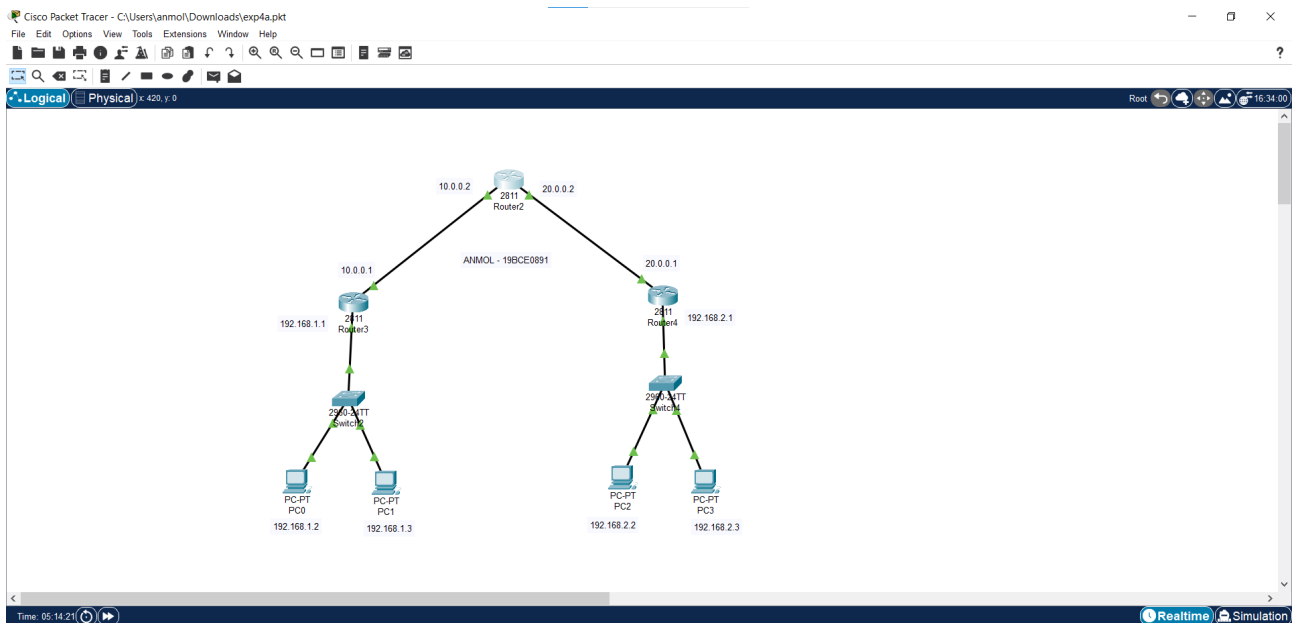


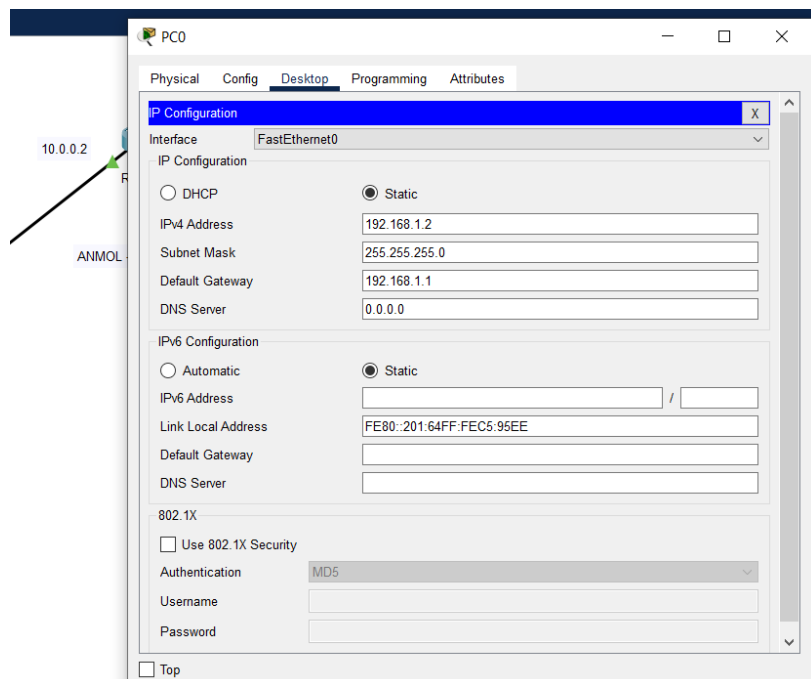
NAME – **ANMOL**
REG. NO. - **19BCE0891**

