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RIP Next Generation (RIPng)

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From the Book



CCNA Routing and Switching Portable Command Guide (ICND1 100-105, ICND2 200-105, and CCNA 200-125), 4th Edition

\$34.99

This chapter provides information and commands concerning the following topics:

- Implementing RIP Next Generation
- · Verifying and troubleshooting RIPng
- · Configuration example: RIPng

NOTE

For an excellent overview of IPv6, I strongly recommend you read Rick Graziani's book from Cisco Press: IPv6 Fundamentals: A Straightforward Approach to Understanding IPv6.

Implementing RIP Next Generation

This section shows how to implement RIP Next Generation (RIPng) on a router.

Router(config)#ipv6 unicast-routing

Enables the forwarding of IPv6 unicast datagrams globally on the router.

Router(config) #interface serial0/0/0

Moves to interface configuration mode.

rip TOWER enable

Router(config-if) #ipv6 Creates the RIPng process named TOWER and enables RIPng on the interface.

NOTE

Unlike RIPv1 and RIPv2, where you needed to create the RIP routing process with the router rip command and then use the network command to specify the interfaces on which to run RIP, the RIPng process is created automatically when RIPng is enabled on an interface with the ipv6 rip name enable command.

TIP

Be sure that you do not misspell your process name. If you do misspell the name, you will inadvertently create a second process with the misspelled name.

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NOTE

Cisco IOS Software automatically creates an entry in the configuration for the RIPng routing process when it is enabled on an interface

NOTE

The **ipv6 router rip** *process-name* command is still needed when configuring optional features of RIPng.

NOTE

The routing process name does not need to match between neighbor routers.

Router(config)#ipv6 router rip TOWER

Creates the RIPng process named TOWER if it has not already been created and moves to router configuration mode.

Router(config-rtr)
#maximum-paths 2

Defines the maximum number of equal-cost routes that RIPng can support.

NOTE

The number of paths that can be used is a number from 1 to 64. The default is 4.

Router(config-if)#ipv6 rip tower defaultinformation originate

Announces the default route along with all other RIPng routes.

Router(config-if) #ipv6 rip tower default-information only

Announces only the default route. Suppresses all other RIPng routes.

2. Verifying and Troubleshooting RIPng | Next Section

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