring SSH and Telnet”</a>	Describes how to configure Secure Shell (SSH) and Telnet.
<a href="#">Chapter 6, “Configuring User Accounts and RBAC”</a>	Describes how to configure user accounts and role-based access control (RBAC).

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Chapter	Description
<a href="#">Chapter 7, “Configuring 802.1X”</a>	Describes how to configure 802.1X authentication.
<a href="#">Chapter 8, “Configuring NAC”</a>	Describes how to configure Network Admission Control (NAC).
<a href="#">Chapter 9, “Configuring Cisco TrustSec”</a>	Describes how to configure Cisco TrustSec integrated security.
<a href="#">Chapter 10, “Configuring IP ACLs”</a>	Describes how to configure IP access control lists (ACLs).
<a href="#">Chapter 11, “Configuring MAC ACLs”</a>	Describes how to configure MAC ACLs.
<a href="#">Chapter 12, “Configuring VLAN ACLs”</a>	Describes how to configure VLAN ACLs.
<a href="#">Chapter 13, “Configuring Port Security”</a>	Describes how to configure port security.
<a href="#">Chapter 14, “Configuring DHCP Snooping”</a>	Describes how to configure Dynamic Host Configuration Protocol (DHCP) snooping.
<a href="#">Chapter 15, “Configuring Dynamic ARP Inspection”</a>	Describes how to configure Address Resolution Protocol (ARP) inspection.
<a href="#">Chapter 16, “Configuring IP Source Guard”</a>	Describes how to configure IP Source Guard.
<a href="#">Chapter 17, “Configuring Keychain Management”</a>	Describes how to configure keychain management.
<a href="#">Chapter 18, “Configuring Traffic Storm Control”</a>	Describes how to configure traffic storm control.
<a href="#">Chapter 19, “Configuring Unicast RPF”</a>	Describes how to configure Unicast Reverse Path Forwarding (Unicast RPF).
<a href="#">Chapter 20, “Configuring Control Plane Policing”</a>	Describes how to configure control plane policing on ingress traffic.
<a href="#">Chapter 21, “Configuring Rate Limits”</a>	Describes how to configure rate limits on egress traffic.

## Document Conventions

Command descriptions use these conventions:

Convention	Description
<b>boldface font</b>	Commands and keywords are in boldface.
<i>italic font</i>	Arguments for which you supply values are in italics.
{ }	Elements in curly brackets are required.
[ ]	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.

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Screen examples use these conventions:

screen font	Terminal sessions and information that the switch displays are in screen font.
<b>boldface screen font</b>	Information that 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

The following Cisco NX-OS documents are published on [Cisco.com](http://Cisco.com):

### Release Notes

*Cisco Nexus 7000 Series NX-OS Release Notes, Release 4.0*

### NX-OS Configuration Guides

*Cisco Nexus 7000 Series NX-OS Getting Started with Virtual Device Contexts, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Fundamentals Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Interfaces Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Layer 2 Switching Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Quality of Service Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Unicast Routing Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Multicast Routing Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Security Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Virtual Device Context Configuration Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Software Upgrade Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Licensing Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS High Availability and Redundancy Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS System Management Configuration Guide, Release 4.0*

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*Cisco Nexus 7000 Series NX-OS XML Management Interface User Guide, Release 4.0*

*Cisco Nexus 7000 Series NX-OS System Messages Reference*

*Cisco Nexus 7000 Series NX-OS MIB Quick Reference*

## **NX-OS Command References**

*Cisco Nexus 7000 Series NX-OS Command Reference Master Index, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Fundamentals Command Reference, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Interfaces Command Reference, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Layer 2 Switching Command Reference, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Quality of Service Command Reference, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Unicast Routing Command Reference, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Multicast Routing Command Reference, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Security Command Reference, Release 4.0*

*Cisco Nexus 7000 Series NX-OS Virtual Device Context Command Reference, Release 4.0*

*Cisco Nexus 7000 Series NX-OS System Management Command Reference, Release 4.0*

## **Other Software Document**

*Cisco Nexus 7000 Series NX-OS Troubleshooting Guide, Release 4.0*

# **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>

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