DIGITAL ASSIGNMENT – 4

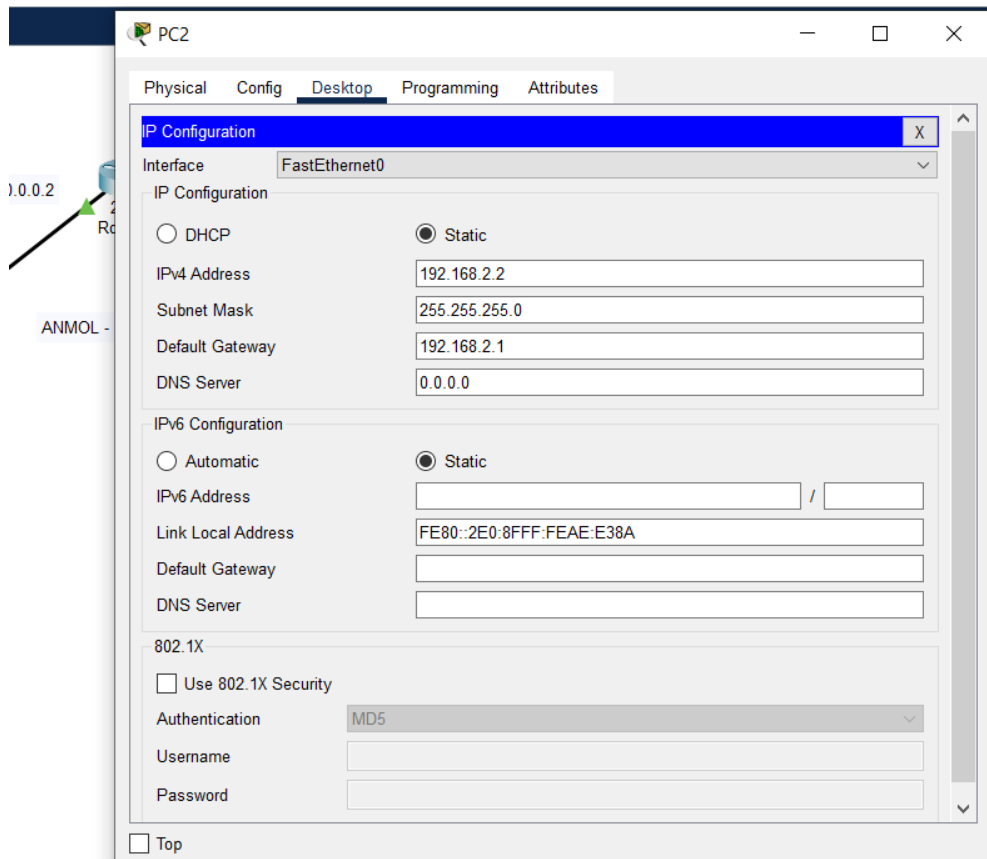
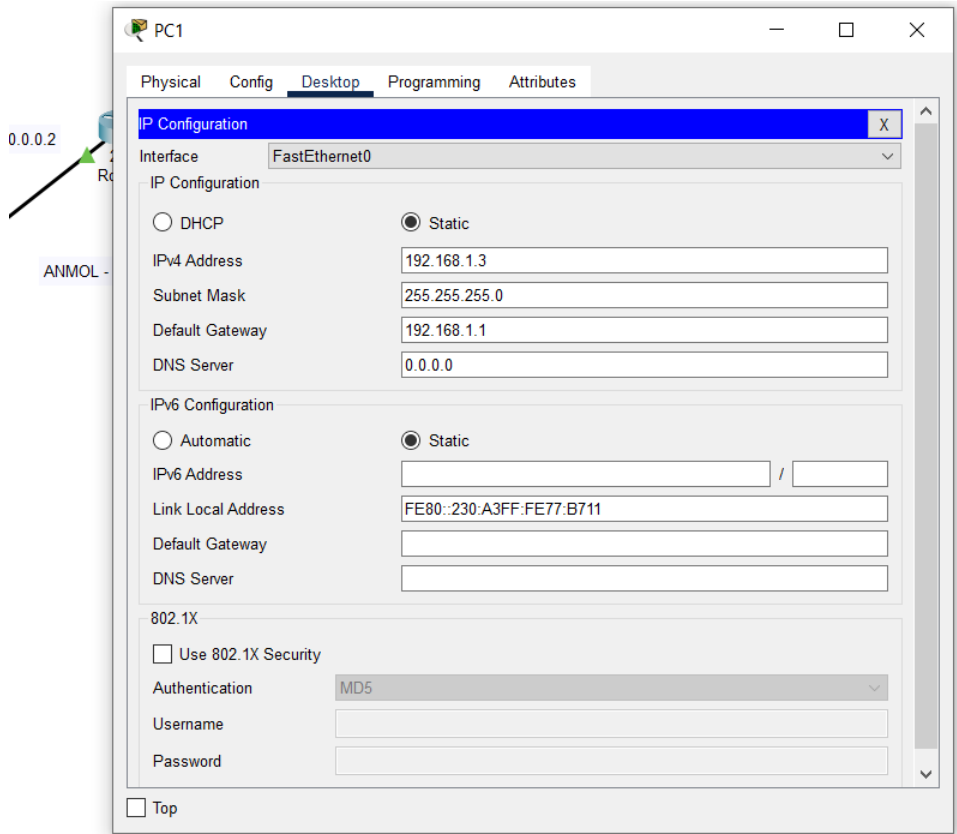
NETWORK TOPOLOGY

