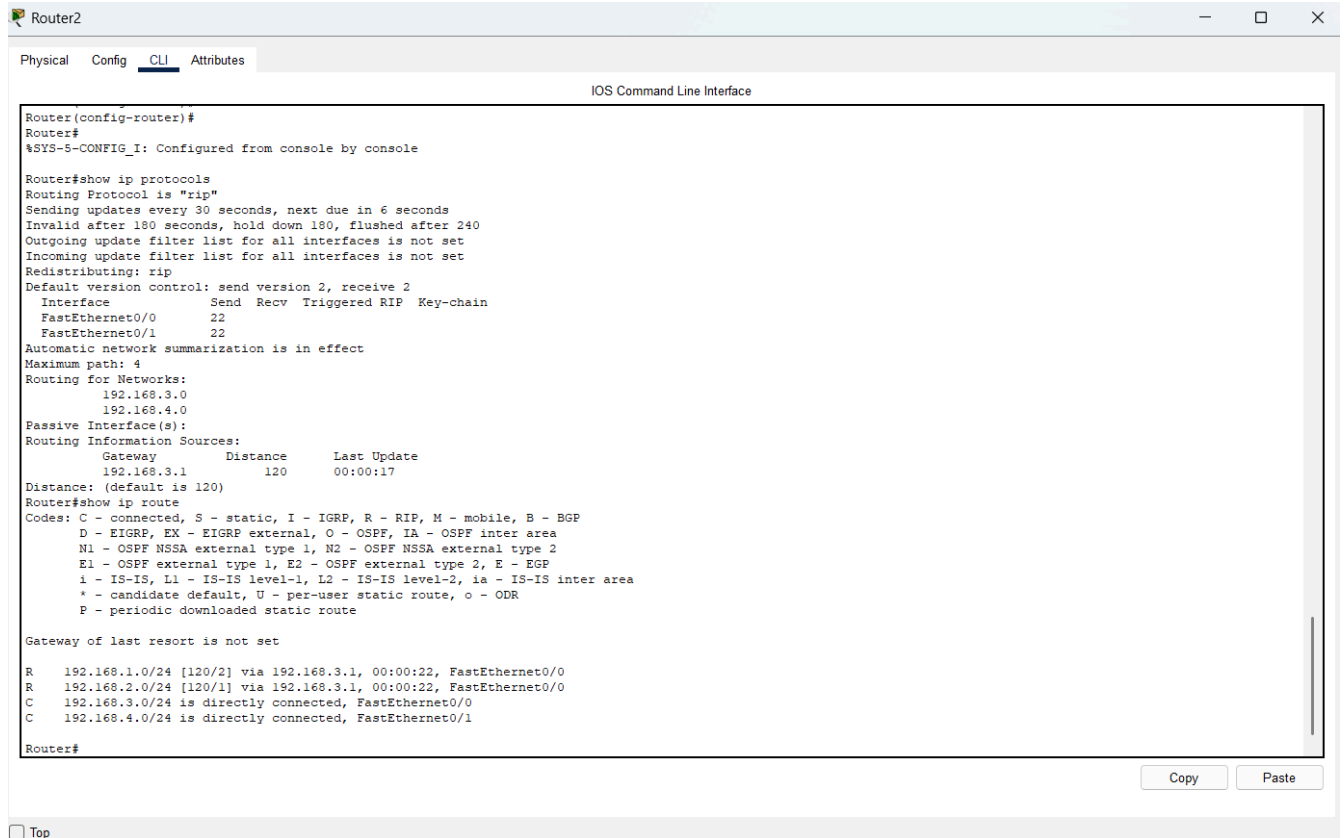


## Adding network



The screenshot shows a Cisco Router CLI window titled "Router2". The window has tabs for "Physical", "Config", "CLI", and "Attributes", with "CLI" selected. The main area displays the "IOS Command Line Interface" with the following output:

```
Router(config-router)#
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#show ip protocols
Routing Protocol is "rip"
  Sending updates every 30 seconds, next due in 6 seconds
  Invalid after 180 seconds, hold down 180, flushed after 240
  Outgoing update filter list for all interfaces is not set
  Incoming update filter list for all interfaces is not set
  Redistributing: rip
  Default version control: send version 2, receive 2
    Interface        Send Recv Triggered RIP Key-chain
  FastEthernet0/0    22
  FastEthernet0/1    22
Automatic network summarization is in effect
Maximum path: 4
Routing for Networks:
  192.168.3.0
  192.168.4.0
Passive Interface(s):
Routing Information Sources:
  Gateway         Distance      Last Update
  192.168.3.1     120          00:00:17
Distance: (default is 120)
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

R    192.168.1.0/24 [120/2] via 192.168.3.1, 00:00:22, FastEthernet0/0
R    192.168.2.0/24 [120/1] via 192.168.3.1, 00:00:22, FastEthernet0/0
C    192.168.3.0/24 is directly connected, FastEthernet0/0
C    192.168.4.0/24 is directly connected, FastEthernet0/1

Router#
```

At the bottom right of the CLI window, there are "Copy" and "Paste" buttons. At the bottom left of the window, there is a "Top" button.

