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Preface

This document describes the configuration details for Cisco NX-OS unicast routing in Cisco NX-OS switches.

This chapter includes the following sections:

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Audience

To use this guide, you must be familiar with IP and routing technology.

Supported Switches

This section includes the following topics:

- [Cisco Nexus 3000 Platform Switches, page -xxi](#)

Cisco Nexus 3000 Platform Switches

[Table 1](#) describes the Cisco Nexus 3000 Series switch:



Note

For more information on these switches, see the *Cisco Nexus 3000 Series Hardware Installation Guide* available at the following URL:

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

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Table 1 Supported Cisco Nexus 3000 Platform Switches

Switch	Description
Cisco Nexus 3064PQ Switch	The Cisco Nexus 3064UP switch is a high-performance, high-density, ultra-low-latency Ethernet switch that is part of the new Cisco Nexus 3000 Series Switches. This compact one-rack-unit (1RU) form factor 1 and 10 Gigabit Ethernet switch provides line-rate Layer 2 and 3 switching. The switch runs the industry-leading Cisco NX-OS Software operating system, providing customers with robust features and functionality that are widely deployed globally. The Cisco Nexus 3064UP is well suited for financial co-location deployments that require support for robust unicast and multicast routing protocol features at ultra-low latencies.

Organization

This document is organized into the following chapters:

Title	Description
Chapter 1, “Overview”	Presents an overview of unicast routing and brief descriptions of each feature.
Chapter 2, “Configuring IPv4”	Describes how to configure and manage IPv4, including ARP and ICMP.
Chapter 3, “Configuring OSPFv2”	Describes how to configure the OSPFv2 routing protocol for IPv4 networks.
Chapter 4, “Configuring EIGRP”	Describes how to configure the Cisco EIGRP routing protocol for IPv4 networks.
Chapter 5, “Configuring Basic BGP”	Describes how to configure basic features for the BGP routing protocol for IPv4 networks.
Chapter 6, “Configuring Advanced BGP”	Describes how to configure advanced features for the BGP routing protocol for IPv4 networks, including route redistribution and route aggregation.
Chapter 7, “Configuring Bidirectional Forwarding Detection for BGP”	Describes how to configure Bidirectional Forwarding Detection (BFD) for BGP.
Chapter 8, “Configuring ECMP for Host Routes”	Describes how to configure the equal-cost multipathing (ECMP) protocol for host routes
Chapter 9, “Configuring RIP”	Describes how to configure the RIP routing protocols for IPv4 networks.
Chapter 10, “Configuring Static Routing”	Describes how to configure static routing for IPv4 networks.
Chapter 11, “Configuring Layer 3 Virtualization”	Describes how to configure Layer 3 virtualization.
Chapter 12, “Managing the Unicast RIB and FIB”	Describes how to view and modify the unicast RIB and FIB.

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Title	Description
Chapter 13, “Configuring Route Policy Manager”	Describes how to configure the Route Policy Manager, including IP prefix lists and route maps for filtering and redistribution.
Chapter 14, “Configuring HSRP”	Describes how to configure the Hot Standby Routing Protocol.
Chapter 15, “Configuring VRRP”	Describes how to configure the Virtual Router Redundancy Protocol.
Chapter 16, “Configuring Object Tracking”	Describes how to configure object tracking.
Appendix A, “IETF RFCs”	Lists IETF RFCs supported by Cisco NX-OS.

Document Conventions

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:

screen font	Terminal sessions and information that the switch displays are in screen font.
boldface screen font	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.

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**Caution**

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

Related Documentation

Documentation for the Cisco Nexus 3000 Series Switch is available at the following URL:

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

The documentation set is divided into the following categories:

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

Command References

The command references are available at the following URL:

http://www.cisco.com/en/US/products/ps11541/prod_command_reference_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

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

Error and System Messages

The system message reference guide is available at the following URL:

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

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