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E/16/156

CO513 - Lab 01

Introduction to Cisco Packet Tracer

Question 02

a) Assign IP addresses and subnet masks. Label them near each PC for readability

Figure 1.1

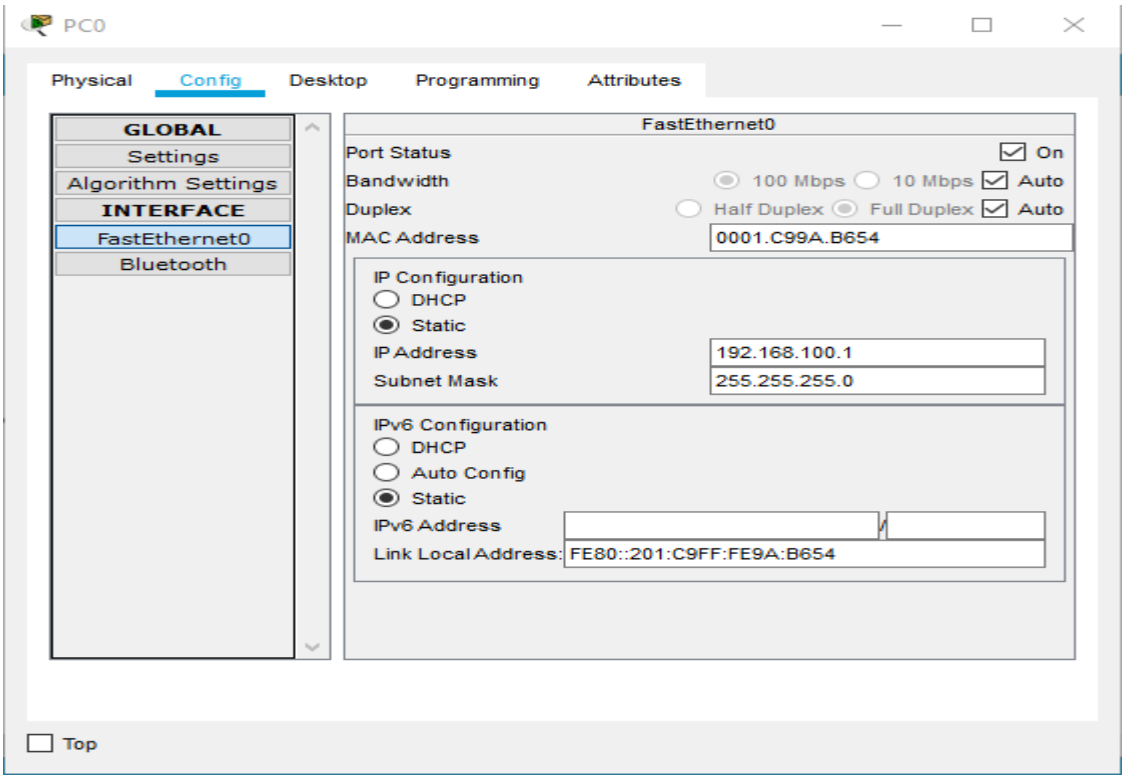

Figure 1.2

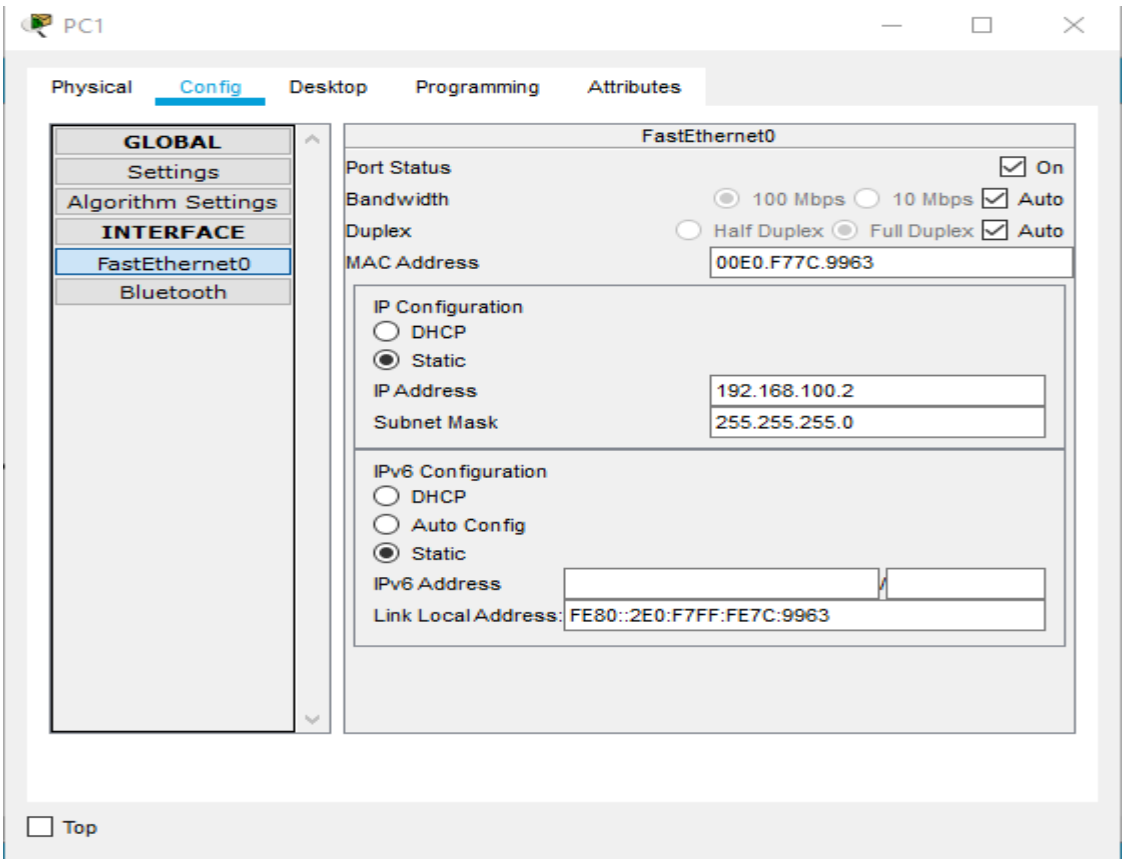

Figure 1.3

b) Open a command prompt at one of the PCs and try to ping the other. What do you observe? Explain your observations.