### Commands:

Ip show run and followed commands

Router2


Physical Config **CLI** Attributes

IOS Command Line Interface

```
!
spanning-tree mode pvst
!
!
!
!
!
!
interface FastEthernet0/0
ip address 192.168.3.2 255.255.255.0
duplex auto
speed auto
!
interface FastEthernet0/1
ip address 192.168.4.1 255.255.255.0
duplex auto
speed auto
!
interface Vlan1
no ip address
shutdown
!
router rip
version 2
network 192.168.3.0
network 192.168.4.0
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
!
!
!
!
line con 0
!
line aux 0
!
```

☐ Top

```
Router#
Router#show ip rip database
192.168.1.0/24    auto-summary
192.168.1.0/24
    [2] via 192.168.3.1, 00:00:14, FastEthernet0/0
192.168.2.0/24    auto-summary
192.168.2.0/24
    [1] via 192.168.3.1, 00:00:14, FastEthernet0/0
192.168.3.0/24    auto-summary
192.168.3.0/24    directly connected, FastEthernet0/0
192.168.4.0/24    auto-summary
192.168.4.0/24    directly connected, FastEthernet0/1
Router#
```

 Router0

Physical

Config

CLI

Attributes


IOS Command Line Interface

```
!
!
!
interface FastEthernet0/0
ip address 192.168.1.1 255.255.255.0
duplex auto
speed auto
!
interface FastEthernet0/1
ip address 192.168.2.1 255.255.255.0
duplex auto
speed auto
!
interface Vlan1
no ip address
shutdown
!
router rip
version 2
network 192.168.1.0
network 192.168.2.0
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
!
```

Copy

Paste

☐ Top

 Router1

Physical Config CLI Attributes

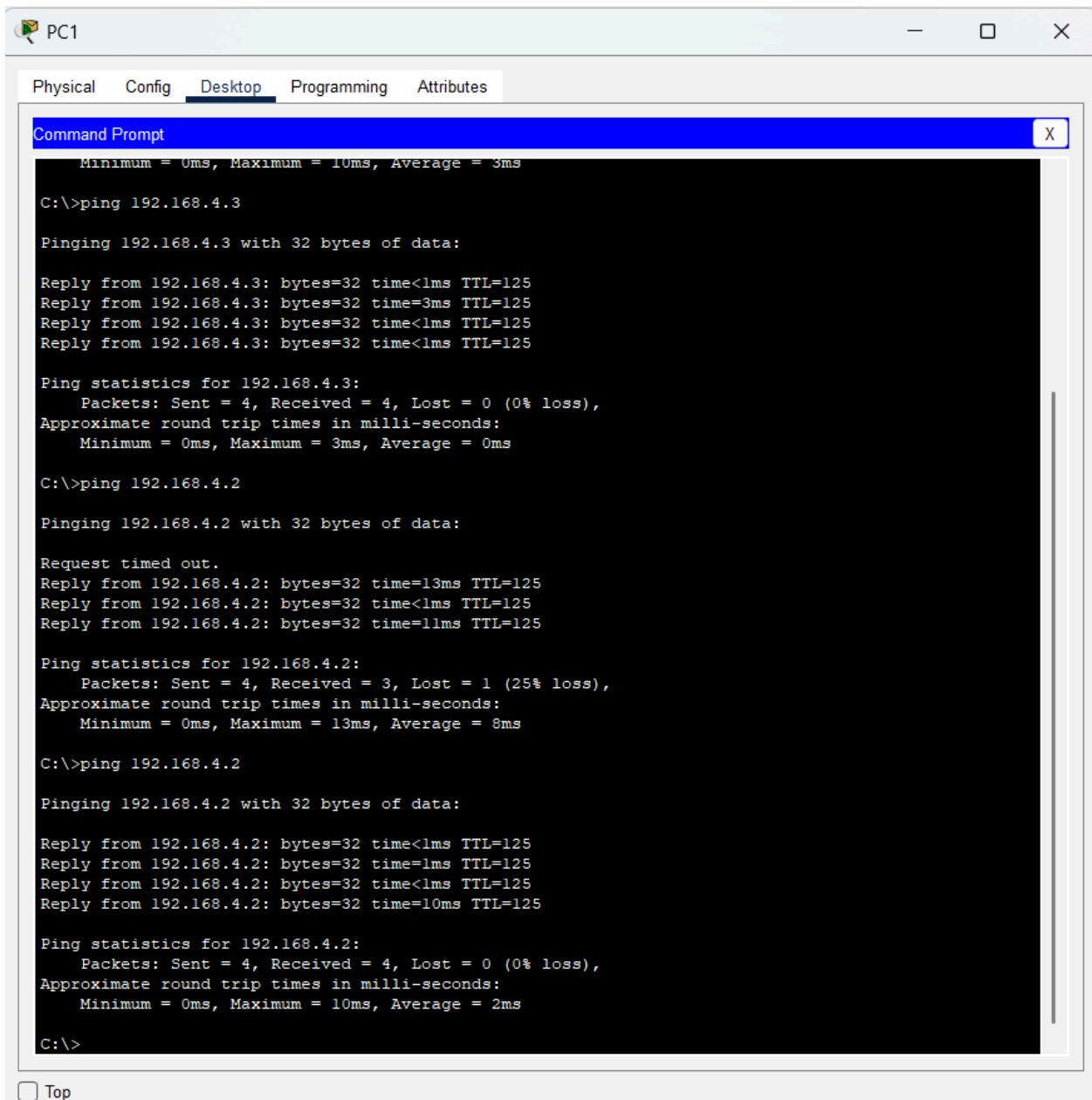
IOS Command Line Interface

```
!
interface FastEthernet0/0
ip address 192.168.2.2 255.255.255.0
duplex auto
speed auto
!
interface FastEthernet0/1
ip address 192.168.3.1 255.255.255.0
duplex auto
speed auto
!
interface Vlan1
no ip address
shutdown
!
router rip
version 2
network 192.168.2.0
network 192.168.3.0
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
!
end
```

