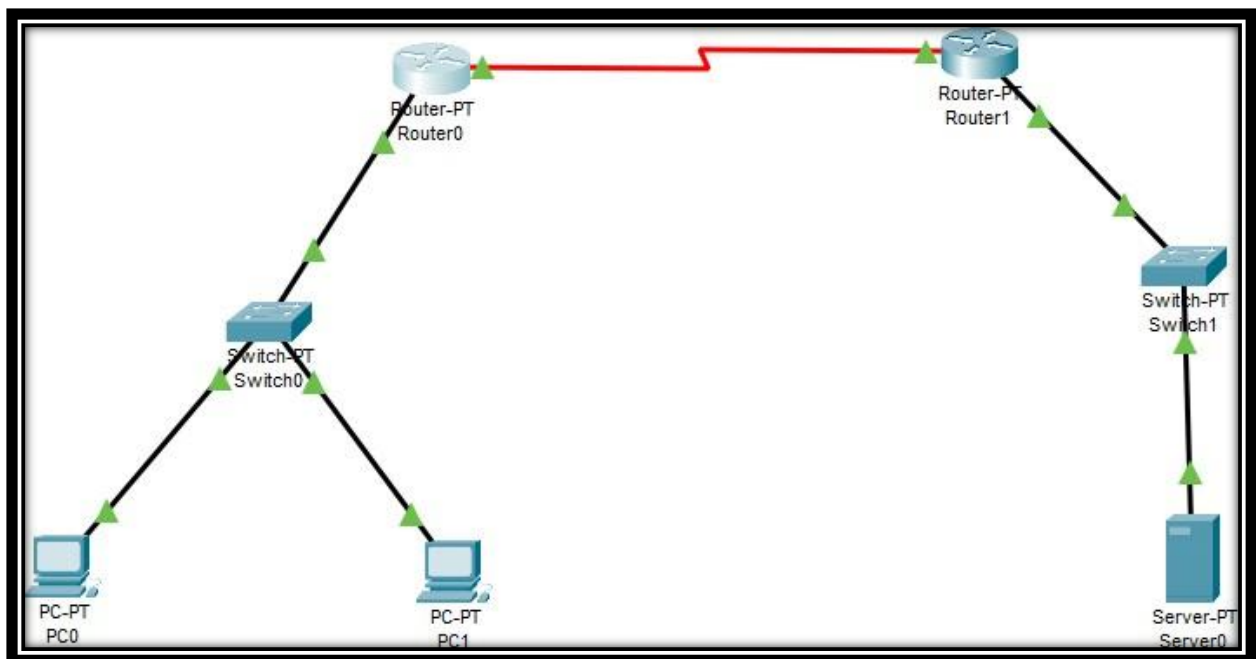


Topology:



PC0 Configuration:

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.2.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.2.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::260:3EFF:FEB1:3280

IPv6 Gateway:

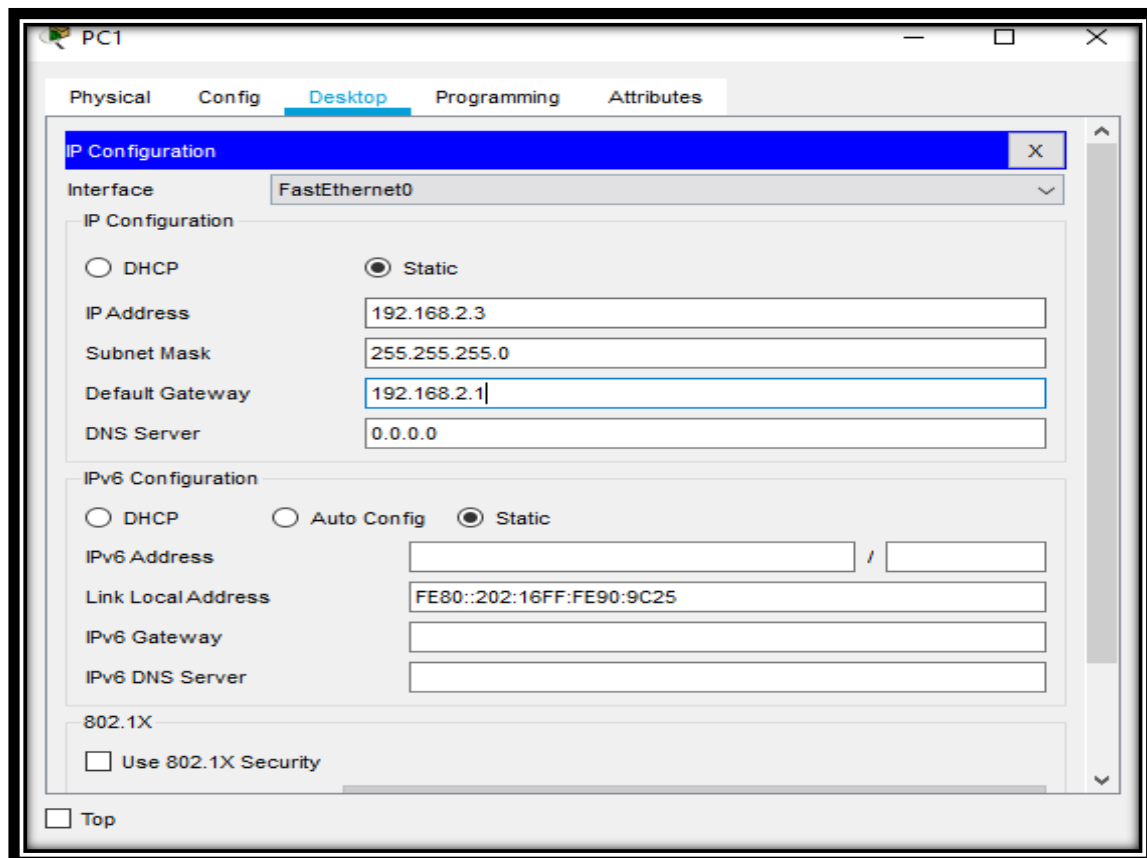
IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

PC1 Configuration:



The image shows a configuration window for PC1. The 'Desktop' tab is selected. The 'IP Configuration' section is expanded, showing the 'FastEthernet0' interface. The 'Static' radio button is selected for IP Configuration. The IP Address is 192.168.2.3, Subnet Mask is 255.255.255.0, Default Gateway is 192.168.2.1, and DNS Server is 0.0.0.0. The 'IPv6 Configuration' section is also expanded, showing the 'Static' radio button selected. The IPv6 Address is empty, Link Local Address is FE80::202:16FF:FE90:9C25, IPv6 Gateway is empty, and IPv6 DNS Server is empty. The '802.1X' section is expanded, showing the 'Use 802.1X Security' checkbox is unchecked. A 'Top' button is at the bottom left.

PC1

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.2.3

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.2.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::202:16FF:FE90:9C25

IPv6 Gateway:

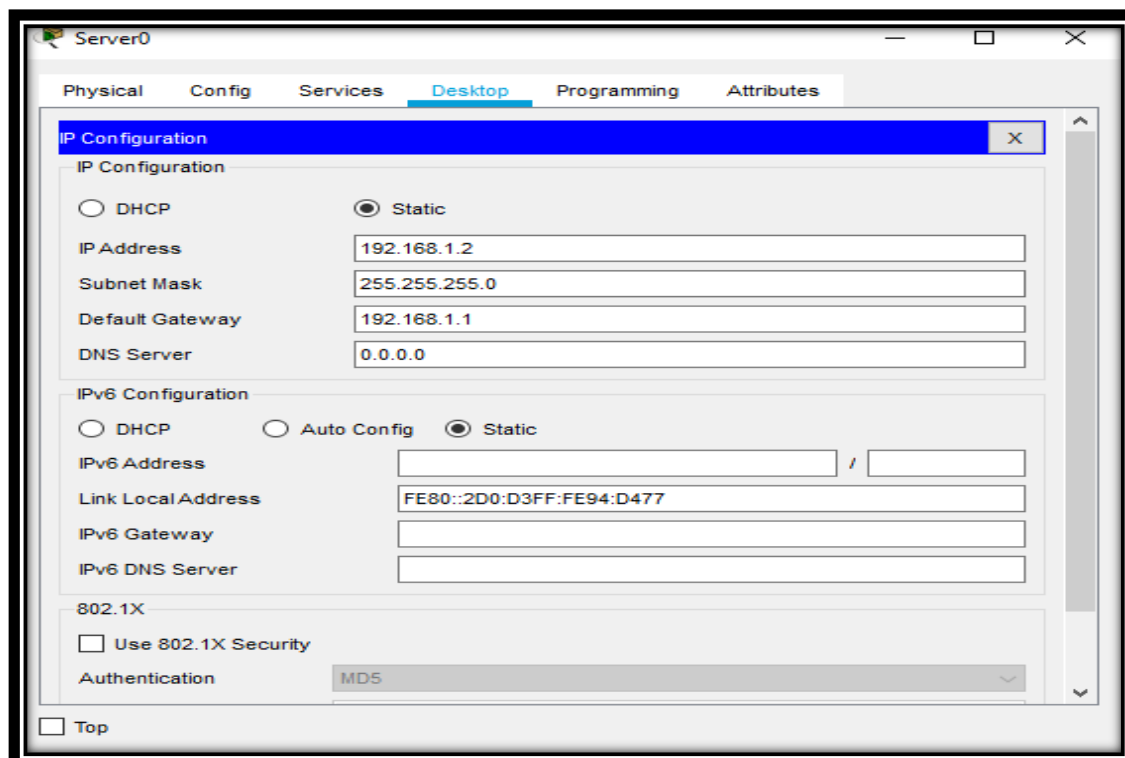
IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

☐ Top

Server Configuration:



The image shows a configuration window for Server0. The 'Desktop' tab is selected. The 'IP Configuration' section is expanded, showing the 'Static' radio button selected. The IP Address is 192.168.1.2, Subnet Mask is 255.255.255.0, Default Gateway is 192.168.1.1, and DNS Server is 0.0.0.0. The 'IPv6 Configuration' section is also expanded, showing the 'Static' radio button selected. The IPv6 Address is empty, Link Local Address is FE80::2D0:D3FF:FE94:D477, IPv6 Gateway is empty, and IPv6 DNS Server is empty. The '802.1X' section is expanded, showing the 'Use 802.1X Security' checkbox is unchecked. The 'Authentication' dropdown is set to 'MD5'. A 'Top' button is at the bottom left.

Server0

Physical Config Services **Desktop** Programming Attributes

IP Configuration [X]

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::2D0:D3FF:FE94:D477

IPv6 Gateway:

IPv6 DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

☐ Top

Router 1 Configuration:

```
Router>en
Router# conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#host r1
r1(config)#int fa0/0
r1(config-if)#ip add 192.168.2.2 255.255.255.0
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 se2/0
r1(config-if)#ip add 10.0.0.2 255.0.0.0
r1(config-if)#clock rate 64000
r1(config-if)#no shut

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
r1(config-if)#router rip
r1(config-router)#net 10.0.0.0
r1(config-router)#net 192.168.2.0
r1(config-router)#end
r1#
```

Static NAT:

```
r1#en
r1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
r1(config)#ip nat inside source static 192.168.2.2 122.1.1.1
r1(config)#int fa0/0
r1(config-if)#ip nat inside
r1(config-if)#int se2/0
r1(config-if)#ip nat outside
r1(config-if)#exit
r1(config)#
r1#
%SYS-5-CONFIG_I: Configured from console by console

r1#show ip nat translations
Pro Inside global      Inside local           Outside local          Outside
global
--- 122.1.1.1           192.168.2.2           ---                    ---

r1#show ip nat translations
Pro Inside global      Inside local           Outside local          Outside
global
--- 122.1.1.1           192.168.2.2           ---                    ---

r1#
```