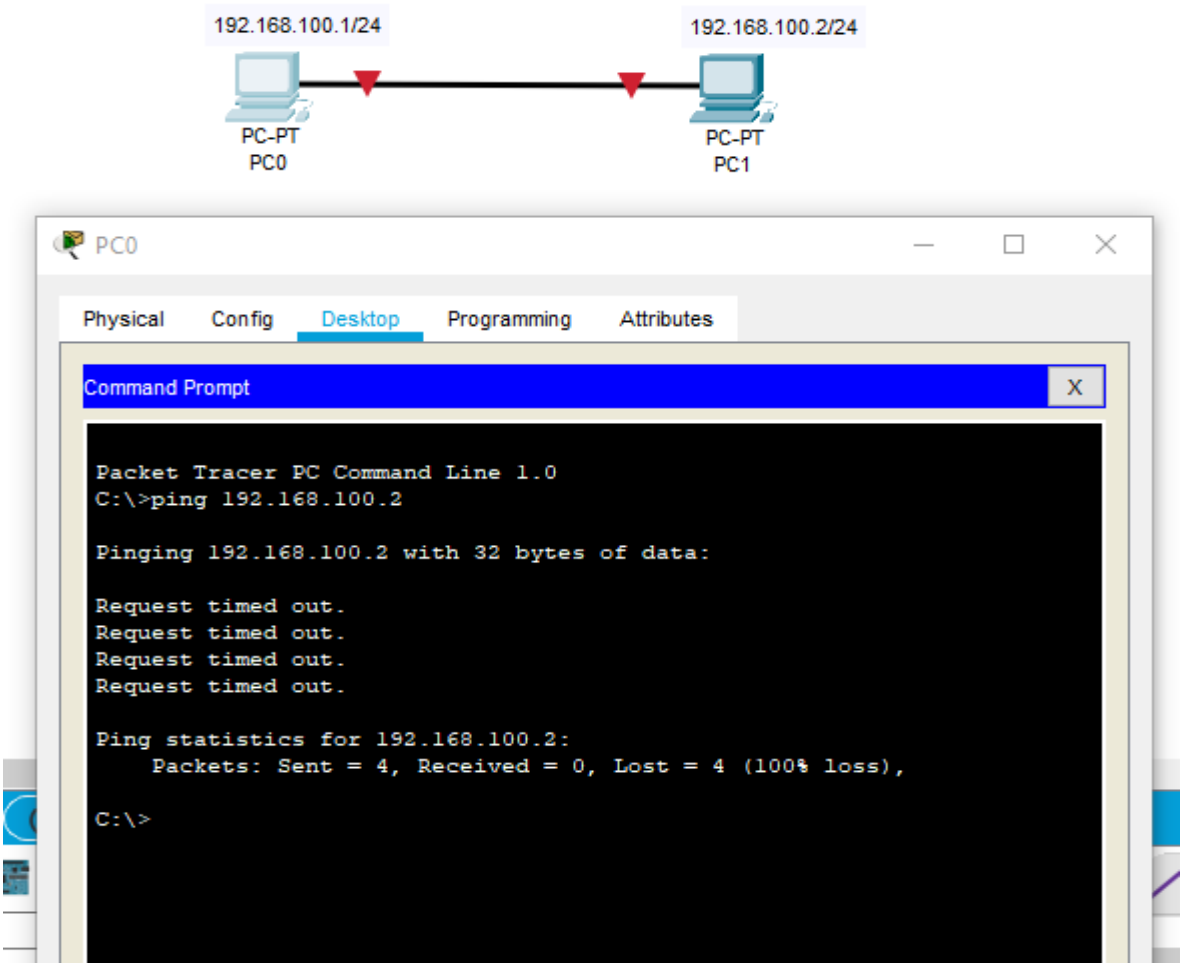

Figure 2.1

Above figure 2.1 shows the result which obtained by pinging PC1 to PC0. This shows that PC1 is not connected to PC0.

The same thing is repeated to PC1 as well. Then Below figure 2.2 is obtained as the result.

