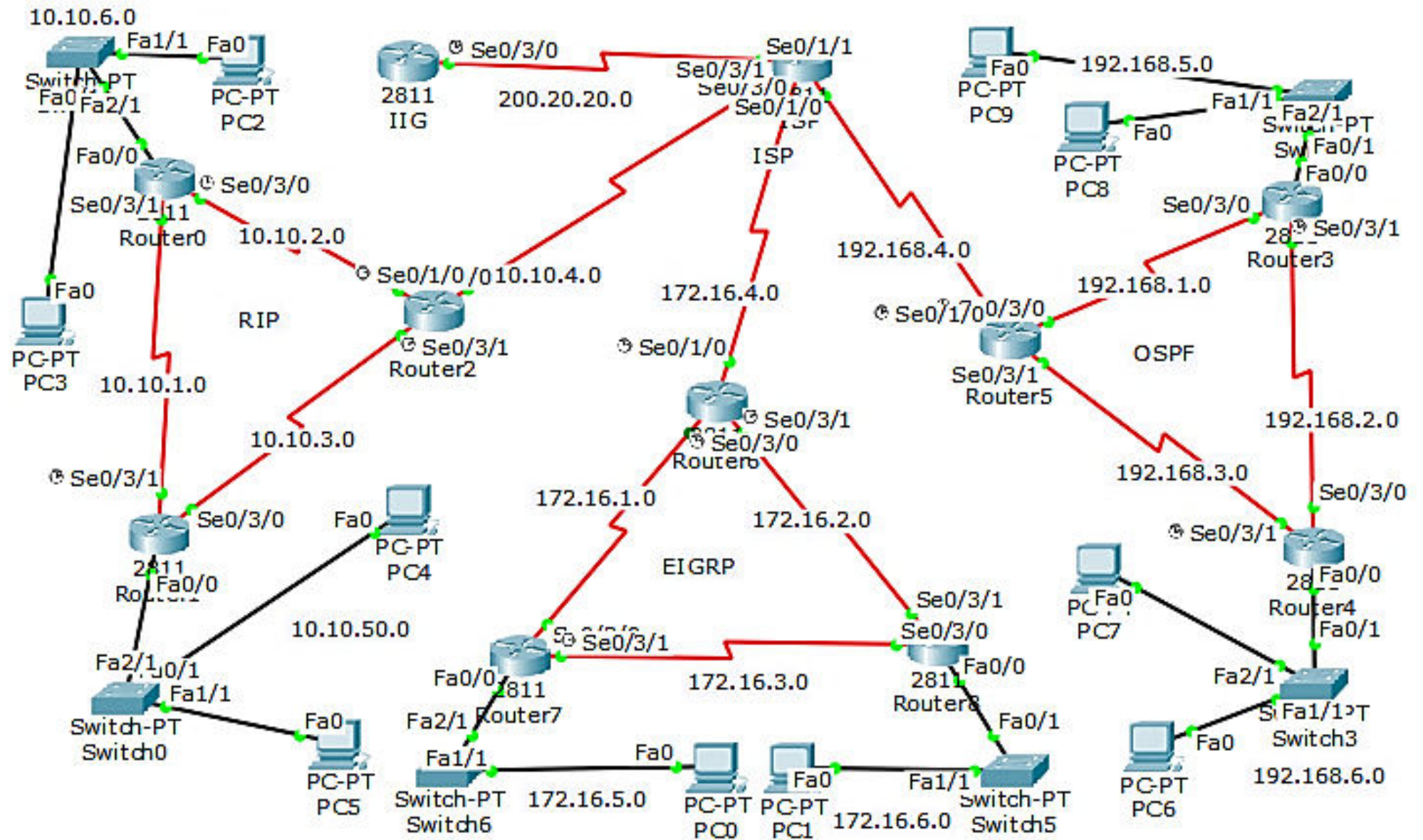


Route Redistribution



Route Redistribution Configuration

NB: All ISPs with RIP, EIGRP & OSPF will give only default to IGWs router, not all all networks.

OSPF:

```
Router(config)#router rip
Router(config-router)#network 10.10.1.0
Router(config-router)#network 10.10.2.0
Router(config-router)#network 10.10.3.0
Router(config-router)#network 10.10.4.0
```

EIGRP:

```
Router(config)#router eigrp 100
Router(config-router)#network 172.16.1.0
Router(config-router)#network 172.16.2.0
Router(config-router)#network 172.16.3.0
Router(config-router)#network 172.16.4.0
```

OSPF:

```
Router(config)#router ospf 1
Router(config-router)#network 192.168.1.0 0.0.0.255 area 0
Router(config-router)#network 192.168.2.0 0.0.0.255 area 0
Router(config-router)#network 192.168.3.0 0.0.0.255 area 0
Router(config-router)#network 192.168.4.0 0.0.0.255 area 0
```

ISP Router (Configure Routing Protocol in Interfaces):

```
Router(config)# interface serial 0/3/1
Router(config-if)#router rip
Router(config-if)#network 10.10.4.0
Router(config)# interface serial 0/3/0
Router(config-if)#router eigrp 100
Router(config-if)#network 172.16.4.0
```

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

Router(config-if)#router ospf 1

Router(config-router)#network 192.168.4.0 0.0.0.255 area 0

ISP Router (Convert OSPF & EIGRP Protocol into RIP Protocol:

Router(config)#router rip

Router(config-router)#redistribute ospf 1 metric 3

Router(config-router)#redistribute eigrp 100 metric 5

ISP Router (Convert RIP & EIGRP Protocol into OSPF Protocol:

Router(config)#router ospf 1

Router(config-router)#redistribute rip subnets

Router(config-router)#redistribute eigrp 100 subnets

ISP Router (Convert RIP & OSPF Protocol into EIGRP Protocol:

Router(config)#router eigrp 100

Router(config-router)#redistribute rip metric 10000 1500 250 100 1500 (5 metric values= cost+delay+reliability+load+MTU)

Router(config-router)#redistribute ospf 1 metric 10000 1500 250 100 1500 (5 metric values= cost+delay+reliability+load+MTU)

IIG Router (Default Route):

Router(config)#ip route 0.0.0.0 0.0.0.0 200.20.20.2

ISP Router (Default Route):

Router(config)#ip route 0.0.0.0 0.0.0.0 200.20.20.1

ISP Router (Relationship between Dynamic Routing (RIP) and Default Routing):

Router(config)#router rip

Router(config-router)#default-information originate

ISP Router (Relationship between Dynamic Routing (OSPF) and Default Routing):

Router(config)#router ospf 1

Router(config-router)#default-information originate

ISP Router (Relationship between Dynamic Routing (EIGRp) and Default Routing):

Router(config)#router eigrp 100

Router(config-router)#redistribute static