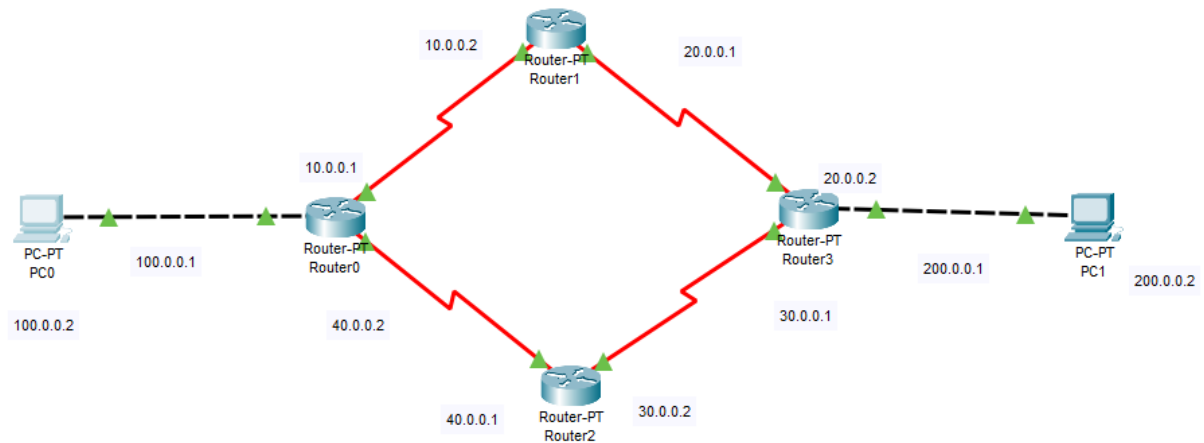


OUTPUTS:

Topology:



PC0 Configuration:

IP Configuration	
Interface	FastEthernet0
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	100.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	100.0.0.1
DNS Server	0.0.0.0

PC1 Configuration:

IP Configuration	
Interface	FastEthernet0
IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	100.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	100.0.0.1
DNS Server	0.0.0.0

Router 0 Configuration:

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int se2/0
Router(config-if)#ip add 10.0.0.1 255.0.0.0
Router(config-if)#clock rate 64000
Router(config-if)#bandwidth 72000
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#int se3/0
Router(config-if)#ip add 40.0.0.2 255.0.0.0
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial3/0, changed state to down
Router(config-if)#exit
Router(config)#int se3/0
Router(config-if)#ip add 40.0.0.2 255.0.0.0
Router(config-if)#no shut
Router(config-if)#exit
Router(config)#int fa0/0
Router(config-if)#ip add 100.0.0.1 255.0.0.0
Router(config-if)#no shut
```

```
% Invalid input detected at marker.

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 10
Router(config-router)#network 10.0.0.0
Router(config-router)#network 40.0.0.0
Router(config-router)#network 100.0.0.0
Router(config-router)#
Router(config-router)#end
Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#
%SYS-5-CONFIG_I: Configured from console by console

%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 10.0.0.2 (Serial2/0) is up:
new adjacency

%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 40.0.0.1 (Serial3/0) is up:
new adjacency
```

Router 1 Configurations:

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int se2/0
Router(config-if)#ip add 10.0.0.2 255.0.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

Router(config-if)#exit
Router(config)#ont se3/0
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed
state to up

      ^
% Invalid input detected at '^' marker.

Router(config)#int se3/0
Router(config-if)#ip add 20.0.0.1 255.0.0.0
Router(config-if)#clock rate 64000
Router(config-if)#bandwidth 72000
Router(config-if)#no shut

state to up

Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 10
Router(config-router)#network 10.0.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 10.0.0.1 (Serial2/0) is up:
new adjacency

Router(config-router)#network 20.0.0.0
Router(config-router)#
Router(config-router)#end
Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#
%SYS-5-CONFIG_I: Configured from console by console

%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 20.0.0.2 (Serial3/0) is up:
new adjacency
```

Router 2 Configurations:

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int se3/0
Router(config-if)#ip add 30.0.0.2 255.0.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up

Router(config-if)#exit
Router(config)#int se2/0
Router(config-if)#ip add
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed
state to up

% Incomplete command.
Router(config-if)#ip add 40.0.0.1 255.0.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%SYS-5-CONFIG_I: Configured from console by console

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed
state to up

Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 10
Router(config-router)#network 30.0.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 30.0.0.1 (Serial3/0) is up:
new adjacency

Router(config-router)#network 40.0.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 40.0.0.2 (Serial2/0) is up:
new adjacency

Router(config-router)#
Router(config-router)#end
Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#
```

Router 3 Configurations:

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int se2/0
Router(config-if)#ip add 20.0.0.2 255.0.0.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

Router(config-if)#exit
Router(config)#int se3/0
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed
state to up
ipi
Router(config-if)#ip add 30.0.0.1 255.0.0.0
Router(config-if)#clock rate 64000
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial3/0, changed state to down
Router(config-if)#exit
Router(config)#int fa0/0
Router(config-if)#ip add 200.0.0.1 255.0.0.0
```

```
%LINK-5-CHANGED: Interface Serial3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed
state to up

Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router eigrp 10
Router(config-router)#network 20.0.0.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 20.0.0.1 (Serial2/0) is up:
new adjacency
nen
Router(config-router)#network 30.0.0.0
Router(config-router)#network 200.0.0.0
Router(config-router)#
Router(config-router)#end
Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Pinging PC0 to PC1:

```
Command Prompt X

Packet Tracer PC Command Line 1.0
C:\>ping 200.0.0.2

Pinging 200.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 200.0.0.2: bytes=32 time=9ms TTL=125
Reply from 200.0.0.2: bytes=32 time=2ms TTL=125
Reply from 200.0.0.2: bytes=32 time=9ms TTL=125

Ping statistics for 200.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 9ms, Average = 6ms

C:\>|
```

Final Output:

```
% Invalid input detected at '^' marker.

Router#show ip eigrp topology all links
      ^
% Invalid input detected at '^' marker.

Router#show ip eigrp topology
IP-EIGRP Topology Table for AS 10/ID(100.0.0.1)

Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
       r - Reply status

P 10.0.0.0/8, 1 successors, FD is 547328
   via Connected, Serial2/0
P 20.0.0.0/8, 1 successors, FD is 1059328
   via 10.0.0.2 (1059328/547328), Serial2/0
P 30.0.0.0/8, 1 successors, FD is 21024000
   via 40.0.0.1 (21024000/20512000), Serial3/0
P 40.0.0.0/8, 1 successors, FD is 20512000
   via Connected, Serial3/0
P 100.0.0.0/8, 1 successors, FD is 28160
   via Connected, FastEthernet0/0
P 200.0.0.0/8, 1 successors, FD is 1061888
   via 10.0.0.2 (1061888/549888), Serial2/0
Router#
```