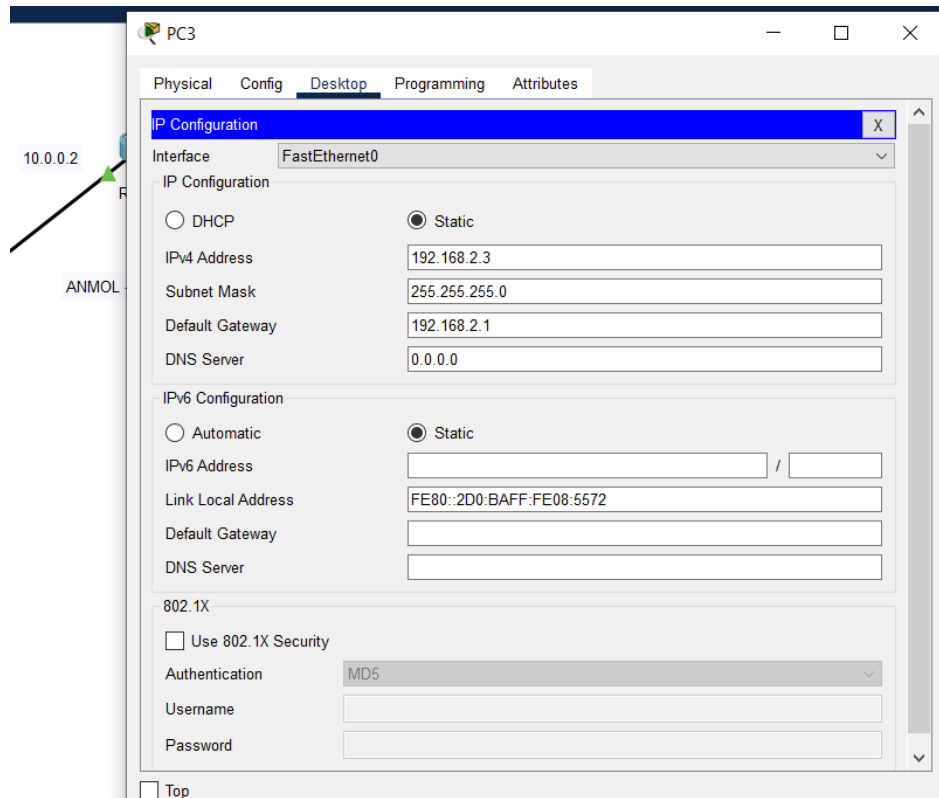


PC Configurations

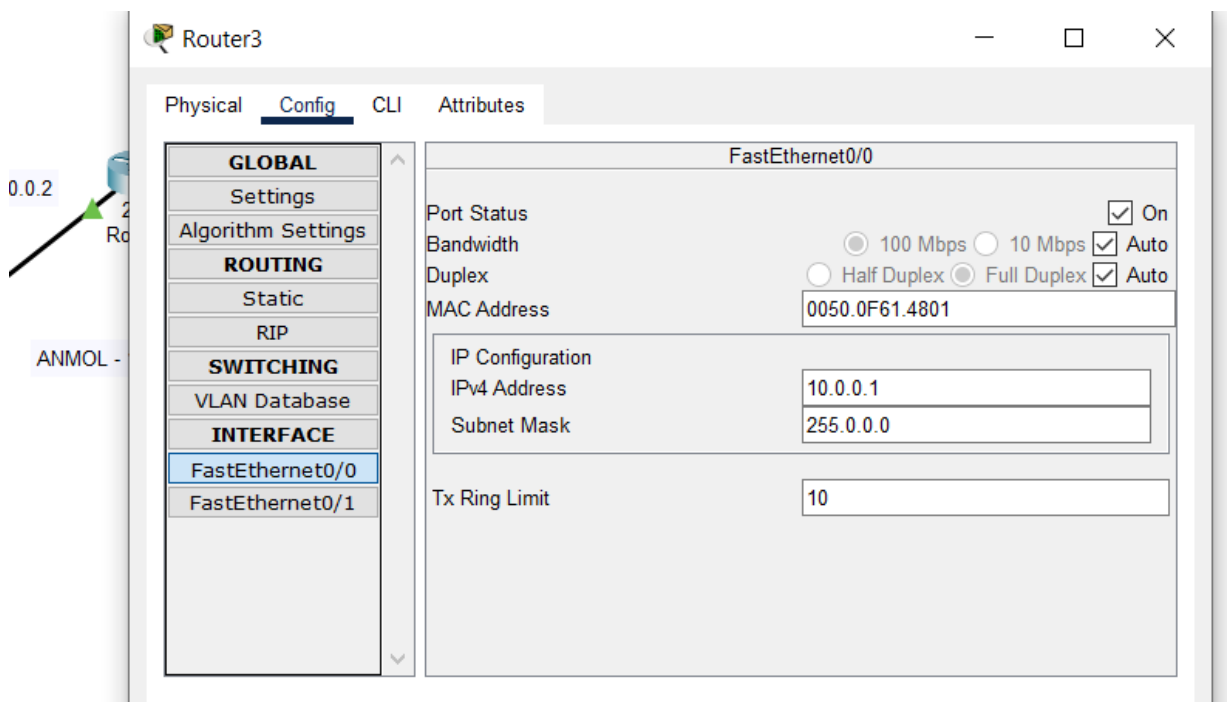


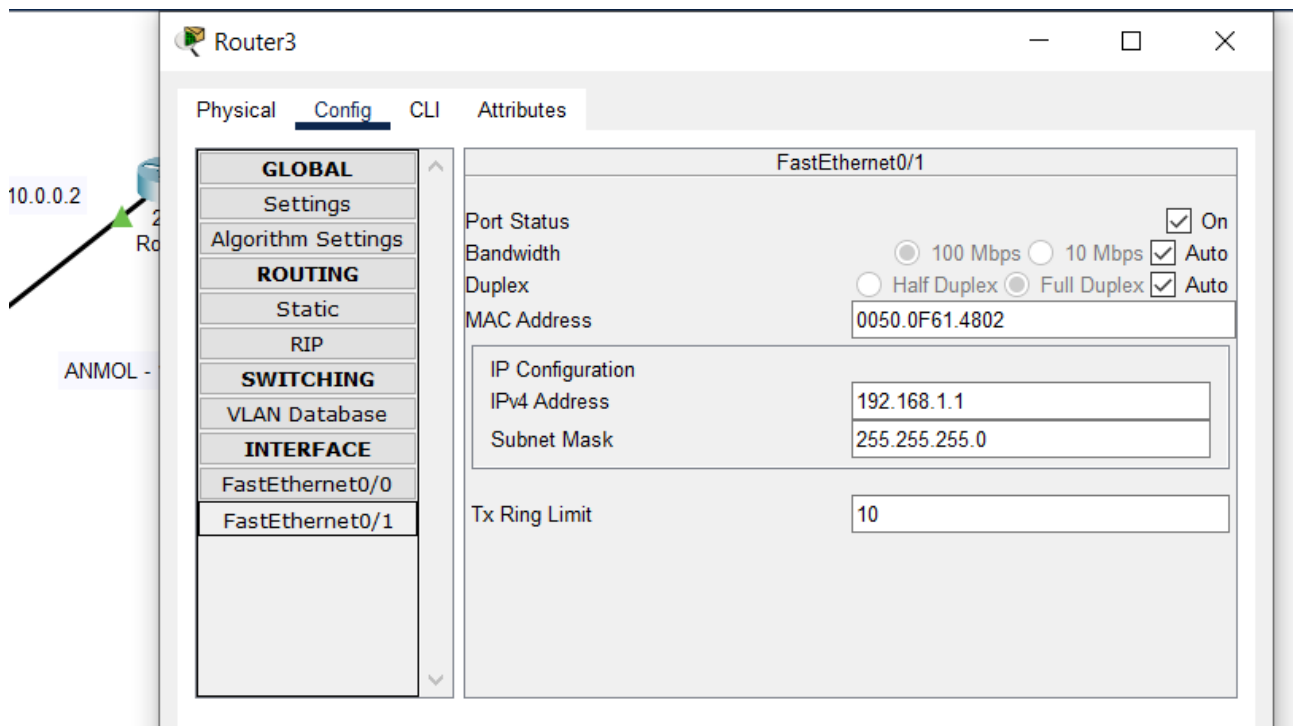
CSE3502 - INFORMATION SECURITY MANAGEMENT (L39 + 40)



