

Assignment#10

Configure OSPF routing

Sr. No.	Device	Interface	IP Address
1	Router1	Fa0/1	10.0.0.1/8
		S1/0	192.168.1.1/24
2	Router2	S1/0	192.168.1.2/24
		Fa0/0	20.0.0.1/8
		Fa0/1	150.150.150.1/24
3	Router3	Fa0/1	150.150.150.2/24
4	Switch1	N/A	N/A
5	Switch2	N/A	N/A
6	PC0	Fa0	10.0.0.2/8
7	PC1	Fa0	10.0.0.3/8
8	PC2	Fa0	20.0.0.2/8
9	PC3	Fa0	20.0.0.3/8

Syntax

```
Router(config)#router ospf <process id 1-65535>
```

```
Router(config-router)network <network address> <wild card mask>  
area <0-4294967295>
```

1. Move on to **Router1** and execute the following commands to specify the OSPF network and area.

2. Router1(config)#router ospf 200
3. Router1(config-router)#network 10.0.0.0 0.255.255.255
area 0
4. Router1(config-router)#network 192.168.1.0 0.0.0.255
area 0.0.0.0
Router1(config-router)#exit

To verify and test the OSPF configuration, execute the following commands on any router and review the output of each command.

To view the OSPF neighbor routers, execute the following command.

```
Router#show ip ospf neighbor
```

To view the OSPF border routers, execute the following command.

```
Router#show ip ospf border-routers
```