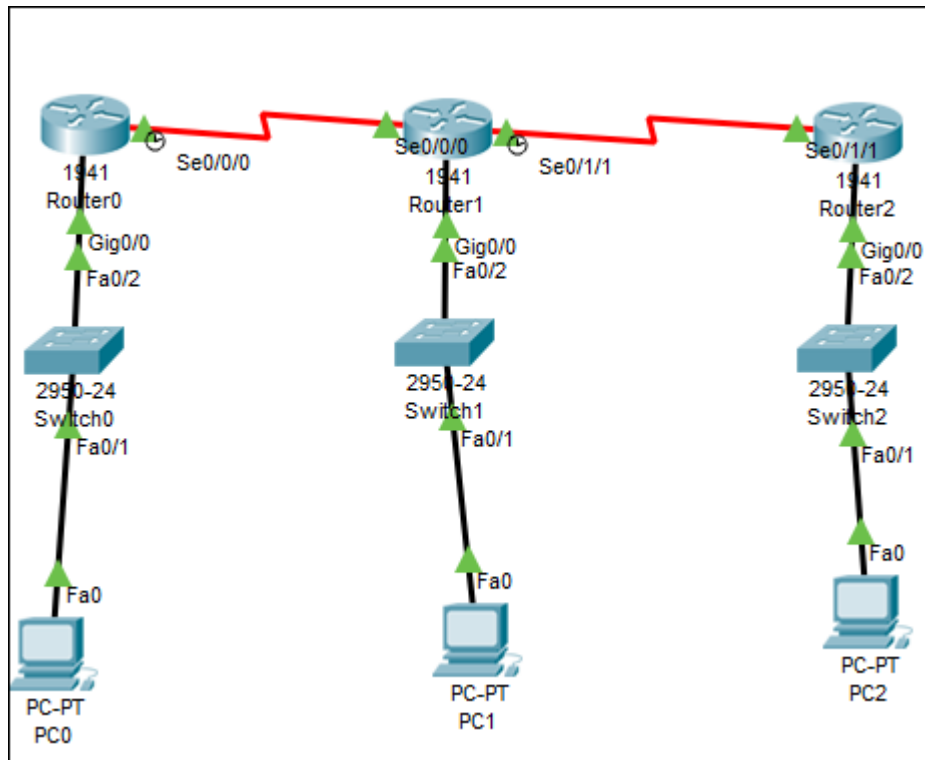



CN practical 5 RIP



 PC0

Physical
 Config
 Desktop
 Programming
 Attributes

☐ DHCP
 ☒ Static

IP Address
 192.168.1.2

Subnet Mask
 255.255.255.0

Default Gateway
 192.168.2.3

DNS Server
 0.0.0.0

IPv6 Configuration

☐ DHCP
 ☐ Auto Config
 ☒ Static

IPv6 Address

 Link Local Address
 FE80::2E0:A3FF:FE9D:510B

 IPv6 Gateway

 IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication
 MD5

 Username

 Password

PC1

Physical Config **Desktop** Programming Attributes

☐ DHCP ☒ Static

IP Address

Subnet Mask

Default Gateway

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication

Username

Password

☐ Top

PC2

Physical Config Desktop Programming Attributes

☐ DHCP ☒ Static

IP Address 192.168.3.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.3.3

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::210:11FF:FE64:3968

IPv6 Gateway

IPv6 DNS Server

802.1X