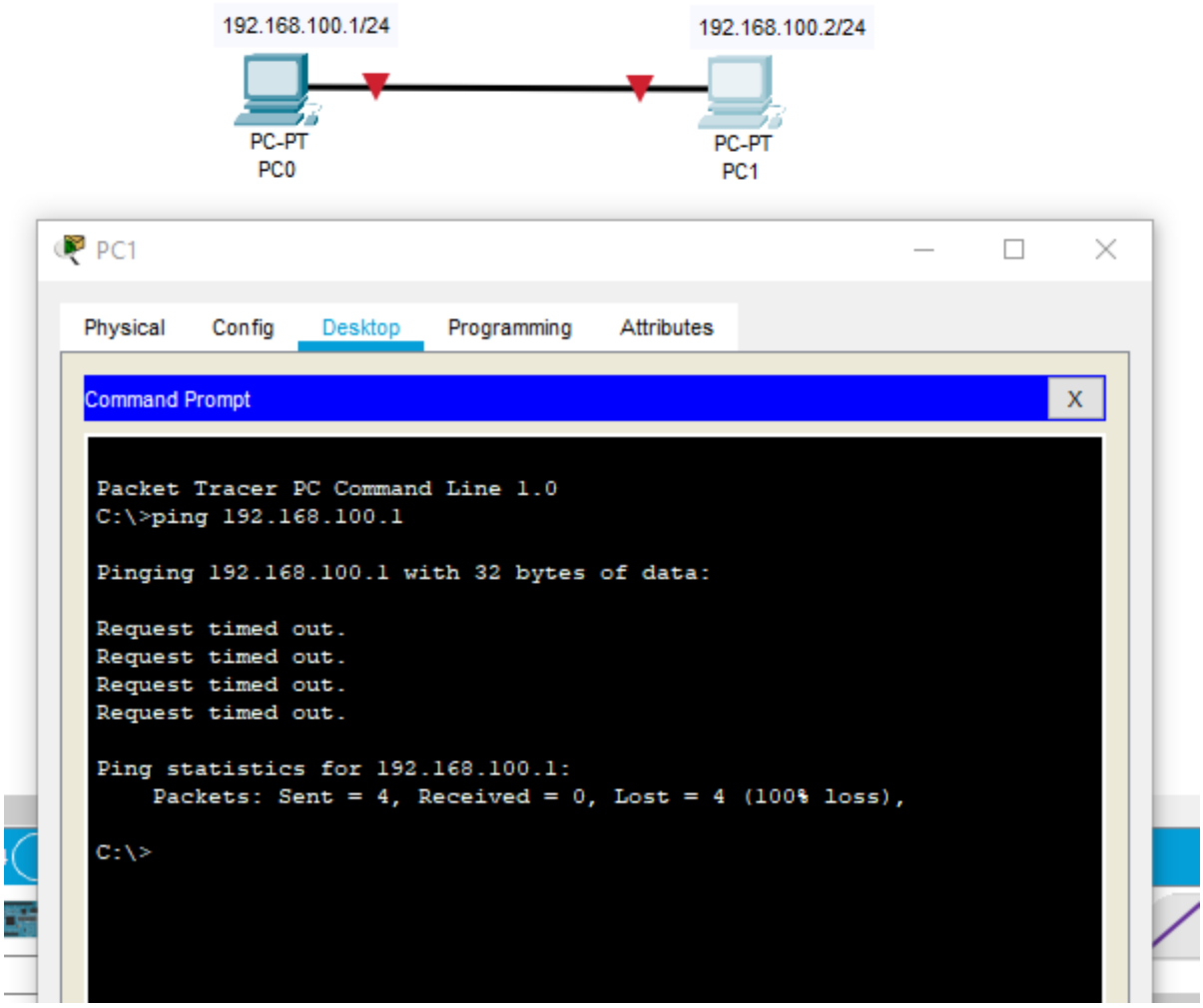

Figure 2.2

Since I have used straight-through cable to connect two computers together it is not possible to do the both works;

- Send packets
- Receive packets

So as the above figures shows, only packet sending can be done. Since we can’t receive packets, we can’t see the connection.

c) What should you do to connect the two PCs directly?

We can use cross ethernet cable to connect two PCs. Then we can connect two PCs successfully and can obtained below results.