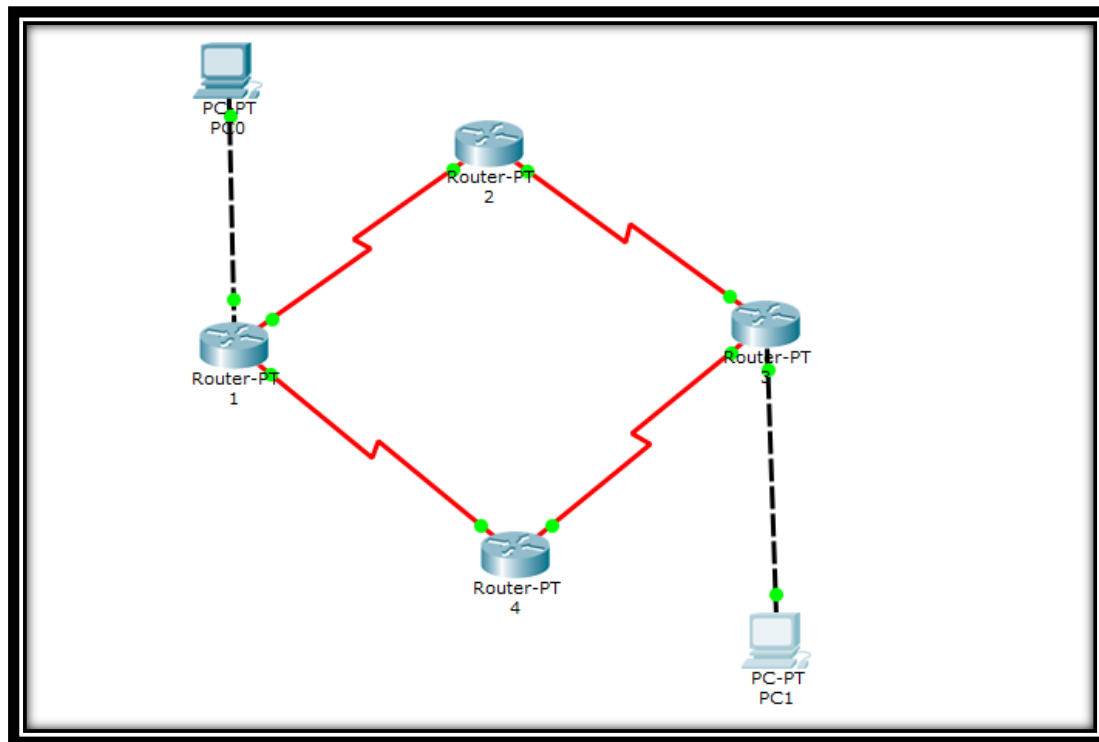
Dynamic NAT:

```
rl#en
rl#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
rl(config)#access-list 1 permit 192.168.2.3 0.0.0.255
rl(config)#ip nat pool pool1 122.1.1.3 122.1.1.4 netmask 255.255.255.0
rl(config)#ip nat inside source list 1 pool pool1
rl(config)#int fa0/0
rl(config-if)#ip nat inside
rl(config-if)#int se2/0
rl(config-if)#ip nat outside
rl(config-if)#
rl#
%SYS-5-CONFIG_I: Configured from console by console

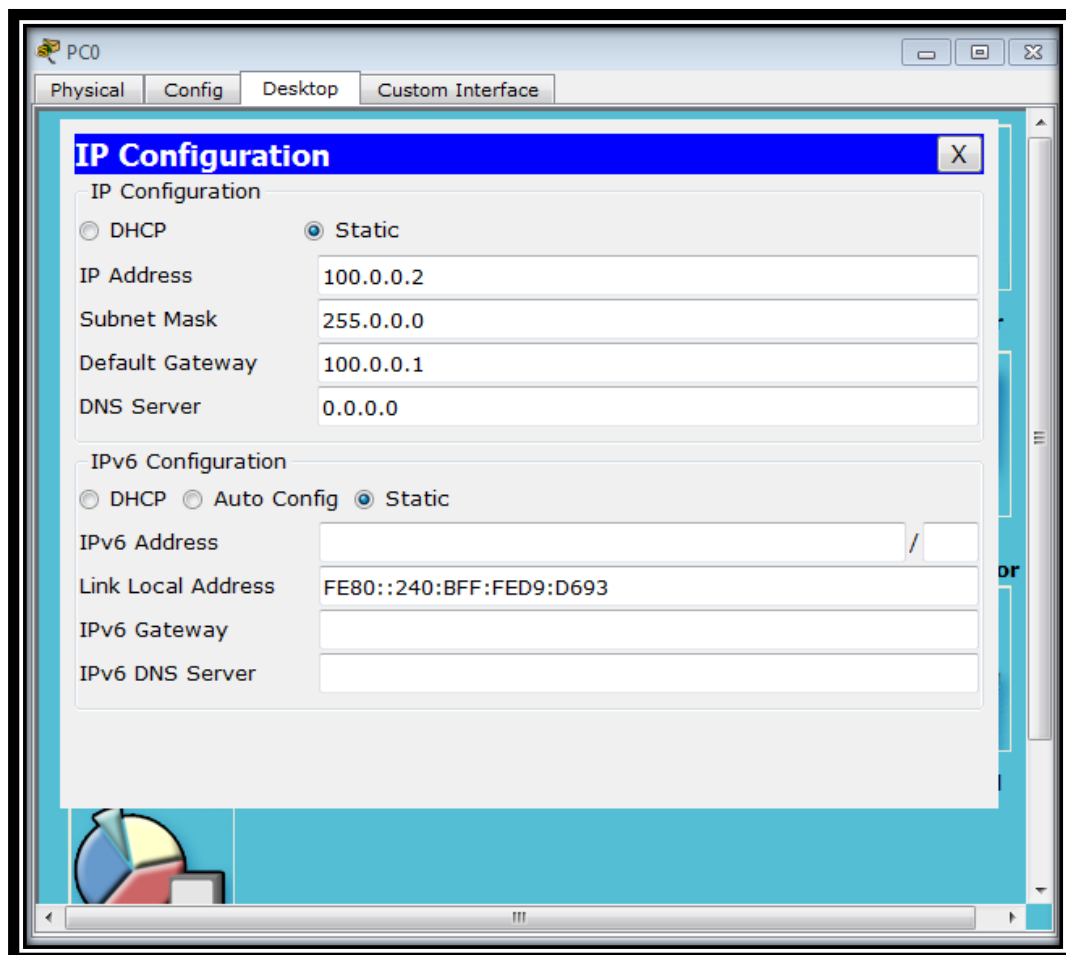
rl#show ip nat translations
Pro  Inside global      Inside local      Outside local      Outside global
---  122.1.1.1             192.168.2.2      ---               ---

rl#
rl#exit
```