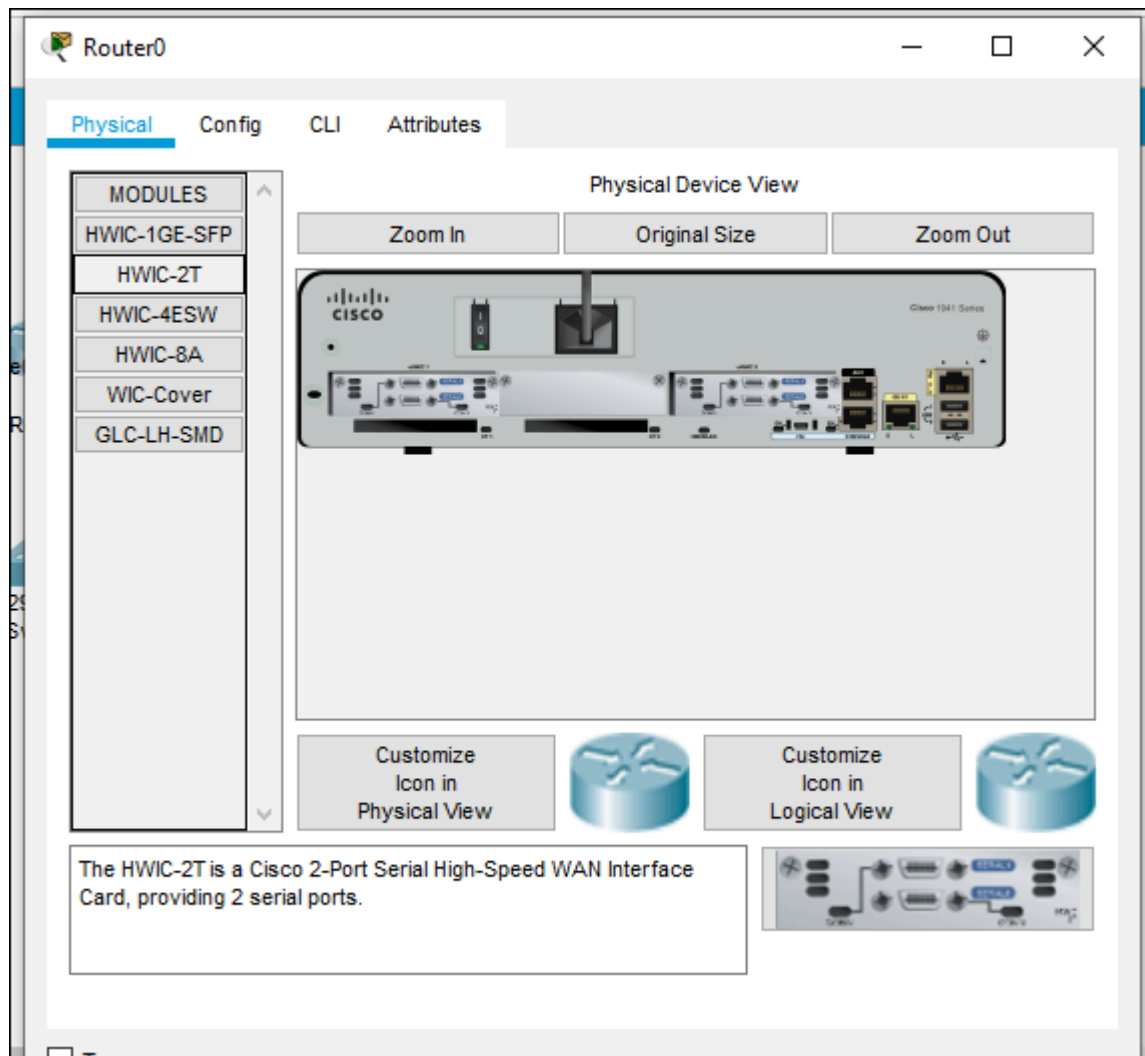
☐ Use 802.1X Security

Authentication MD5

Username

Password

☐ Top



Router0

Physical
Config
CLI
Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
Serial0/0/0
Serial0/0/1
Serial0/1/0
Serial0/1/1

GigabitEthernet0/0

Port Status
☒ On

Bandwidth
☐ 1000 Mbps
☒ 100 Mbps
☐ 10 Mbps
☒ Auto

Duplex
☐ Half Duplex
☒ Full Duplex
☒ Auto

MAC Address
0001.C7BE.EE01

IP Configuration
IP Address
192.168.1.3
Subnet Mask
255.255.255.0

Tx Ring Limit
10

Equivalent IOS Commands

Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#

☐ Top

Router0

Physical
Config
CLI
Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
Serial0/0/0
Serial0/0/1
Serial0/1/0
Serial0/1/1

Serial0/0/0

Serial0/0/0

Port Status
☒ On

Duplex
☐ Full Duplex

Clock Rate
2000000

IP Configuration
IP Address
192.168.4.2
Subnet Mask
255.255.255.0

Tx Ring Limit
10

Equivalent IOS Commands

```

Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#