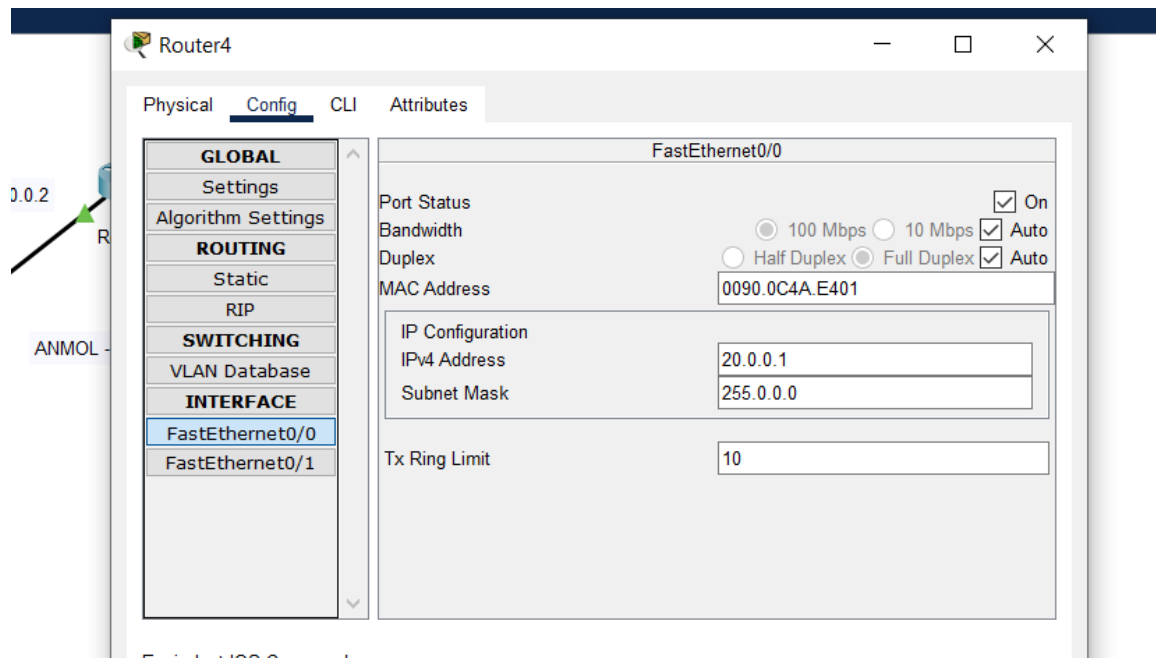


Router 3 Configuration

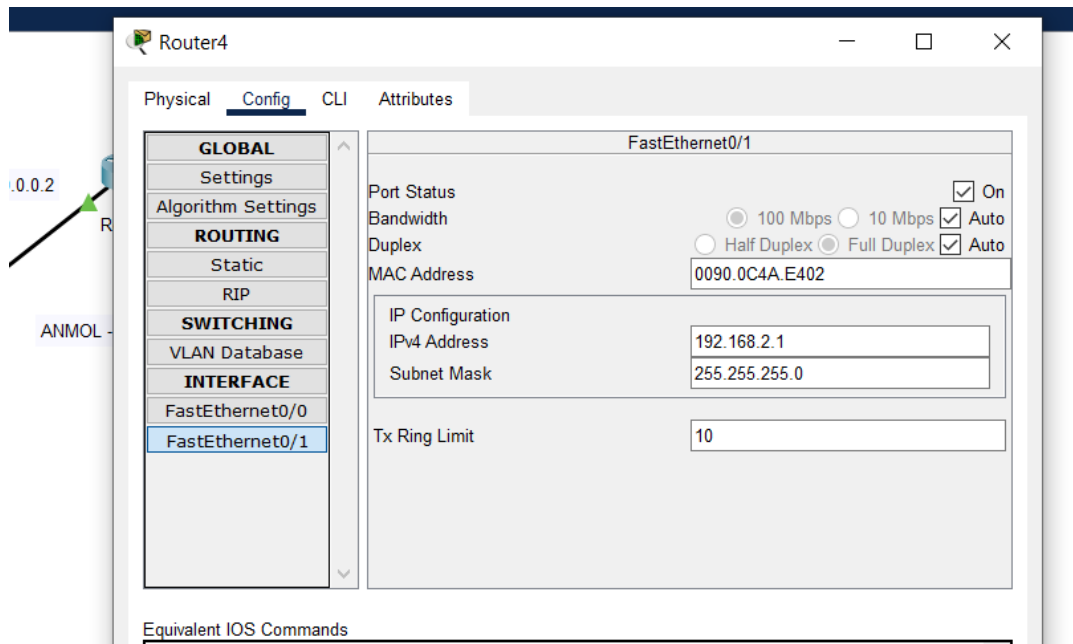




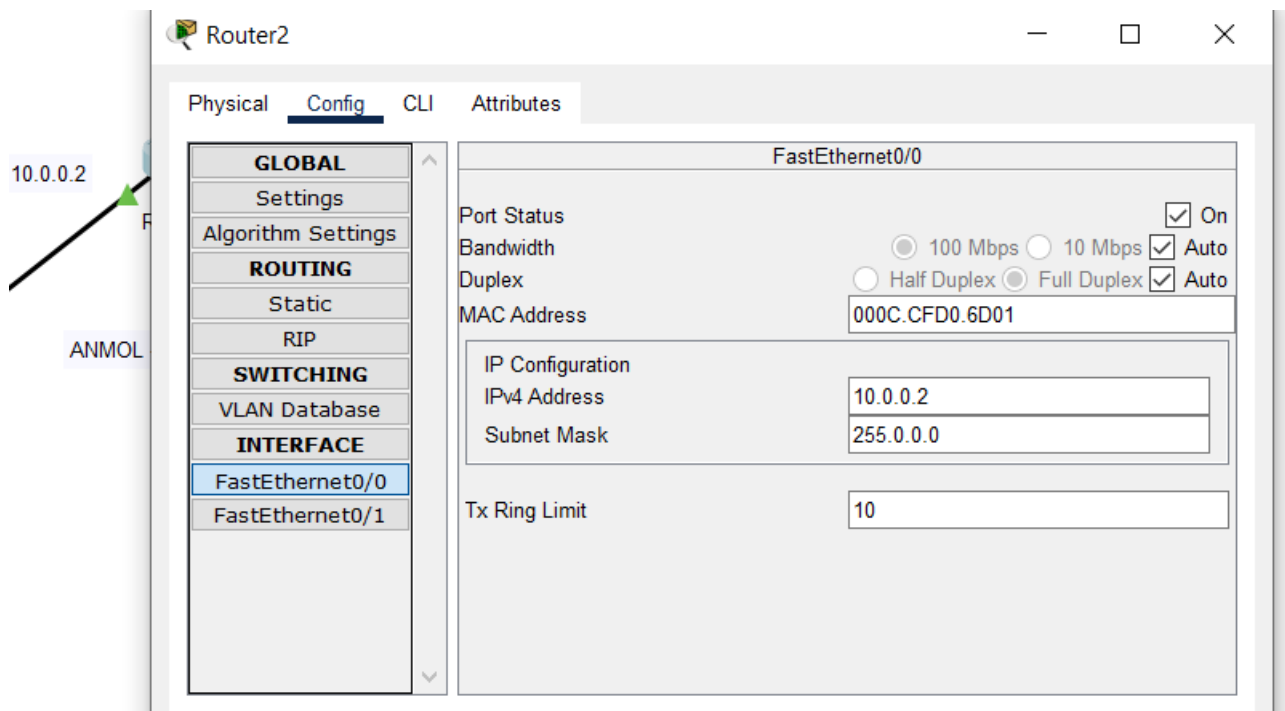
Router 4 Configuration

