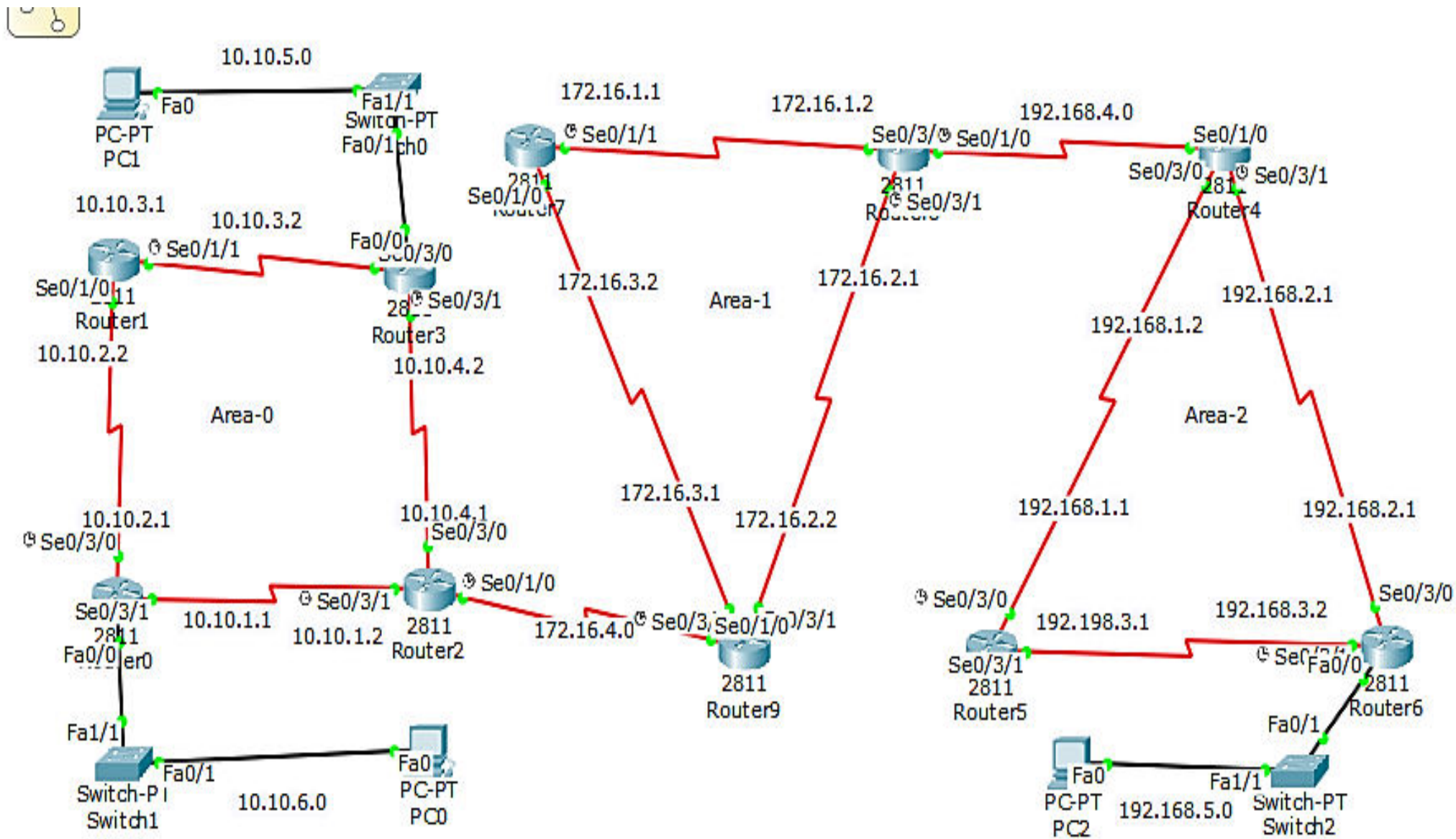


OSPF (Multi Area)



OSPF (Multi Area), Configuration:

Router-0:

```
router ospf 1
network 10.10.1.0 0.0.0.255 area 0
network 10.10.2.0 0.0.0.255 area 0
network 10.10.6.0 0.0.0.255 area 0
```

Router-1:

```
router ospf 1
network 10.10.3.0 0.0.0.255 area 0
network 10.10.2.0 0.0.0.255 area 0
```

Router-3:

```
router ospf 1
network 10.10.4.0 0.0.0.255 area 0
network 10.10.3.0 0.0.0.255 area 0
network 10.10.5.0 0.0.0.255 area 0
```

Router-2:

```
router ospf 1
network 10.10.1.0 0.0.0.255 area 0
network 10.10.4.0 0.0.0.255 area 0
network 100.10.10.0 0.0.0.255 area 0
network 172.16.4.0 0.0.0.255 area 1
```

Router-9:

```
router ospf 1
network 172.16.2.0 0.0.0.255 area 1
network 172.16.3.0 0.0.0.255 area 1
network 172.16.4.0 0.0.0.255 area 1
```

#show running-config

#show ip ospf

#show ip route

show ip route connected

#show ip route ospf

#show ip ospf neighbor

#show ip ospf interface f 0/0

#show ip ospf border-routers

#show ip ospf database

#show ip ospf database router

#show ip ospf interface

#show ip ospf multi-area

#show ip ospf neighbor

#show ip ospf statistics

#show ip ospf summary-address

#show ip ospf traffic

#shutdown (router OSPF)

Change Cost:

Router(config)#interface serial 0/3/1

Router(config-if)#ip ospf cost 100

Router-7:

```
router ospf 1
network 172.16.3.0 0.0.0.255 area 1
network 172.16.1.0 0.0.0.255 area 1
```

Router-8:

```
router ospf 1
network 172.16.1.0 0.0.0.255 area 1
network 172.16.2.0 0.0.0.255 area 1
network 192.168.4.0 0.0.0.255 area 1
```

Router-4:

```
router ospf 1
network 192.168.4.0 0.0.0.255 area 1
network 192.168.1.0 0.0.0.255 area 2
network 192.168.2.0 0.0.0.255 area 2
network 100.10.10.0 0.0.0.255 area 0
```

Router-5:

```
router ospf 1
network 192.168.1.0 0.0.0.255 area 2
network 192.168.3.0 0.0.0.255 area 2
```

Router-6:

```
router ospf 1
network 192.168.2.0 0.0.0.255 area 2
network 192.168.3.0 0.0.0.255 area 2
network 192.168.5.0 0.0.0.255 area 2
```

Router-2:

```
interface Tunnel1
ip address 100.10.10.1 255.255.255.0
tunnel source Serial0/1/0
tunnel destination 192.168.4.2
```

Router-4:

```
interface Tunnel1
ip address 100.10.10.2 255.255.255.0
tunnel source Serial0/1/0
tunnel destination 172.16.4.1
```

```
#show ip ospf traffic
```

```
#shutdown (router OSPF)
```

Change Cost:

```
Router(config)#interface serial 0/3/1
```

```
Router(config-if)#ip ospf cost 100
```