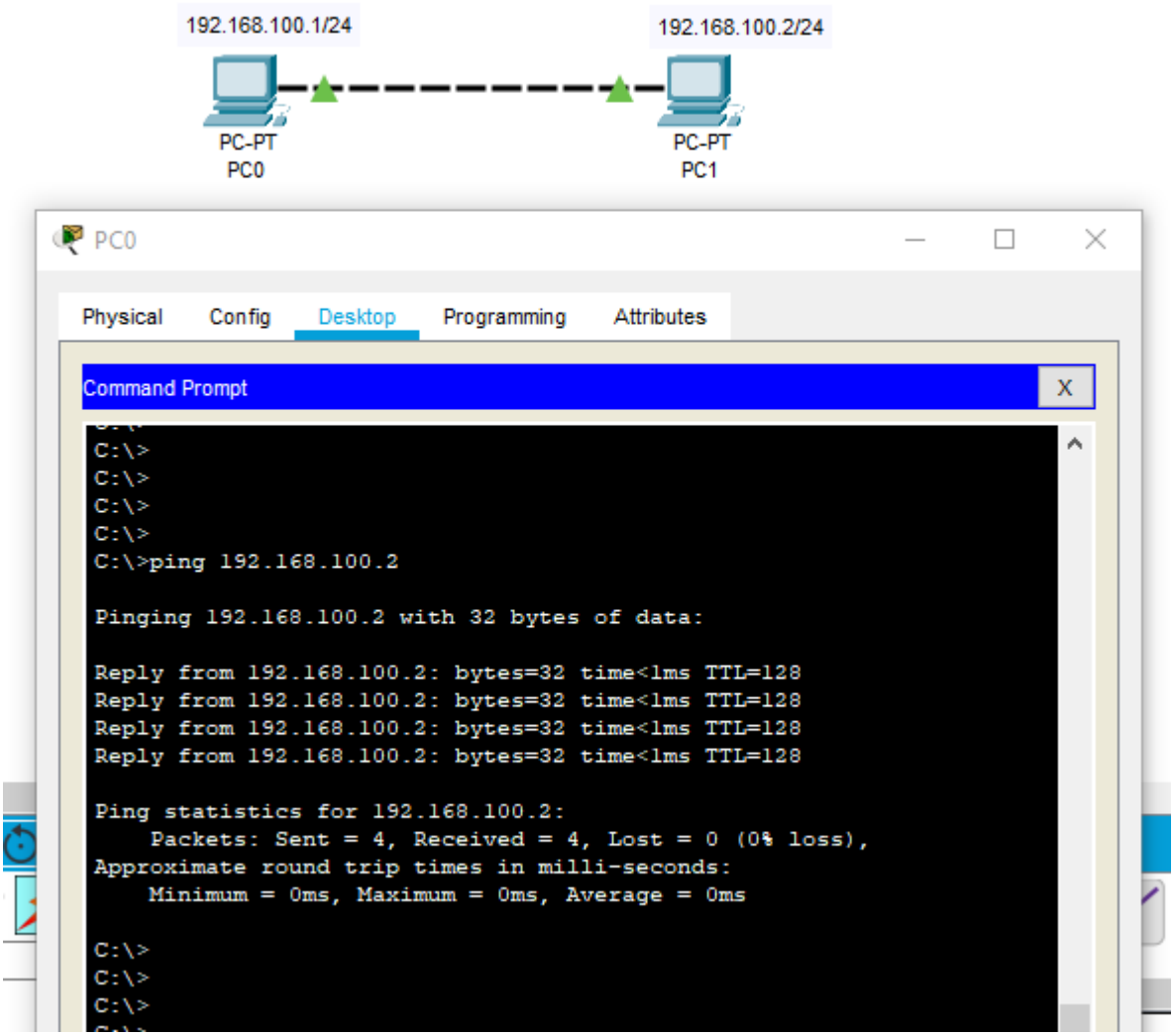

Figure 3.1

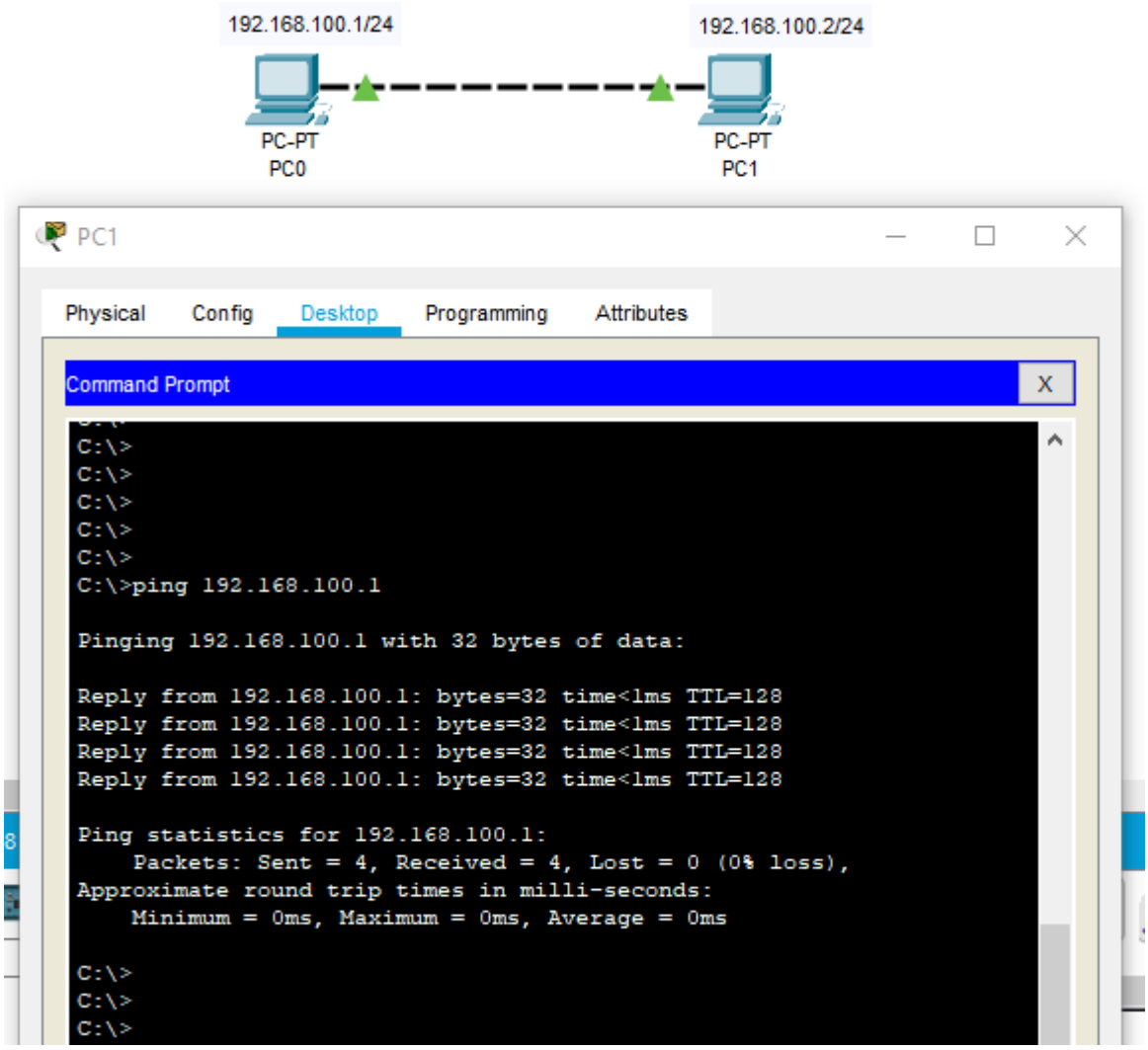
192.168.100.1/24
192.168.100.2/24
PC-PT
PC0
PC-PT
PC1
PC1
Physical
Config
Desktop
Programming
Attributes
Command Prompt
X
C:\>
C:\>
C:\>
C:\>
C:\>
C:\>ping 192.168.100.1
Pinging 192.168.100.1 with 32 bytes of data:
Reply from 192.168.100.1: bytes=32 time<1ms TTL=128
Reply from 192.168.100.1: bytes=32 time<1ms TTL=128
Reply from 192.168.100.1: bytes=32 time<1ms TTL=128
Reply from 192.168.100.1: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.100.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\>
C:\>
C:\>

Figure 3.2

Question 03

a) Assign IP addresses and subnet masks appropriately. Label each properly.

