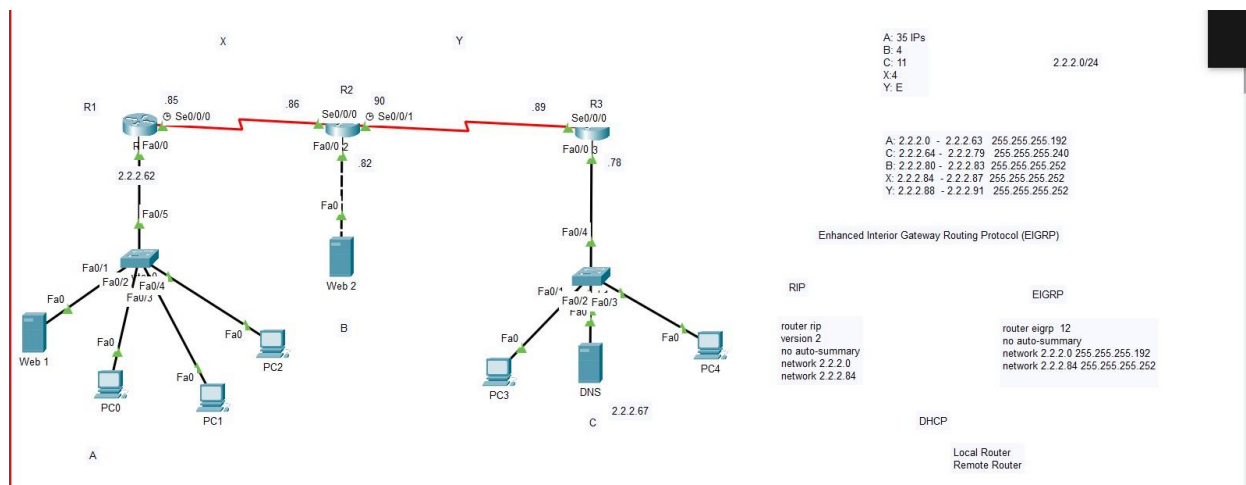


Mid Lab Performance



```
Router(config)#hostname R1
```

```
R1(config)#
```

```
R1(config)#
```

```
R1(config)#interface fa0/0
```

```
R1(config-if)#ip address 2.2.2.62 255.255.255.192
```

```
R1(config-if)#no shut
```

```
R1(config-if)#
```

```
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
```

```
R1(config-if)#int s0/0/0
```

```
R1(config-if)#ip add 2.2.2.85 255.255.255.252
```

```
R1(config-if)#clock rate 64000
```

```
R1(config-if)#no shut
```

```
R2(config)#int s0/0/0
```

```
R2(config-if)#ip add 2.2.2.86 255.255.255.252
```

```
R2(config-if)#no shutdown
```

```
R2(config-if)#
```

```
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
```

```
R2(config-if)#
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
```

```
R2(config-if)#int fa0/0
```

```
R2(config-if)#ip add 2.2.2.82 255.255.255.252
```

```
R2(config-if)#no shutdown
```

```
R2(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
```

```
R2(config-if)#int s0/0/1
R2(config-if)#ip add 2.2.2.90 255.255.255.252
R2(config-if)#clock rate 64000
R2(config-if)#no shut
```

```
Router(config)#hostname R3
R3(config)#
R3(config)#
R3(config)#
R3(config)#int s0/0/0
R3(config-if)#ip add 2.2.2.89 255.255.255.252
R3(config-if)#no shut
```

```
R3(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
```

```
R3(config-if)#
R3(config-if)#int
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
```

```
^
```

```
% Invalid input detected at '^' marker.
R3(config-if)#int fa0/0
R3(config-if)#ip add 2.2.2.78 255.255.255.240
R3(config-if)#no shutdown
```

Routing Configuration (EIGRP)

```
R1(config)#router eigrp 12
R1(config-router)#no auto-summary
R1(config-router)#network 2.2.2.0 255.255.255.192
R1(config-router)#network 2.2.2.84 255.255.255.252
R1(config-router)#
```

```
R2(config)#router eigrp 12
R2(config-router)#no auto-summary
R2(config-router)#network 2.2.2.84 255.255.255.252
R2(config-router)#
```

%DUAL-5-NBRCHANGE: IP-EIGRP 12: Neighbor 2.2.2.85 (Serial0/0/0) is up: new adjacency

R2(config-router)#network 2.2.2.80 255.255.255.252

R2(config-router)#network 2.2.2.88 255.255.255.252

R3(config)#router eigrp 12

R3(config-router)#no auto-summary

R3(config-router)#network 2.2.2.88 255.255.255.252

R3(config-router)#

%DUAL-5-NBRCHANGE: IP-EIGRP 12: Neighbor 2.2.2.90 (Serial0/0/0) is up: new adjacency

R3(config-router)#network 2.2.2.64 255.255.255.240

DHCP Server configuration for the Network a (using R1 as the DHCP server)

R1(config)#ip dhcp pool OnlineClass

R1(dhcp-config)#network 2.2.2.0 255.255.255.192

R1(dhcp-config)#default-router 2.2.2.62

R1(dhcp-config)#dns-server 2.2.2.67

R1(dhcp-config)#ip dhcp excluded-address 2.2.2.2 2.2.2.17

DHCP server configuration for the network C (using R2 as the DHCP server)

R2(config)#ip dhcp pool RemoteRoute

R2(dhcp-config)#network 2.2.2.64 255.255.255.240

R2(dhcp-config)#default-router 2.2.2.78

R2(dhcp-config)#dns-server 2.2.2.67

R2(dhcp-config)#ip dhcp excluded-address 2.2.2.67

R3(config)#interface fa0/0

R3(config-if)#ip helper-address 2.2.2.90