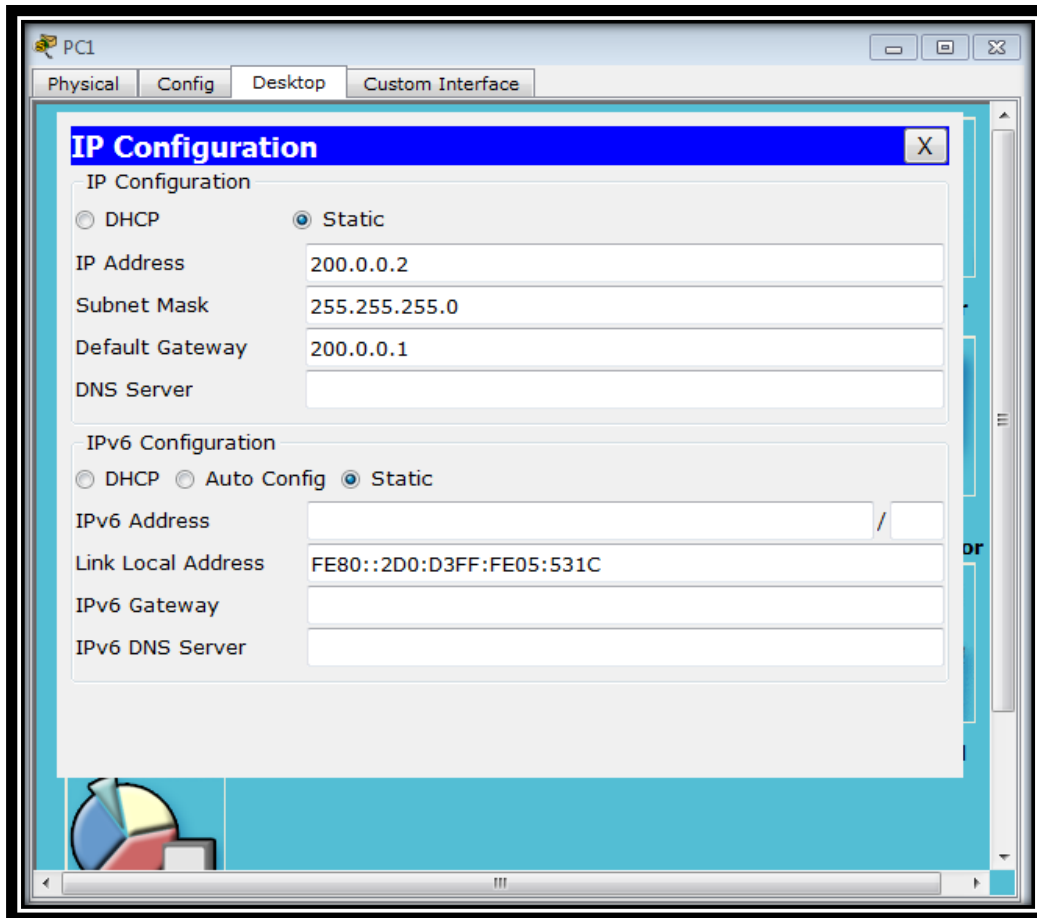
Topology:



