Lab 4: EIGRP

Router 0

```
Router#
Router#
Router#
Router#
Router#
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#no auto-summary
Router(config-router)#network 192.168.1.0
Router(config-router)#network 192.168.2.0
Router(config-router)#
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.2.2 (FastEthernet0/1) is up:
new adjacency
```

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Router 1:

```
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#no auto-summary
Router(config-router)#network 192.168.2.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.2.1 (FastEthernet0/0) is up:
new adjacency

Router(config-router)#network 192.168.3.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.3.2 (FastEthernet0/1) is up:
new adjacency
```

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Router 2:

```
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router eigrp 100
Router(config-router)#no auto-summary
Router(config-router)#network 192.168.3.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 192.168.3.1 (FastEthernet0/0) is up:
new adjacency

Router(config-router)#network 192.168.4.0
Router(config-router)#
```

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Show run for router 0:

```
!
!
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 eigrp 100
 network 192.168.1.0
 network 192.168.2.0
 no auto-summary
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
!
!
!
line con 0
!
line aux 0
```

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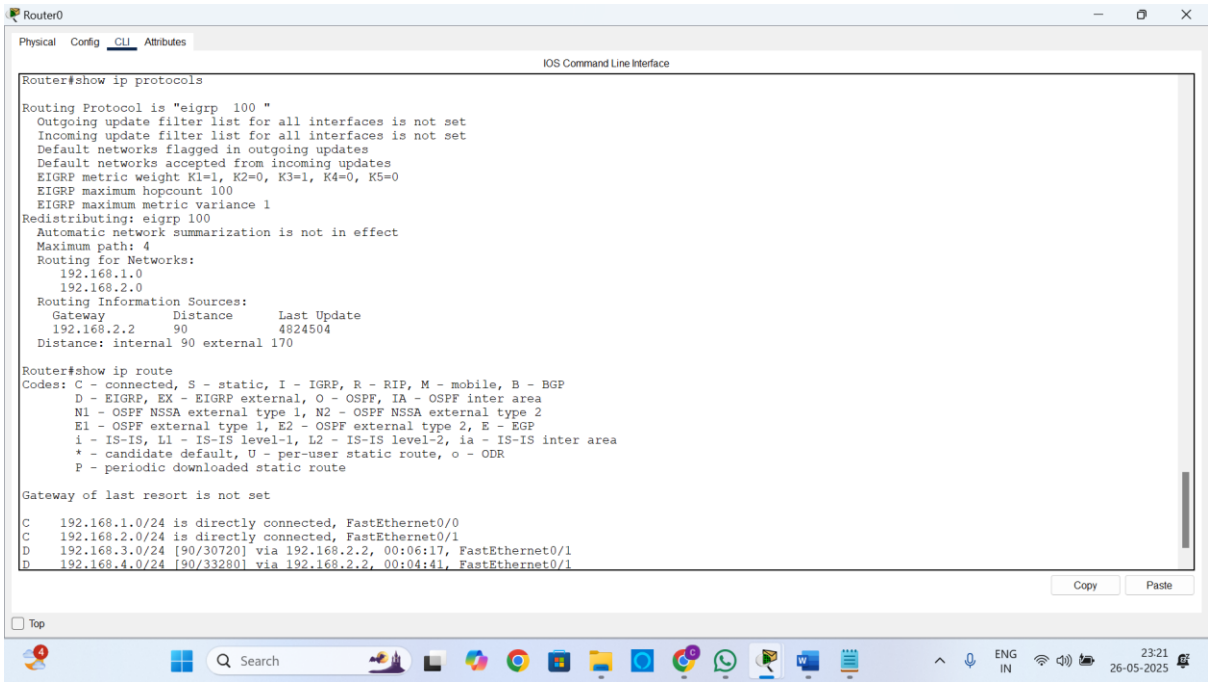
Show ip protocols and show ip route:

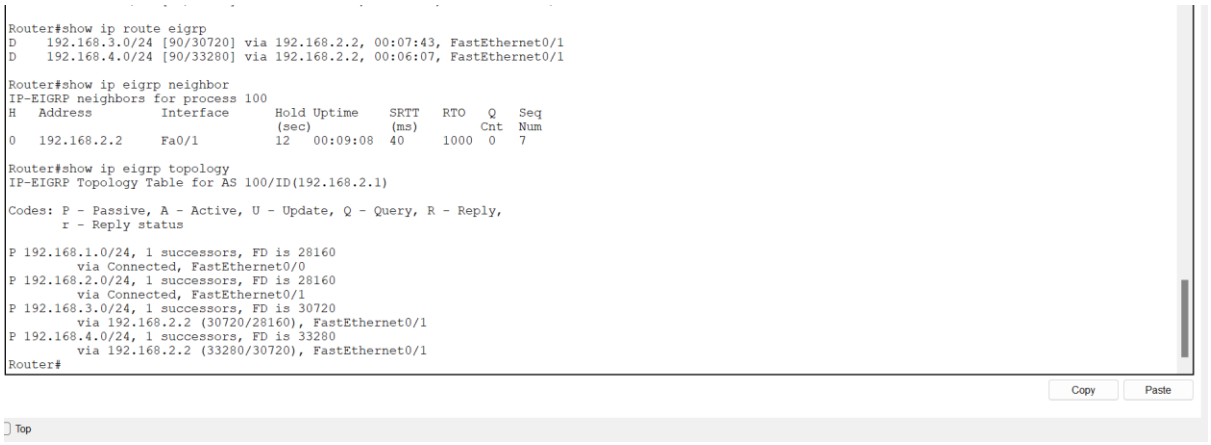


Outputs for the commands:

#show ip route eigrp

#show ip eigrp neighbour

#show ip eigrp topology



Ping output:

```
C:\>ping 192.168.4.4

Pinging 192.168.4.4 with 32 bytes of data:

Request timed out.
Reply from 192.168.4.4: bytes=32 time=1ms TTL=125
Reply from 192.168.4.4: bytes=32 time<1ms TTL=125
Reply from 192.168.4.4: bytes=32 time<1ms TTL=125

Ping statistics for 192.168.4.4:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 192.168.4.4

Pinging 192.168.4.4 with 32 bytes of data:

Reply from 192.168.4.4: bytes=32 time=1ms TTL=125
Reply from 192.168.4.4: bytes=32 time<1ms TTL=125
Reply from 192.168.4.4: bytes=32 time<1ms TTL=125
Reply from 192.168.4.4: bytes=32 time=1ms TTL=125

Ping statistics for 192.168.4.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```