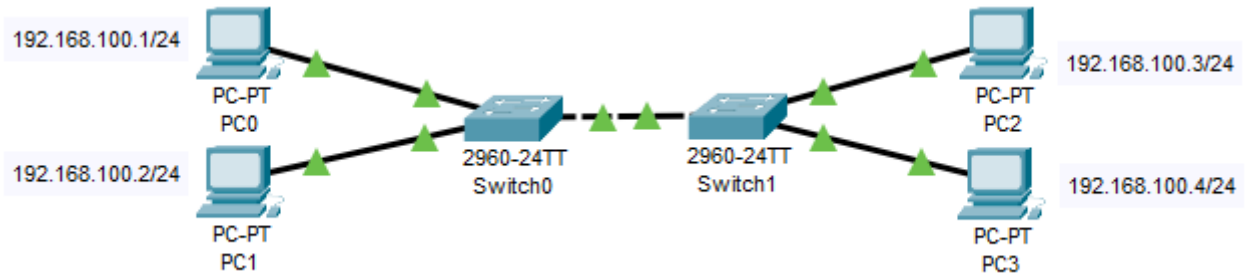

Figure 4.1

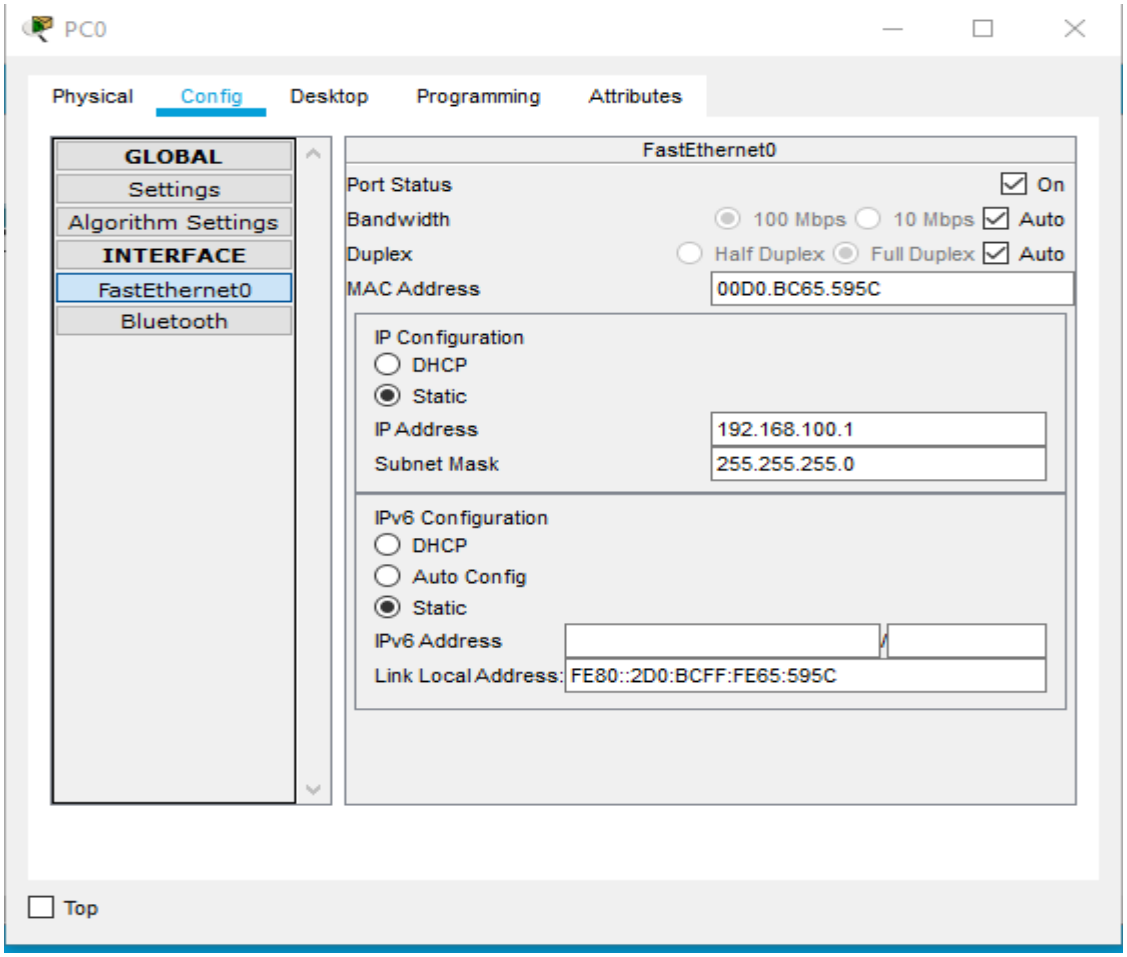

