

## 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<br> / Start EIGRP. The process number is 100.<br>P4S1(config-router)#network 192.168.1.0<br> / Advertise directly connected network<br>P4S1(config-router)#network 172.16.1.0<br>P4S1(config-router)#no auto-summary<br> / Shut down auto-summary<br>P4S2(config)#router eigrp 100 Start EIGRP.<br> / The process number is 100.<br>P4S2(config-router)#network 192.168.2.0<br>P4S2(config-router)#network 172.16.1.0<br>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