RIP Next Generation (RIPng)

Sample Chapter is provided courtesy of Cisco Press.
Date: May 27, 2016.

Chapter Information

Contents

From the Book

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.

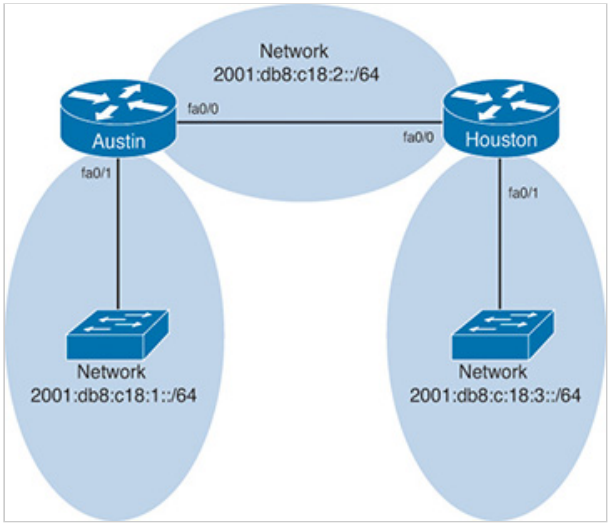

Figure 13-1 Network Topology for IPv6/RIPng Configuration Example

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