```

☐ Top

Router1

PhysicalConfigCLIAttributes

GLOBAL

Settings

Algorithm Settings

ROUTING

Static

RIP

SWITCHING

VLAN Database

INTERFACE

GigabitEthernet0/0

GigabitEthernet0/1

Serial0/0/0

Serial0/0/1

Serial0/1/0

Serial0/1/1

GigabitEthernet0/0

Port Status☒ On

Bandwidth

☐ 1000 Mbps☒ 100 Mbps☐ 10 Mbps

☒ Auto

Duplex

☐ Half Duplex☒ Full Duplex

☒ Auto

MAC Address00E0.A3E5.8701

IP Configuration

IP Address192.168.2.3

Subnet Mask255.255.255.0

Tx Ring Limit10

Equivalent IOS Commands

Router#

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface GigabitEthernet0/0

Router(config-if)#

Router1

Physical
Config
CLI
Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
Serial0/0/0
Serial0/0/1
Serial0/1/0
Serial0/1/1

Serial0/0/0
Port Status
☒ On
Duplex
Full Duplex
Clock Rate
1200
IP Configuration
IP Address
192.168.4.3
Subnet Mask
255.255.255.0
Tx Ring Limit
10

Equivalent IOS Commands

```

Router(config)#interface GigabitEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#

```

☐ Top

Router1

Physical
Config
CLI
Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
Serial0/0/0
Serial0/0/1
Serial0/1/0
Serial0/1/1

Serial0/1/1

Serial0/1/1

Port Status
☒ On

Duplex
☐ Full Duplex

Clock Rate
2000000

IP Configuration
IP Address
192.168.5.2
Subnet Mask
255.255.255.0

Tx Ring Limit
10

Equivalent IOS Commands

```

Router(config)#interface Serial0/1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/1/1
Router(config-if)#
    
```

☐ Top

Router2

Physical
Config
CLI
Attributes

GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
GigabitEthernet0/0
GigabitEthernet0/1
Serial0/0/0
Serial0/0/1
Serial0/1/0
Serial0/1/1

