

CCNA ICND2 lab11 - EIGRP Routing Protocol

EIGRP Routing Protocol A: Lab Tips: Enhanced Interior Gateway Routing Protocol (EIGRP) is a proprietary Cisco IP routing protocol. **Lab Requirements:** 1. Perform basic routing configurations. 2. Use loopback interfaces to replace PCs. **Topology:**

Loopback

Lab Process: P4S1(config)#interface serial1/1 P4S1(config-if)#ip address 172.16.1.1 255.255.255.0 P4S1(config-if)#no shutdown P4S1(config)#interface loopback 0 P4S1(config-if)#ip add 192.168.1.1 255.255.255.0 P4S1(config)#interface loopback 1 P4S1(config-if)#ip add 192.168.1.2 255.255.255.0 P4S2(config)#interface serial1/1 P4S2(config-if)#ip address 172.16.1.2 255.255.255.0 P4S2(config-if)#no shutdown P4S2(config)#interface loopback 0 P4S2(config-if)#ip add 192.168.1.1 255.255.255.0 P4S2(config)#interface loopback 1 P4S2(config-if)#ip add 192.168.1.2 255.255.255.0 **EIGRP Routing Protocol B**

Lab Tips: EIGRP is a classless routing protocol. Auto-summary is default. You can shut it down. **Lab Requirements:** 1. Configure EIGRP. 2. Shut down auto-summary. 3 Use manual summary to reduce the size of the routing table. **Lab Process:** P4S1(config)#router eigrp 100 / Start EIGRP. The process number is 100. P4S1(config-router)#network 192.168.1.0 / Advertise directly connected network P4S1(config-router)#network 172.16.1.0 P4S1(config-router)#no auto-summary / Shut down auto-summary P4S2(config)#router eigrp 100 Start EIGRP. / The process number is 100. P4S2(config-router)#network 192.168.2.0 P4S2(config-router)#network 172.16.1.0 P4S2(config-router)#no auto-summary

Manual Summary: P4S1(config)#interface serial 1/1 P4S1(config-if)#ip summary-address eigrp 100 192.168.0.0 255.255.255.0