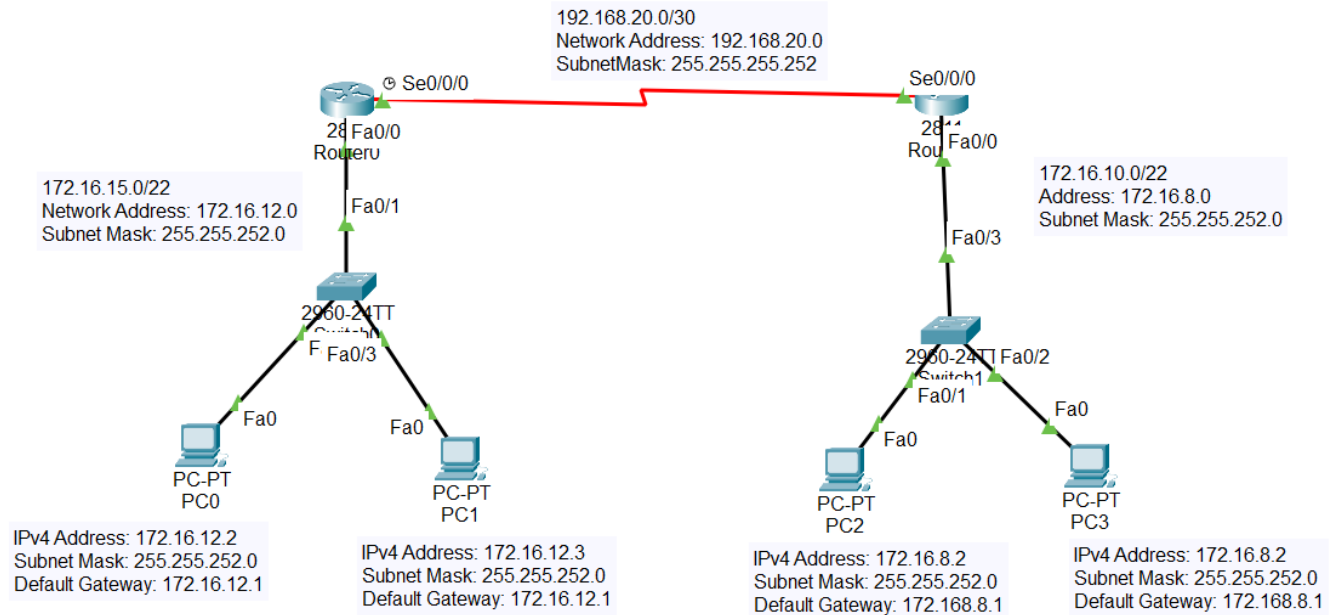


RIP (Routing Information Protocol)



IPv4	# of network bits # of host bits	Network Address	Broadcast Address	Subnet Mask	Range of available host IPs
172.16.15.0/22	Network: 22 bits Host: 10 bits	172.16.12.0	172.16.15.255	255.255.252.0	172.16.12.1 to 172.16.15.254
172.16.10.0/22	Network: 22 bits Host: 10 bits	172.16.8.0	172.16.11.255	255.255.252.0	172.16.8.1 to 172.16.11.254
192.168.20.0/30	Network: 30 bits Host: 2 bits	192.168.20.0	192.168.20.3	255.255.255.252	192.168.20.1 to 192.168.20.2

Configure Routers:

Router0:

```
no
Router>enable
Router#configure terminal

Router(config)#interface fastethernet0/0
Router(config-if)#ip address 172.16.12.1 255.255.252.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#

Router(config)#interface serial0/0/0
Router(config-if)#ip address 192.168.20.1 255.255.255.252
Router(config-if)#no shutdown
Router(config-if)#exit
```

Router1:

```
no
Router>enable
Router#configure terminal

Router(config)#interface fastethernet0/0
Router(config-if)#ip address 172.16.8.1 255.255.252.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#

Router(config)#interface serial0/0/0
Router(config-if)#ip address 192.168.20.2 255.255.255.252
Router(config-if)#no shutdown
Router(config-if)#exit
```

**Configure PCs

RIP:

Router0:

```
Router(config)# router rip
Router(config-router)# version 2
Router(config-router)# network 172.16.12.0
Router(config-router)# network 192.168.20.0
Router(config-router)# no auto-summary
Router(config-router)# exit
Router(config)#
```

Router1:

```
Router(config)# router rip
Router(config-router)# version 2
Router(config-router)# network 172.16.8.0
Router(config-router)# network 192.168.20.0
Router(config-router)# no auto-summary
Router(config-router)# exit
Router(config)#
```