

Static Routing with three Router

Router 1:

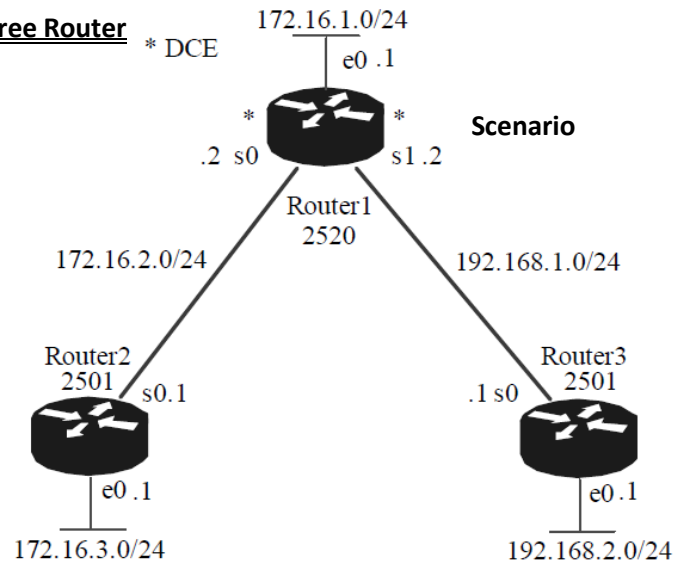
```
Router>en
Router#config t
Router(config)#interface f0/0
Router(config-if)#ip address 172.16.1.1 255.255.255.0
Router(config-if)#no shut
Router(config-if)#interface s2/0
Router(config-if)#ip address 172.16.2.2 255.255.255.0
Router(config-if)#no shut
Router(config-if)#interface s3/0
Router(config-if)#clock rate 64000
Router(config-if)#ip address 192.168.1.2 255.255.255.0
Router(config-if)#no shut
Router(config-if)#exit
Router(config)#exit
Router#copy run start
Router#config t
Router(config)#ip route 172.16.3.0 255.255.255.0 172.16.2.1
Router(config)#ip route 192.168.2.0 255.255.255.0 192.168.1.1
Router(config)#exit
Router#copy run start
```

Router 2:

```
Router>en
Router#config t
Router(config)#interface f0/0
Router(config-if)#ip address 172.16.3.1 255.255.255.0
Router(config-if)#no shut
Router(config-if)#interface s2/0
Router(config-if)#clock rate 64000
Router(config-if)#ip address 172.16.2.1 255.255.255.0
Router(config-if)#no shut
Router(config-if)#exit
Router(config)#exit
Router#copy run start
Router#config t
Router(config)#ip route 172.16.1.0 255.255.255.0 172.16.2.2
Router(config)#ip route 192.168.1.0 255.255.255.0 172.16.2.2
Router(config)#ip route 192.168.2.0 255.255.255.0 172.16.2.2
Router(config)#exit
Router#copy run start
```

Router 3:

```
Router>en
Router#config t
Router(config)#interface f0/0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#no shut
Router(config-if)#interface s2/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shut
```



```
Router(config-if)#exit
Router(config)#exit
Router#copy run start
Router#config t
Router(config)#ip route 172.16.1.0 255.255.255.0 192.168.1.2
Router(config)#ip route 172.16.2.0 255.255.255.0 192.168.1.2
Router(config)#ip route 172.16.3.0 255.255.255.0 192.168.1.2
Router(config)#exit
Router#copy run start
```

Dynamic Routing (RIP):

Router 1:

```
Router#config t
Router(config)#no ip route 172.16.3.0 255.255.255.0 172.16.2.1
Router(config)#no ip route 192.168.2.0 255.255.255.0 192.168.1.1
Router(config)#router rip
Router(config-router)#network 172.16.2.0
Router(config-router)#network 172.16.1.0
Router(config-router)#network 192.168.1.0
Router(config-router)#exit
Router(config)#exit
Router#copy run start
```

Router 2:

```
Router>en
Router#config t
Router(config)#no ip route 172.16.1.0 255.255.255.0 172.16.2.2
Router(config)#no ip route 192.168.1.0 255.255.255.0 172.16.2.2
Router(config)#no ip route 192.168.2.0 255.255.255.0 172.16.2.2
Router(config)#router rip
Router(config-router)#network 172.16.3.0
Router(config-router)#network 172.16.2.2
Router(config-router)#exit
Router(config)#exit
Router#copy run start
```

Router 3:

```
Router#config t
Router(config)#no ip route 172.16.1.0 255.255.255.0 192.168.1.2
Router(config)#no ip route 172.16.2.0 255.255.255.0 192.168.1.2
Router(config)#no ip route 172.16.3.0 255.255.255.0 192.168.1.2
Router(config)#router rip
Router(config-router)#network 172.16.3.0
Router(config-router)#network 192.168.1.0
Router(config-router)#network 192.168.2.0
Router(config-router)#exit
Router(config)#exit
Router#copy run start
```