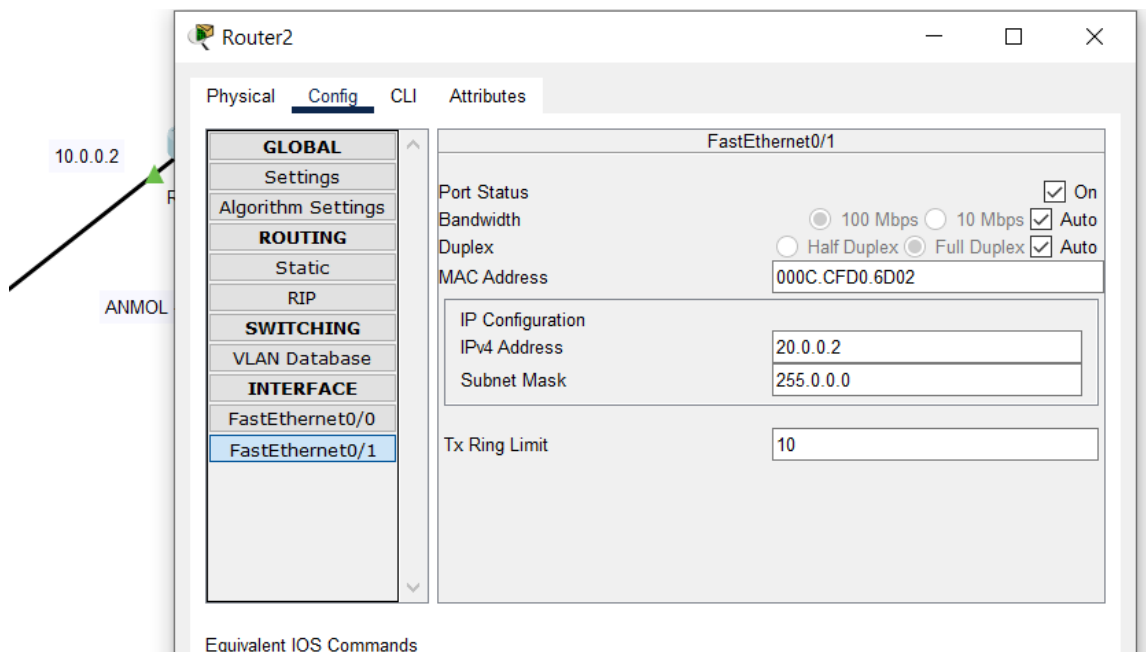


Equivalent IOS Commands



Router 2 Configuration





COMMANDS USED FOR THIS EXPERIMENT:

Router 3

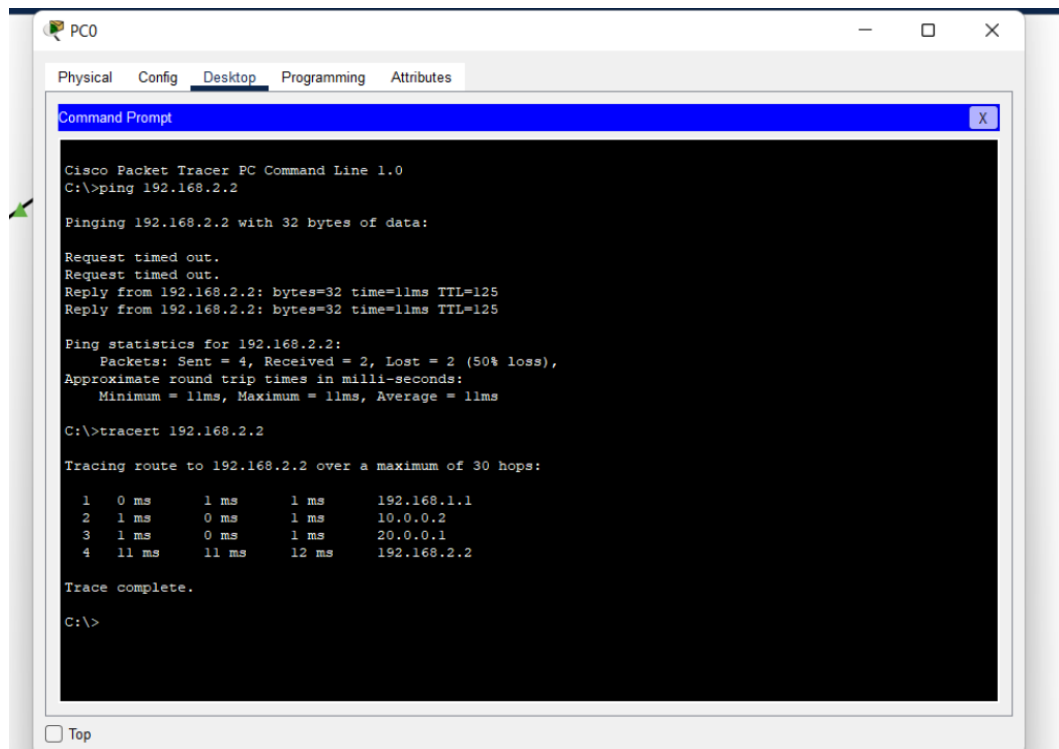
