Router1:

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastethernet0/0

Router(config-if)#ip address 172.16.1.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#interface serial2/0
Router(config-if)#ip address 172.16.2.2 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#interface serial3/0
Router(config-if)#ip address 192.168.1.2 255.255.255.0
Router(config-if)#no shutdown

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

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

Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
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#
%SYS-5-CONFIG_I: Configured from console by console

Router#copy run start
Destination filename [startup-config]?
Building configuration...

[OK]
Router#

Router 2:

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastethernet0/0
Router(config-if)#ip address 172.16.3.1 255.255.255.0
Router(config-if)#no shutdown

Router(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

Router(config-if)#interface serial2/0
Router(config-if)#ip address 172.16.2.1 255.255.255.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 172.16.3.0
Router(config-router)#network 172.16.2.0
Router(config-router)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#copy run start
Destination filename [startup-config]?

Building configuration...
[OK]
Router#

Router 3:

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastethernet 0/0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#interface serial2/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network
% Incomplete command.
Router(config-router)#network 192.168.1.0
Router(config-router)#network 192.168.2.0
Router(config-router)#exit
Router(config)#exit
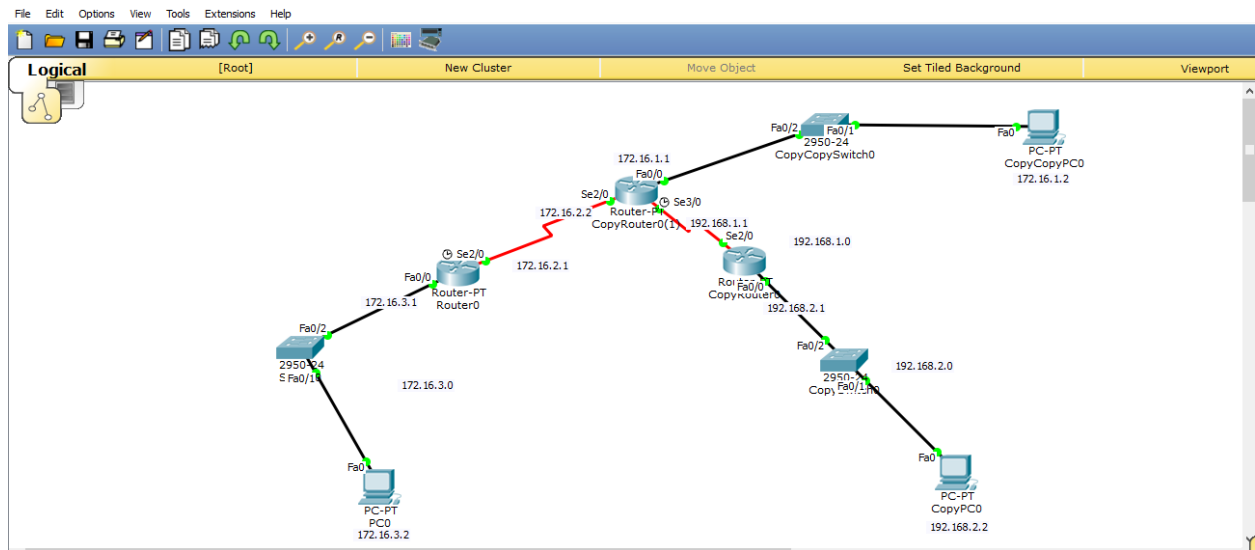Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
Router#

Logical   [Root]   New Cluster   Move Object   Set Tiled Background   Viewport

Fa0/2   Fa0/1
2950-24
CopyCopySwitch0

Fa0
PC-PT
CopyCopyPC0
172.16.1.2

172.16.1.1
Fa0/0

Se2/0   Se3/0
Router-P
CopyRouter0(1)

172.16.2.2   192.168.1.1
Se2/0
192.168.1.0

Se2/0
Fa0/0
Router-PT
Router0

172.16.2.1

Fa0/0
CopyRouter0

172.16.3.1
192.168.2.1

Fa0/2
2950-24
S Fa0/1
Fa0/2
2950-2
Copy
Fa0/1

172.16.3.0
192.168.2.0

Fa0
PC-PT
PC0
172.16.3.2

Fa0
PC-PT
CopyPC0
192.168.2.2

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time=2ms TTL=125
Reply from 192.168.2.2: bytes=32 time=2ms TTL=125
Reply from 192.168.2.2: bytes=32 time=2ms TTL=125
Reply from 192.168.2.2: bytes=32 time=2ms TTL=125

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 2ms, Average = 2ms

PC>ping 172.16.1.2

Pinging 172.16.1.2 with 32 bytes of data:

Reply from 172.16.1.2: bytes=32 time=1ms TTL=126
Reply from 172.16.1.2: bytes=32 time=11ms TTL=126
Reply from 172.16.1.2: bytes=32 time=2ms TTL=126
Reply from 172.16.1.2: bytes=32 time=1ms TTL=126

Ping statistics for 172.16.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 11ms, Average = 3ms

PC>ping 172.16.3.2

Pinging 172.16.3.2 with 32 bytes of data:

Reply from 172.16.3.2: bytes=32 time=22ms TTL=128
Reply from 172.16.3.2: bytes=32 time=0ms TTL=128
Reply from 172.16.3.2: bytes=32 time=16ms TTL=128
Reply from 172.16.3.2: bytes=32 time=0ms TTL=128

Ping statistics for 172.16.3.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)
```

```
        Minimum = 2ms, Maximum = 2ms, Average = 2ms

PC>ping 172.16.1.2

Pinging 172.16.1.2 with 32 bytes of data:

Reply from 172.16.1.2: bytes=32 time=1ms TTL=126
Reply from 172.16.1.2: bytes=32 time=11ms TTL=126
Reply from 172.16.1.2: bytes=32 time=2ms TTL=126
Reply from 172.16.1.2: bytes=32 time=1ms TTL=126

Ping statistics for 172.16.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 11ms, Average = 3ms

PC>ping 172.16.3.2

Pinging 172.16.3.2 with 32 bytes of data:

Reply from 172.16.3.2: bytes=32 time=22ms TTL=128
Reply from 172.16.3.2: bytes=32 time=0ms TTL=128
Reply from 172.16.3.2: bytes=32 time=16ms TTL=128
Reply from 172.16.3.2: bytes=32 time=0ms TTL=128

Ping statistics for 172.16.3.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 22ms, Average = 9ms

PC>
```