GigabitEthernet0/0

GigabitEthernet0/0

Port Status
☒ On

Bandwidth
☐ 1000 Mbps
☒ 100 Mbps
☐ 10 Mbps
☒ Auto

Duplex
☐ Half Duplex
☒ Full Duplex
☒ Auto

MAC Address
0090.2BC5.4601

IP Configuration

IP Address
192.168.3.3

Subnet Mask
255.255.255.0

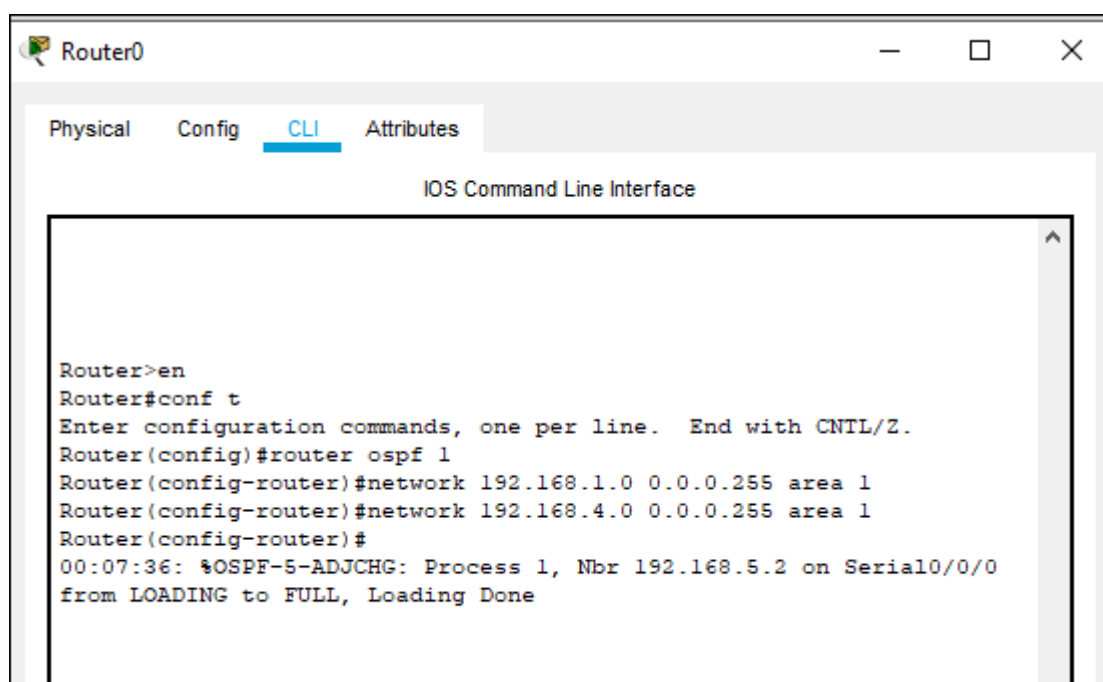
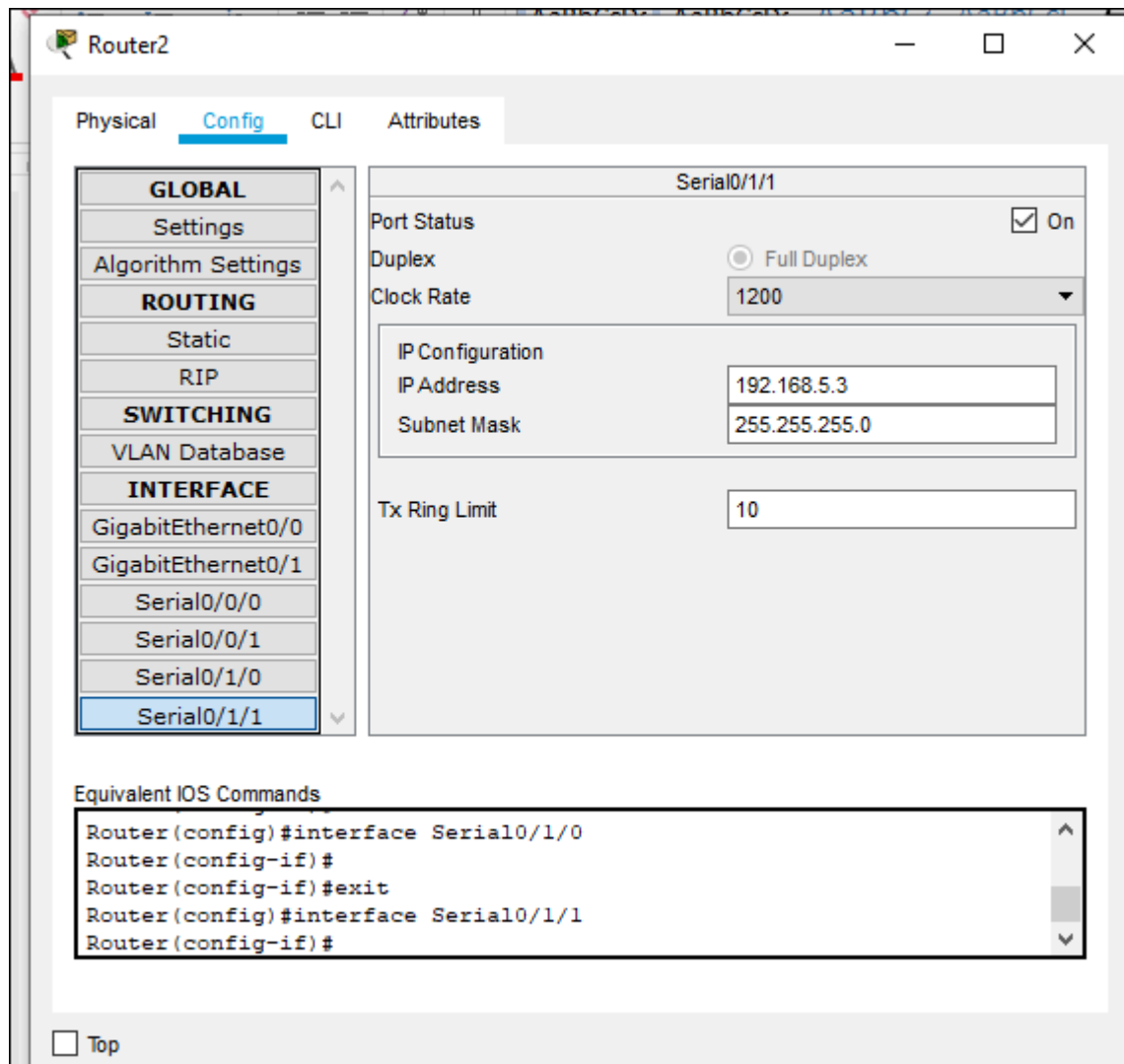
Tx Ring Limit
10

