

CCNA ICND2 Lab 8 - Configure RIP Dynamic Route

Lab Topology:



Lab Requirements: 1. The router names are **P4S1** and **P4S2**. 2. The loopback interface of P4S1 is loopback0 and the loopback interface of P4S2 is loopback0. 3. The S1/1 interface of P4S1 is the DCE end. 4. Start the RIP routing protocol on both routers. 5. View the routing table on the router and run the **ping** command to test connectivity. **Lab Process:** 1. As shown in the topology, configure IP addresses for both router interfaces. Run the **no shutdown** command to activate the interface. 2. Use the **clock rate 64000** command on the s1/1 interface of P4S1 to configure the clock rate. 3. Run the **show ip route** command to view the routing table. 4. Enable the RIP routing protocol on the router. **Configure P4S1:** Router>en Router#conf t Router(config)#host P4S1 P4S1(config)#int s1/1 P4S1(config-if)#ip add 192.168.12.1 255.255.255.0 P4S1(config-if)#clock rate 64000 P4S1(config-if)#no shut P4S1(config)#int loopback 0 P4S1(config-if)#ip add 1.1.1.1 255.255.255.0 P4S1(config-if)#end P4S1(config)#router rip P4S1(config-route)#network 192.168.12.0 P4S1(config-route)#network 1.0.0.0 **Configure P4S2:** Router>en Router#conf t Router(config)#host P4S2 P4S2(config)#int s1/1 P4S2(config-if)#ip add 192.168.12.2 255.255.255.0 P4S2(config-if)#no shut P4S2(config)#int loopback 0 P4S2(config-if)#ip add 2.2.2.2 255.255.255.0 P4S2(config-if)#end P4S2(config)#router rip P4S2(config-route)#network 192.168.12.0 P4S2(config-route)#network 2.0.0.0 After configuring the RIP routing protocol, you can see routing items of the non-directly connected network segment learned through the RIP protocol. Run the **ping 2.2.2.2** command on P4S1 to test connectivity.