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## Preface

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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](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
<a href="#">Chapter 1, “Overview”</a>	Presents an overview of unicast routing and brief descriptions of each feature.
<a href="#">Chapter 2, “Configuring IPv4”</a>	Describes how to configure and manage IPv4, including ARP and ICMP.
<a href="#">Chapter 3, “Configuring OSPFv2”</a>	Describes how to configure the OSPFv2 routing protocol for IPv4 networks.
<a href="#">Chapter 4, “Configuring EIGRP”</a>	Describes how to configure the Cisco EIGRP routing protocol for IPv4 networks.
<a href="#">Chapter 5, “Configuring Basic BGP”</a>	Describes how to configure basic features for the BGP routing protocol for IPv4 networks.
<a href="#">Chapter 6, “Configuring Advanced BGP”</a>	Describes how to configure advanced features for the BGP routing protocol for IPv4 networks, including route redistribution and route aggregation.
<a href="#">Chapter 7, “Configuring RIP”</a>	Describes how to configure the RIP routing protocols for IPv4 networks.
<a href="#">Chapter 8, “Configuring Static Routing”</a>	Describes how to configure static routing for IPv4 networks.
<a href="#">Chapter 9, “Configuring Layer 3 Virtualization”</a>	Describes how to configure Layer 3 virtualization.
<a href="#">Chapter 10, “Managing the Unicast RIB and FIB”</a>	Describes how to view and modify the unicast RIB and FIB.
<a href="#">Chapter 11, “Configuring Route Policy Manager”</a>	Describes how to configure the Route Policy Manager, including IP prefix lists and route maps for filtering and redistribution.
<a href="#">Chapter 12, “Configuring HSRP”</a>	Describes how to configure the Hot Standby Routing Protocol.

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Title	Description
<a href="#">Chapter 13, “Configuring VRRP”</a>	Describes how to configure the Virtual Router Redundancy Protocol.
<a href="#">Chapter 14, “Configuring Object Tracking”</a>	Describes how to configure object tracking.
<a href="#">Appendix A, “IETF RFCs”</a>	Lists IETF RFCs supported by Cisco NX-OS.

## 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 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.
<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.

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## 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](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](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](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](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](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](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](http://www.cisco.com/en/US/products/ps11541/products_system_message_guides_list.html)

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