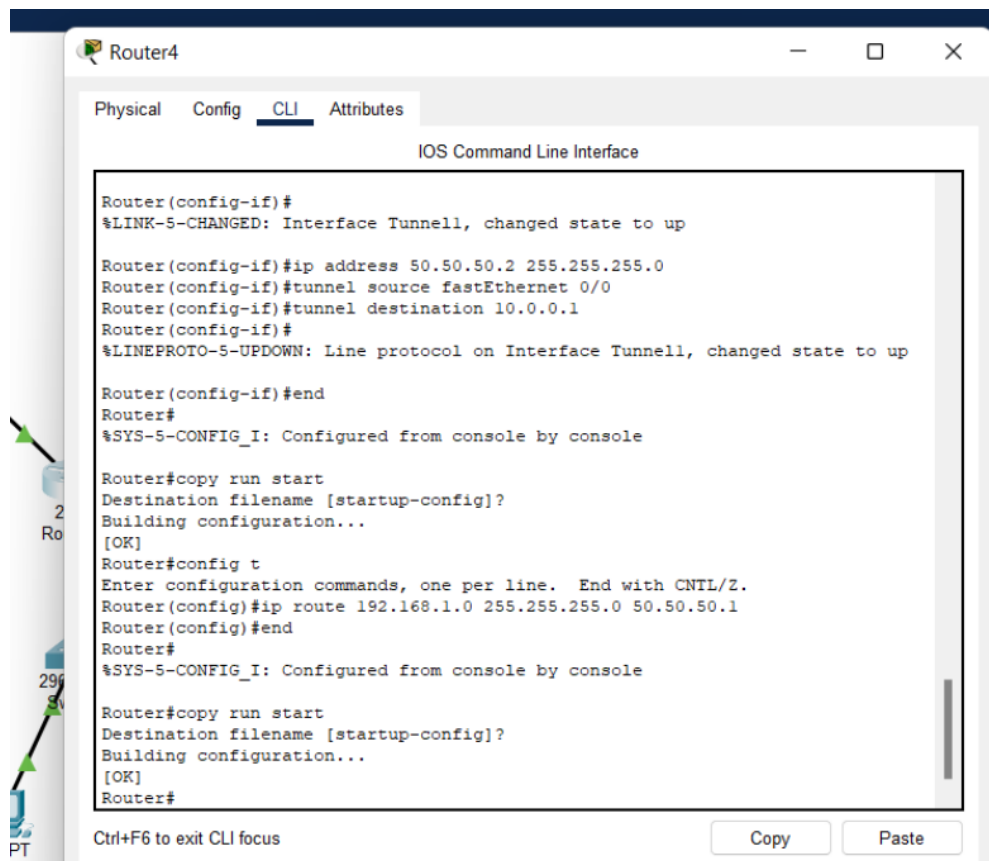
```
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 192.168.1.0
Router(config-router)#network 10.0.0.0
```