PC0 Configuration:



PC1 Configuration:



The screenshot shows a 'PC1' configuration window with tabs for 'Physical', 'Config', 'Desktop', and 'Custom Interface'. The 'Config' tab is active, displaying the 'IP Configuration' dialog. In the 'IP Configuration' section, 'Static' is selected. The fields are filled with: IP Address: 200.0.0.2, Subnet Mask: 255.255.255.0, Default Gateway: 200.0.0.1, and DNS Server: (empty). The 'IPv6 Configuration' section has 'Static' selected, with fields for IPv6 Address (empty), Link Local Address: FE80::2D0:D3FF:FE05:531C, IPv6 Gateway (empty), and IPv6 DNS Server (empty). A taskbar with a clock and icons is visible at the bottom.

IP Configuration	
<input type="radio"/> DHCP <input checked="" type="radio"/> Static	
IP Address	200.0.0.2
Subnet Mask	255.255.255.0
Default Gateway	200.0.0.1
DNS Server	

IPv6 Configuration	
<input type="radio"/> DHCP <input type="radio"/> Auto Config <input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::2D0:D3FF:FE05:531C
IPv6 Gateway	
IPv6 DNS Server	

Router 1 Configuration:

```
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
Router(config-if)#exit
Router(config)#int s3/0
Router(config-if)#ip add 40.0.0.2 255.0.0.0
Router(config-if)#no shut
Router(config-if)#exit
Router(config)#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)#
```

Copy

Pas

Router 2 Configuration:

```
Router(config)#router eigrp 10
Router(config-router)#network 10.0.0.0
Router(config-router)#network 20.0.0.0
Router(config-router)#
```

Router 3 Configuration:

```
Router(config)#router eigrp 10
Router(config-router)#network 20.0.0.0
Router(config-router)#network 30.0.0.0
Router(config-router)#network 200.0.0.0
Router(config-router)#
```

Router 4 Configuration:

```
Router(config)#router eigrp 10
Router(config-router)#network 30.0.0.0
Router(config-router)#network 40.0.0.0
Router(config-router)#
```

Output :

```
Router#show ip route eigrp
D    20.0.0.0/8 [90/21024000] via 10.0.0.2, 00:17:52, Serial2/0
Router#
Router#show ip eigrp neighbors
IP-EIGRP neighbors for process 10
H   Address             Interface       Hold Uptime    SRTT   RTO   Q   Seq
                               (sec)          (ms)          Cnt   Num
0   10.0.0.2             Se2/0          12   00:18:06    40    1000  0    6

Router#
Router#show ip eigrp topology all-link
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 21024000
    via 10.0.0.2 (21024000/20512000), Serial2/0
P 100.0.0.0/8, 1 successors, FD is 28160
    via Connected, FastEthernet0/0
Router#
```