Copy Paste

☐ Top

## Ping command



The screenshot shows a PC1 desktop environment with a taskbar at the top. The 'Desktop' tab is selected in the top navigation bar. A 'Command Prompt' window is open, displaying the results of three ping commands. The first command is 'ping 192.168.4.3', which shows successful results with 0% loss and an average round trip time of 3ms. The second command is 'ping 192.168.4.2', which shows a 25% loss (1 packet lost) and an average round trip time of 8ms. The third command is another 'ping 192.168.4.2', which shows successful results with 0% loss and an average round trip time of 2ms. The window has a title bar 'PC1' and standard minimize, maximize, and close buttons. The Command Prompt window has a title bar 'Command Prompt' and a close button. The desktop environment has a light blue background and a taskbar with the 'Desktop' tab selected.

```
Minimum = 0ms, Maximum = 10ms, Average = 3ms

C:\>ping 192.168.4.3

Pinging 192.168.4.3 with 32 bytes of data:

Reply from 192.168.4.3: bytes=32 time<1ms TTL=125
Reply from 192.168.4.3: bytes=32 time=3ms TTL=125
Reply from 192.168.4.3: bytes=32 time<1ms TTL=125
Reply from 192.168.4.3: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.4.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 3ms, Average = 0ms

C:\>ping 192.168.4.2

Pinging 192.168.4.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.4.2: bytes=32 time=13ms TTL=125
Reply from 192.168.4.2: bytes=32 time<1ms TTL=125
Reply from 192.168.4.2: bytes=32 time=11ms TTL=125

Ping statistics for 192.168.4.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 13ms, Average = 8ms

C:\>ping 192.168.4.2

Pinging 192.168.4.2 with 32 bytes of data:

Reply from 192.168.4.2: bytes=32 time<1ms TTL=125
Reply from 192.168.4.2: bytes=32 time=1ms TTL=125
Reply from 192.168.4.2: bytes=32 time<1ms TTL=125
Reply from 192.168.4.2: bytes=32 time=10ms TTL=125

Ping statistics for 192.168.4.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 10ms, Average = 2ms

C:\>
```


☐ Top

## Timers command

```
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#timers basic 10 60 60 80
Router(config-router)#timers basic 10 ?
<1-4294967295> Invalid
Router(config-router)#timers basic 10 timers 10 60 ?
% Unrecognized command
Router(config-router)#timers basic 10 60 ?
<0-4294967295> Holddown
Router(config-router)#timers basic 10 60 60 ?
<1-4294967295> Flush
Router(config-router)#timers basic 10 60 60
```

Copy

Paste

 Router0

Physical

Config

CLI

Attributes

IOS Command Line Interface

```
ip address 192.168.1.1 255.255.255.0
duplex auto
speed auto
!
interface FastEthernet0/1
ip address 192.168.2.1 255.255.255.0
duplex auto
speed auto
!
interface Vlan1
no ip address
shutdown
!
router rip
version 2
timers basic 10 60 60 80
network 192.168.1.0
network 192.168.2.0
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
!
end
```

Copy

Paste

☐ Top