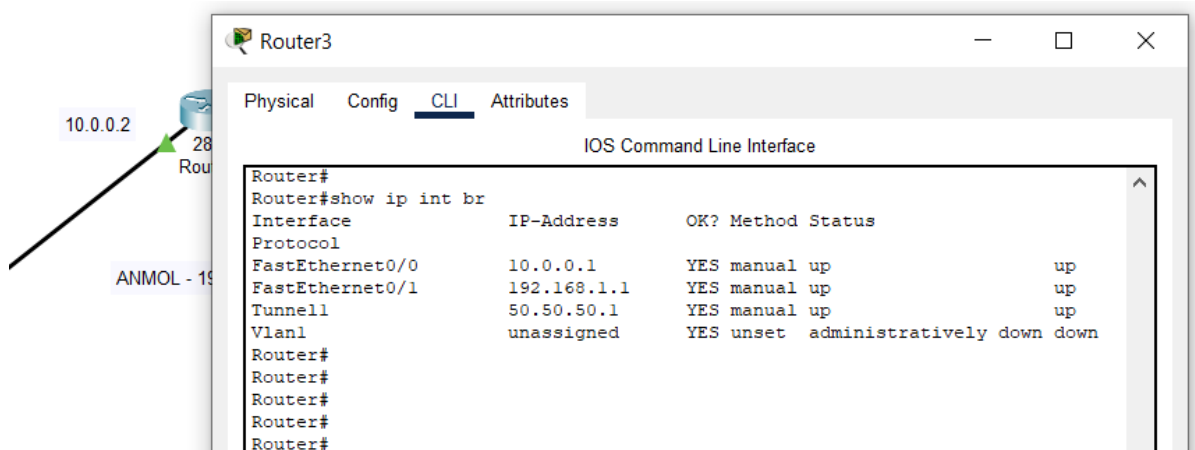
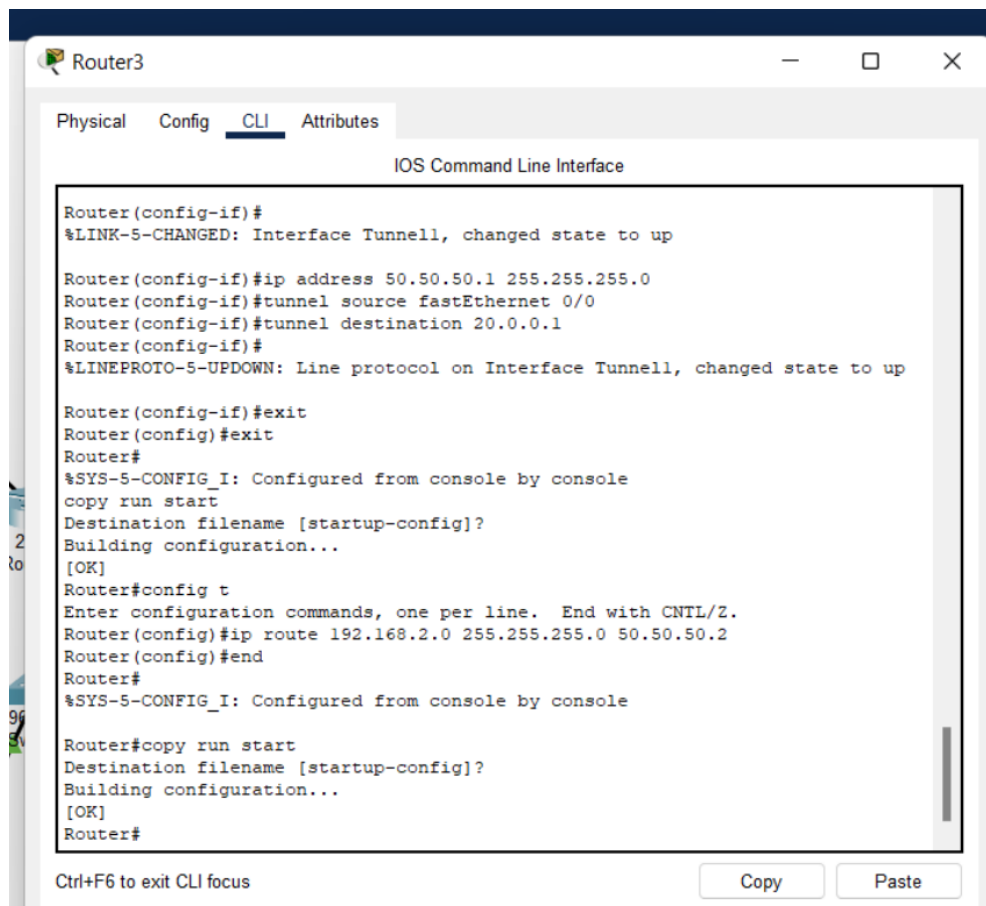
Router 2

