



RIP :

Router 0:

10.0.0.0

12.0.0.0

198.10.10.0

Router 1:

10.0.0.0

11.0.0.0

198.20.20.0

Router 2:

11.0.0.0

12.0.0.0

198.30.30.0

Ospf :

**OSPF Configuration basic syntax:**

Step 1: Define the OSPF process.

Router(config)# router ospf <Process-id>

Step-2 : Configure the Router ID Manually (optional)

Router(config-router)# router-id <id-value>

Step-3 : Advertise the directly connected network and the area they belongs to.

Router(config-router)# network <network address> <wildcard mask> area <area-id>

Router 0:

Router(config)#route ospf 1

Router(config-router)#router-id 198.10.10.0

Router(config-router)#network 198.10.10.0 0.0.0.255 area 0

Router(config-router)#network 10.0.0.0 0.255.255.255 area 0

Router(config-router)#network 12.0.0.0 0.255.255.255 area 0

Router 1:

```
Router(config)#route ospf 1
Router(config-router)#router-id 198.20.20.0
Router(config-router)#network 198.20.20.0 0.0.0.255 area 0
Router(config-router)#network 11.0.0.0 0.255.255.255 area 0
Router(config-router)#network 12.0.0.0 0.255.255.255 area 0
```

Router 2:

```
Router(config)#route ospf 1
Router(config-router)#router-id 198.30.30.0
Router(config-router)#network 198.30.30.0 0.0.0.255 area 0
Router(config-router)#network 11.0.0.0 0.255.255.255 area 0
Router(config-router)#network 12.0.0.0 0.255.255.255 area 0
```

Eigrp :

Router 0:

```
Router#en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#network 198.10.10.0
Router(config-router)#network 10.0.0.0
Router(config-router)#network 12.0.0.0
Router(config-router)#no auto-summary
Router(config-router)#exit
Router#show ip route
Router# show ip eigrp neighbor
Router#show ip eigrp topology
Router#show ip route eigrp
```

**Router 1:**

```
Router#en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#network 198.20.20.0
Router(config-router)#network 10.0.0.0
Router(config-router)#network 11.0.0.0
Router(config-router)#no auto-summary
Router(config-router)#exit
Router#show ip route
Router# show ip eigrp neighbor
Router#show ip eigrp topology
Router#show ip route eigrp
```

**Router 2:**

Router#en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#router eigrp 100

Router(config-router)#network 198.30.30.0

Router(config-router)#network 11.0.0.0

Router(config-router)#network 12.0.0.0

Router(config-router)#no auto-summary

Router(config-router)#exit

Router#show ip route

**Router# show ip eigrp neighbor**

**Router#show ip eigrp topology**

**Router#show ip route eigrp**