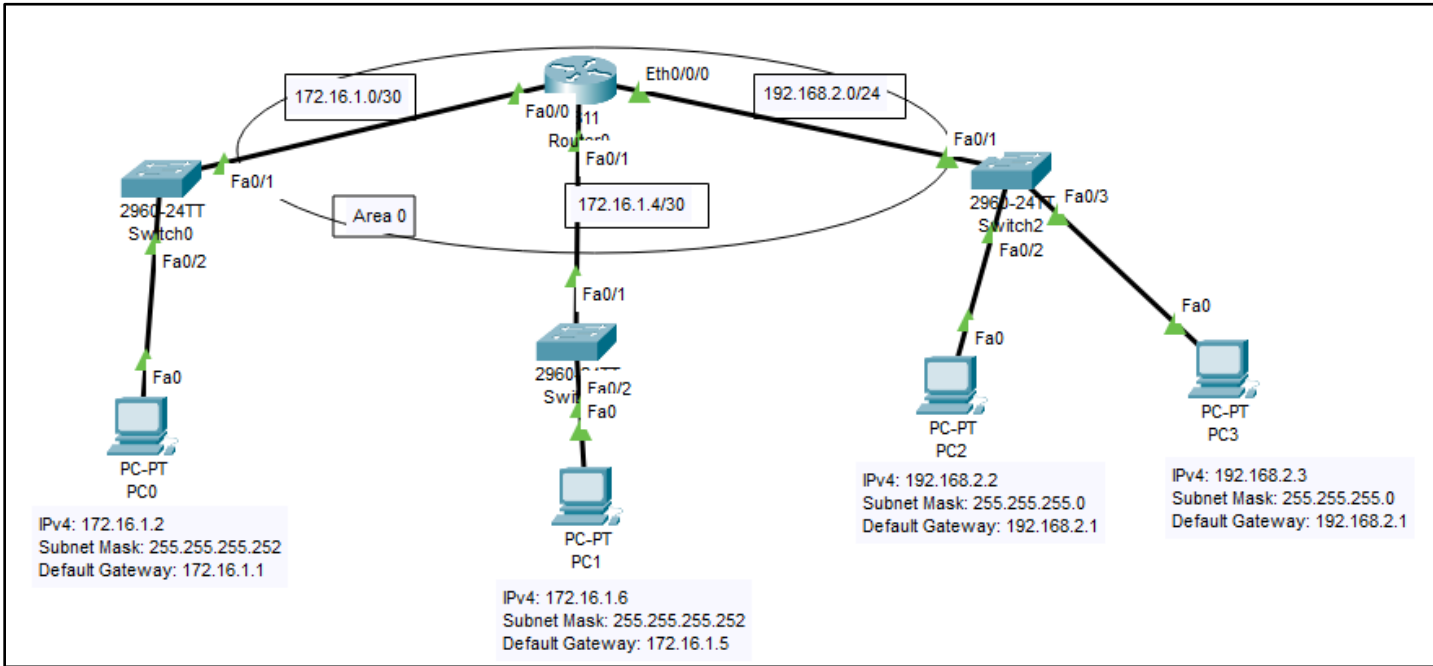


# OSPF Configuration

## Example-1



Network	Network Address	Broadcast Address	Subnet Mask	Wildcard Mask	Area
172.16.1.0/30	172.16.1.0	172.16.1.3	255.255.255.252	0.0.0.3	Area 0
172.16.1.4/30	172.16.1.4	172.16.1.7	255.255.255.252	0.0.0.3	Area 0
192.168.2.0/24	192.168.2.0	192.168.2.255	255.255.255.0	0.0.0.255	Area 0

```
Router>enable
Router#configure terminal

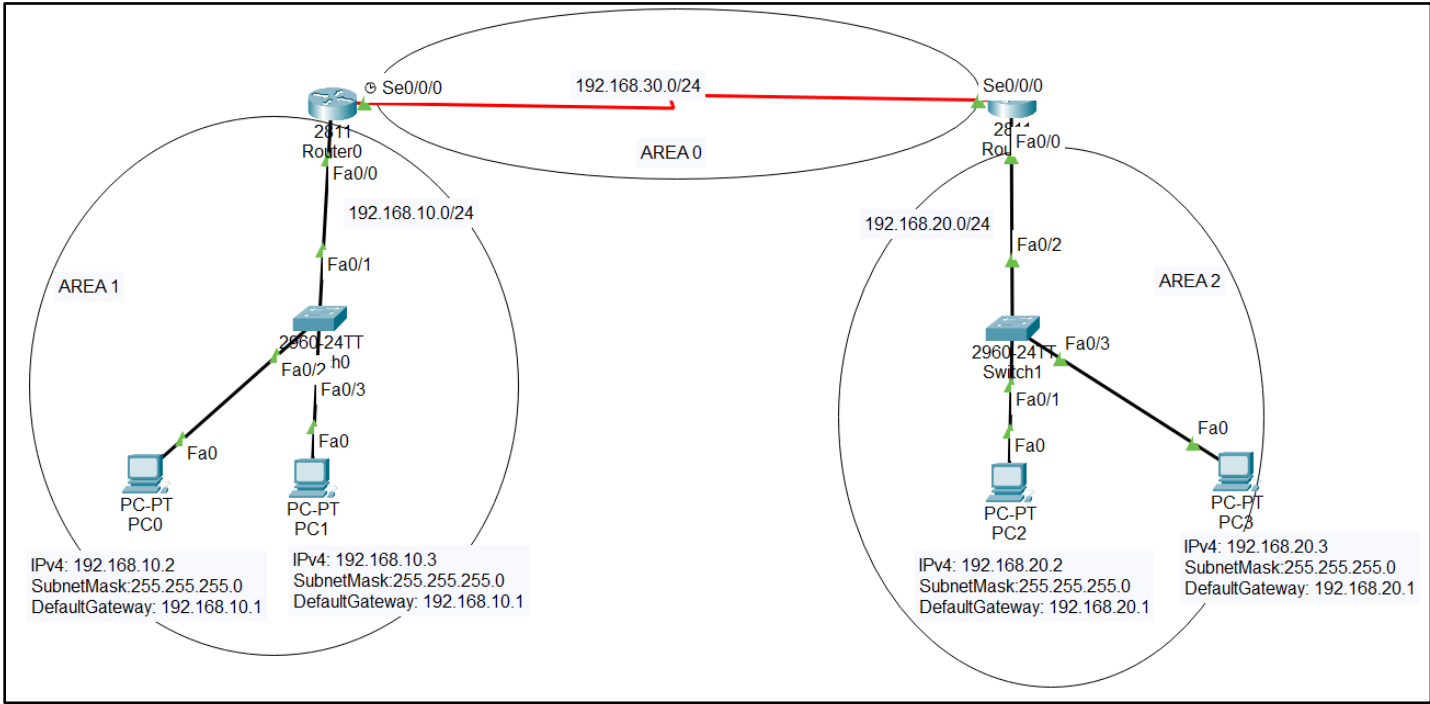
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 172.16.1.1 255.255.255.252
Router(config-if)#no shutdown
Router(config-if)#exit

Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 172.16.1.5 255.255.255.252
Router(config-if)# no shutdown
Router(config-if)#exit

Router(config)#interface Ethernet0/0/0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)# no shutdown
Router(config-if)#exit

Router(config)#router ospf 10
Router(config-router)#router-id 1.1.1.1
Router(config-router)#network 172.16.1.0 0.0.0.3 area 0
Router(config-router)#network 172.16.1.4 0.0.0.3 area 0
Router(config-router)#network 192.168.2.0 0.0.0.255 area 0
Router(config-router)#exit
```

Example-2



Network	Network Address	Broadcast Address	Subnet Mask	Wildcard Mask	Area
192.168.10.0/24	192.168.10.0	192.168.10.255	255.255.255.0	0.0.0.255	Area 1
192.168.20.0/24	192.168.20.0	192.168.20.255	255.255.255.0	0.0.0.255	Area 2
192.168.30.0/24	192.168.30.0	192.168.30.255	255.255.255.0	0.0.0.255	Area 0

Steps:

- 1. Draw the network (add WIC-2T port in both routers)
- 2. Configure routers
- 3. Configure PCs
- 4. Configure/apply OSPF so that all the PCs/routers can communicate each other

Router0:

```
Router>enable
Router#configure terminal

Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.168.30.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit

Router(config)#router ospf 1
Router(config-router)#router-id 1.1.1.1
Router(config-router)#network 192.168.10.0 0.0.0.255 area 1
Router(config-router)#network 192.168.30.0 0.0.0.255 area 0
Router(config-router)#exit
```

### **Router1:**

```
Router>enable
Router#configure terminal

Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.20.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.168.30.2 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit

Router(config)#router ospf 1
Router(config-router)#router-id 2.2.2.2
Router(config-router)#network 192.168.20.0 0.0.0.255 area 2
Router(config-router)#network 192.168.30.0 0.0.0.255 area 0
Router(config-router)#exit
```