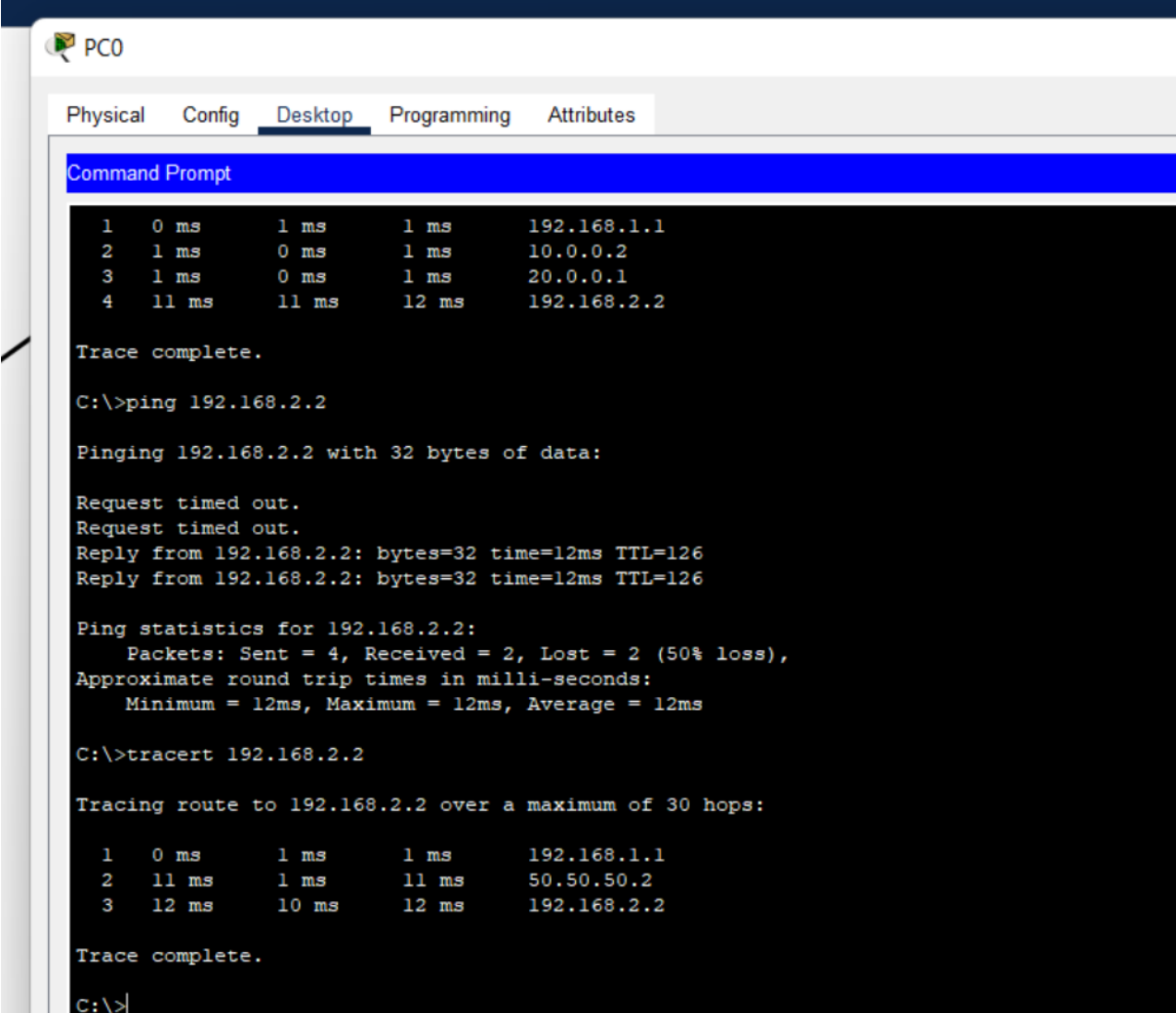
```
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 10.0.0.0
Router(config-router)#network 20.0.0.0
```

Router 4

```
Router(config)#
Router(config)#router rip
Router(config-router)#network 20.0.0.0
Router(config-router)#network 192.168.2.0
```

OUTPUT (Before Tunnel)**Tunnel Configuration:**



OUTPUT (After Tunnel):

The screenshot shows a virtual machine window for PC0. The 'Desktop' tab is active, displaying a black Command Prompt window. The window contains the output of a traceroute and a ping command. The traceroute shows a path from 192.168.1.1 to 10.0.0.2 to 20.0.0.1 to 192.168.2.2. The ping command shows a 50% loss of packets to 192.168.2.2.

```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
1 0 ms 1 ms 1 ms 192.168.1.1
2 1 ms 0 ms 1 ms 10.0.0.2
3 1 ms 0 ms 1 ms 20.0.0.1
4 11 ms 11 ms 12 ms 192.168.2.2

Trace complete.

C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Request timed out.
Request timed out.
Reply from 192.168.2.2: bytes=32 time=12ms TTL=126
Reply from 192.168.2.2: bytes=32 time=12ms TTL=126

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 12ms, Maximum = 12ms, Average = 12ms

C:\>tracert 192.168.2.2

Tracing route to 192.168.2.2 over a maximum of 30 hops:

 1 0 ms 1 ms 1 ms 192.168.1.1
 2 11 ms 1 ms 11 ms 50.50.50.2
 3 12 ms 10 ms 12 ms 192.168.2.2

Trace complete.

C:\>
```