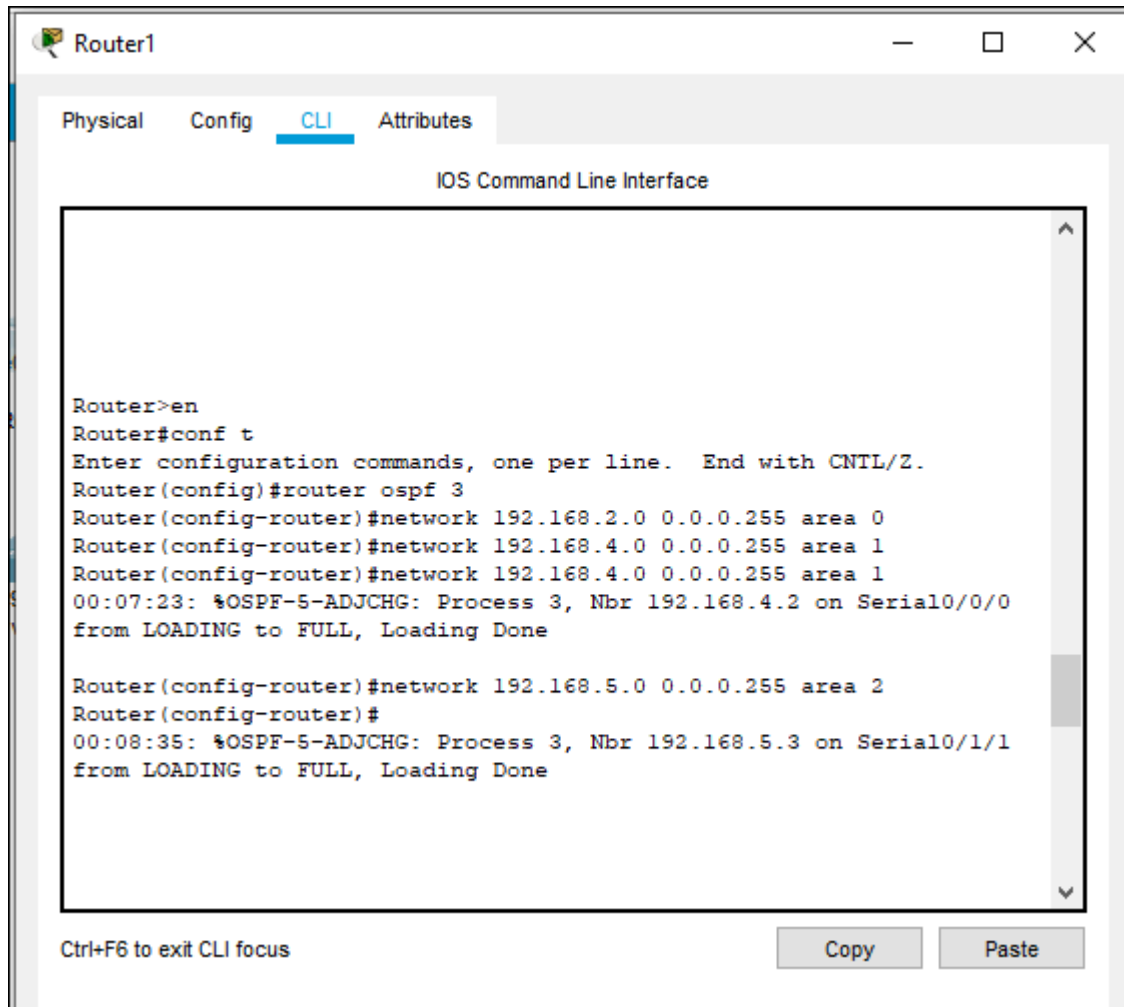
Equivalent IOS Commands

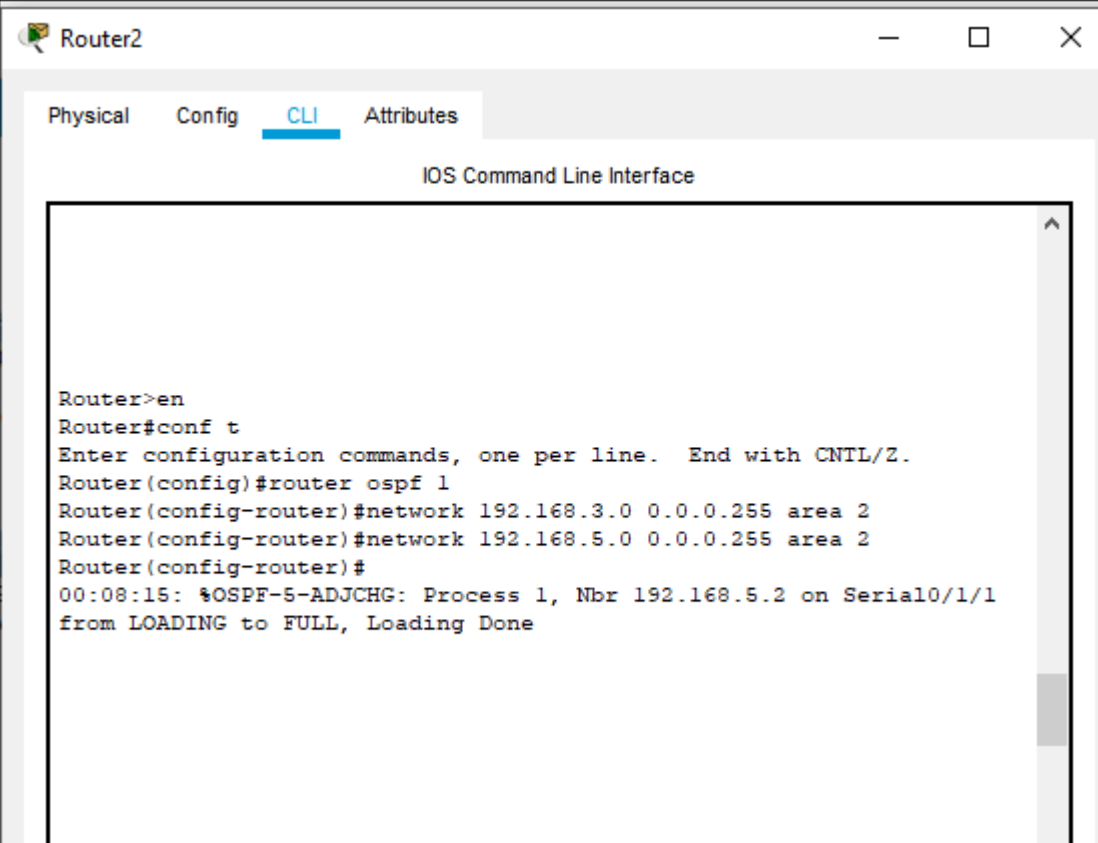
```

Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface GigabitEthernet0/0
Router(config-if)#

