

RIP Next Generation (RIPng)

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Chapter Information

Contents

- 1. Implementing RIP Next Generation
- 2. Verifying and Troubleshooting RIPng
- 3. Configuration Example: RIPng

From the Book



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Configuration Example: RIPng

Figure 13-1 illustrates the network topology for the configuration that follows, which shows how to configure IPv6 and RIPng using the commands covered in this chapter.

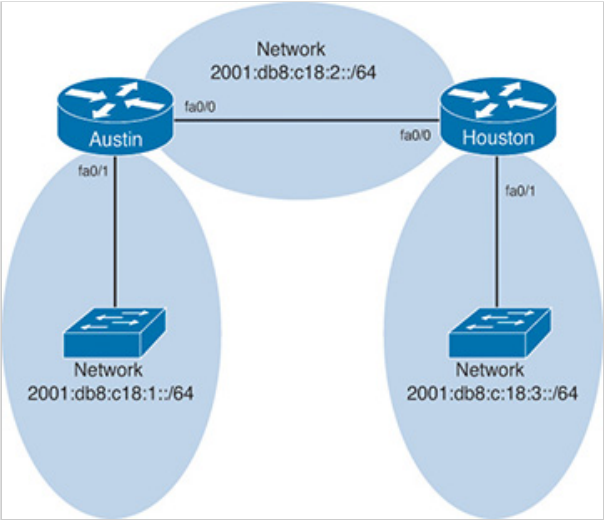


Figure 13-1 Network Topology for IPv6/RIPng Configuration Example

Austin Router

Router>enable	Moves to privileged mode
Router#configure terminal	Moves to global configuration mode
Router(config)#hostname Austin	Assigns a hostname to the router
Austin(config)#ipv6 unicast-routing	Enables the forwarding of IPv6 unicast datagrams globally on the router
Austin(config)#interface fastethernet0/0	Enters interface configuration mode

Austin(config-if)# ipv6 address 2001:db8:c18:2::/64 eui-64	Configures a global IPv6 address with an EUI-64 interface identifier in the low-order 64 bits of the IPv6 address
Austin(config-if)# ipv6 rip TOWER enable	Creates the RIPng process named TOWER and enables RIPng on the interface
Austin(config-if)# no shutdown	Activates the interface
Austin(config-if)# interface fastethernet0/1	Enters interface configuration mode
Austin(config-if)# ipv6 address 2001:db8:c18:1::/64 eui-64	Configures a global IPv6 address with an EUI-64 interface identifier in the low-order 64 bits of the IPv6 address
Austin(config-if)# ipv6 rip TOWER enable	Creates the RIPng process named TOWER and enables RIPng on the interface
Austin(config-if)# no shutdown	Activates the interface
Austin(config-if)# exit	Moves to global configuration mode
Austin(config)# exit	Moves to privileged mode
Austin# copy running-config startup-config	Saves the configuration to NVRAM

Houston Router

Router> enable	Moves to privileged mode
Router# configure terminal	Moves to global configuration mode
Router(config)# hostname Houston	Assigns a hostname to the router
Houston(config)# ipv6 unicast-routing	Enables the forwarding of IPv6 unicast datagrams globally on the router
Houston(config)# interface fastethernet0/0	Enters interface configuration mode
Houston(config-if)# ipv6 address 2001:db8:c18:2::/64 eui-64	Configures a global IPv6 address with an EUI-64 interface identifier in the low-order 64 bits of the IPv6 address
Houston(config-if)# ipv6 rip TOWER enable	Creates the RIPng process named TOWER and enables RIPng on the interface
Houston(config-if)# no shutdown	Activates the interface
Houston(config-if)# interface fastethernet 0/1	Enters interface configuration mode
Houston(config-if)# ipv6 address 2001:db8:c18:3::/64 eui-64	Configures a global IPv6 address with an EUI-64 interface identifier in the

low-order 64 bits of the IPv6 address

Houston(config-if)# ipv6 rip TOWER enable	Creates the RIPng process named TOWER and enables RIPng on the interface
Houston(config-if)# no shutdown	Activates the interface
Houston(config-if)# exit	Moves to global configuration mode
Houston(config)# exit	Moves to privileged mode
Houston# copy running-config startup-config	Saves the configuration to NVRAM

[Previous Section](#)

[Return to Beginning](#)

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