```

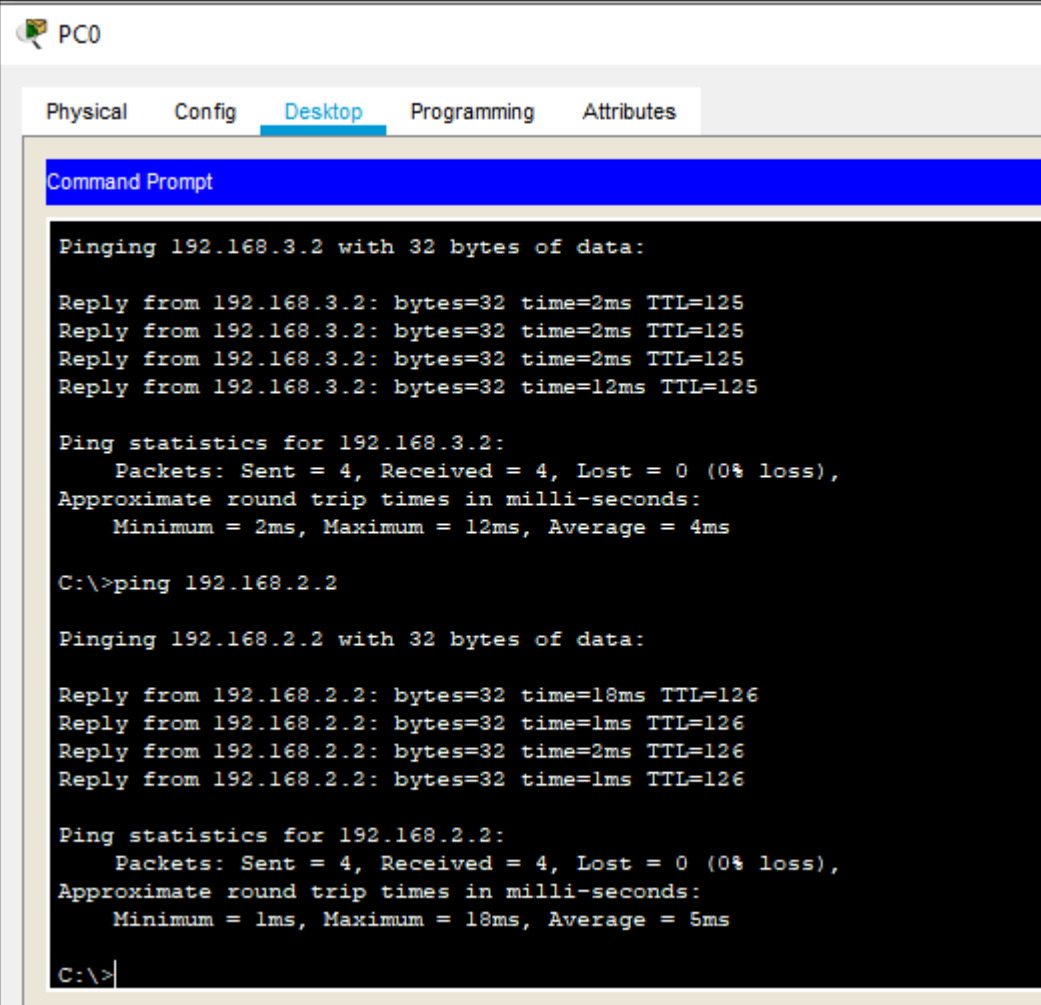






The screenshot shows a window titled "Router2" with a tabbed interface. The "CLI" tab is selected, displaying the "IOS Command Line Interface". The terminal text shows the following sequence of commands and output:

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router ospf 1
Router(config-router)#network 192.168.3.0 0.0.0.255 area 2
Router(config-router)#network 192.168.5.0 0.0.0.255 area 2
Router(config-router)#
00:08:15: %OSPF-5-ADJCHG: Process 1, Nbr 192.168.5.2 on Serial0/1/1
from LOADING to FULL, Loading Done
```



The screenshot shows a network simulation interface for PC0. The 'Desktop' tab is active, displaying a Command Prompt window. The window shows the results of two ping commands. The first command is 'ping 192.168.3.2', which shows four successful replies with 32 bytes of data, response times of 2ms, 2ms, 2ms, and 12ms, and a TTL of 125. The statistics for this ping show 4 packets sent, 4 received, 0 lost, and an average round trip time of 4ms. The second command is 'ping 192.168.2.2', which also shows four successful replies with 32 bytes of data, response times of 18ms, 1ms, 2ms, and 1ms, and a TTL of 126. The statistics for this ping show 4 packets sent, 4 received, 0 lost, and an average round trip time of 5ms. The Command Prompt window is titled 'Command Prompt' and the PC0 interface has tabs for 'Physical', 'Config', 'Desktop', 'Programming', and 'Attributes'.

```
PC0
Physical Config Desktop Programming Attributes
Command Prompt

Pinging 192.168.3.2 with 32 bytes of data:

Reply from 192.168.3.2: bytes=32 time=2ms TTL=125
Reply from 192.168.3.2: bytes=32 time=2ms TTL=125
Reply from 192.168.3.2: bytes=32 time=2ms TTL=125
Reply from 192.168.3.2: bytes=32 time=12ms TTL=125

Ping statistics for 192.168.3.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 12ms, Average = 4ms

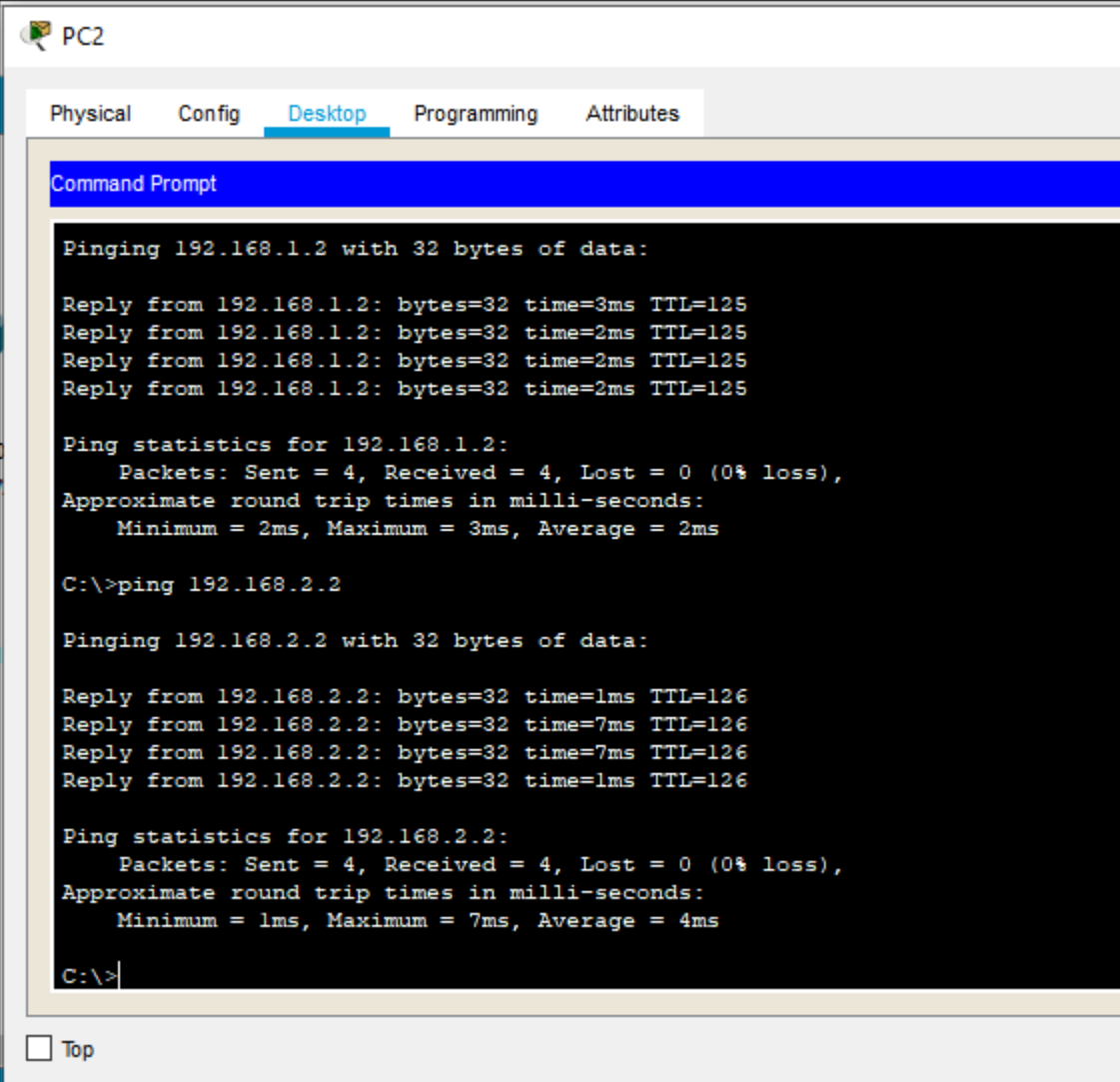
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time=18ms TTL=126
Reply from 192.168.2.2: bytes=32 time=1ms TTL=126
Reply from 192.168.2.2: bytes=32 time=2ms TTL=126
Reply from 192.168.2.2: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 18ms, Average = 5ms

C:\>
```



The screenshot shows a PC2 interface with a tabbed menu at the top: Physical, Config, Desktop (selected), Programming, and Attributes. Below the menu is a Command Prompt window with a blue title bar. The window displays the output of two ping commands. The first command is 'ping 192.168.1.2', which shows four successful replies with 32 bytes of data, response times of 3ms, 2ms, 2ms, and 2ms, and a TTL of 125. The statistics for 192.168.1.2 show 4 packets sent and received, 0% loss, and round trip times of 2ms to 3ms. The second command is 'ping 192.168.2.2', which shows four successful replies with 32 bytes of data, response times of 1ms, 7ms, 7ms, and 1ms, and a TTL of 126. The statistics for 192.168.2.2 show 4 packets sent and received, 0% loss, and round trip times of 1ms to 7ms. The Command Prompt window has a 'Top' button at the bottom left.

```
PC2
Physical  Config  Desktop  Programming  Attributes

Command Prompt

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=3ms TTL=125
Reply from 192.168.1.2: bytes=32 time=2ms TTL=125
Reply from 192.168.1.2: bytes=32 time=2ms TTL=125
Reply from 192.168.1.2: bytes=32 time=2ms TTL=125

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 2ms, Maximum = 3ms, Average = 2ms

C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time=1ms TTL=126
Reply from 192.168.2.2: bytes=32 time=7ms TTL=126
Reply from 192.168.2.2: bytes=32 time=7ms TTL=126
Reply from 192.168.2.2: bytes=32 time=1ms TTL=126

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 7ms, Average = 4ms

C:\>
```

☐ Top