Figure 4.2

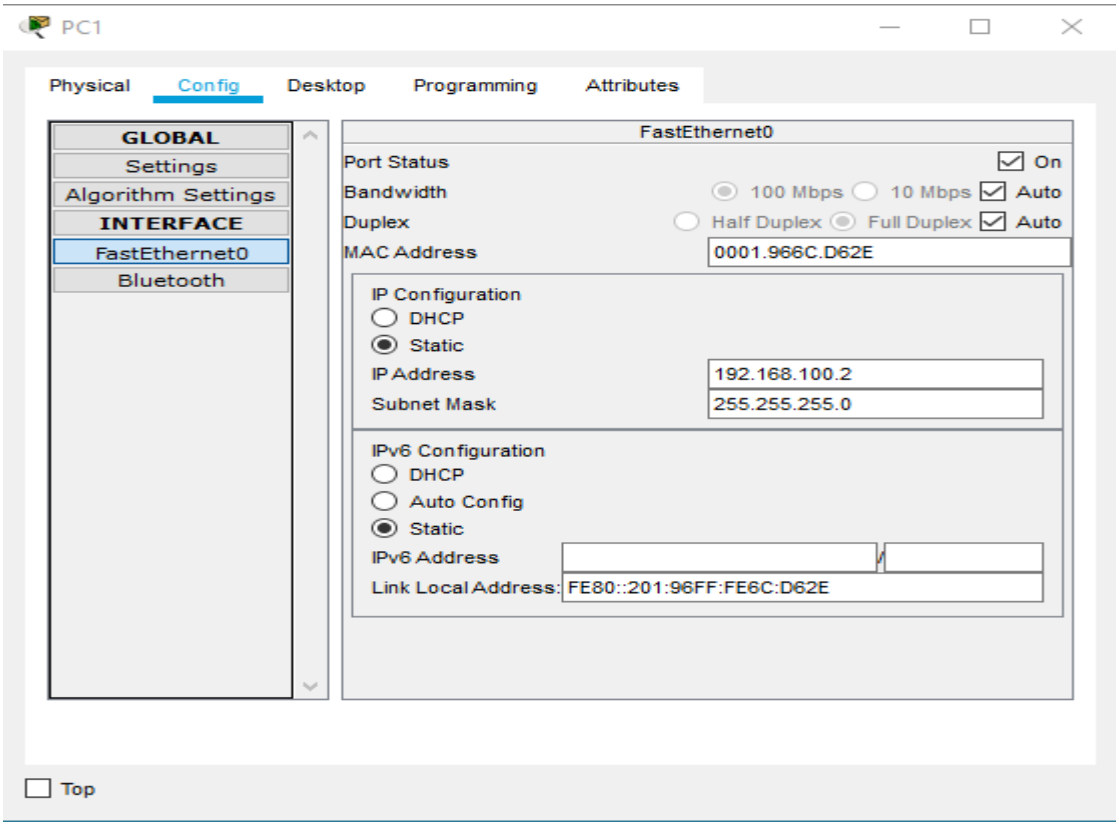

Figure 4.3

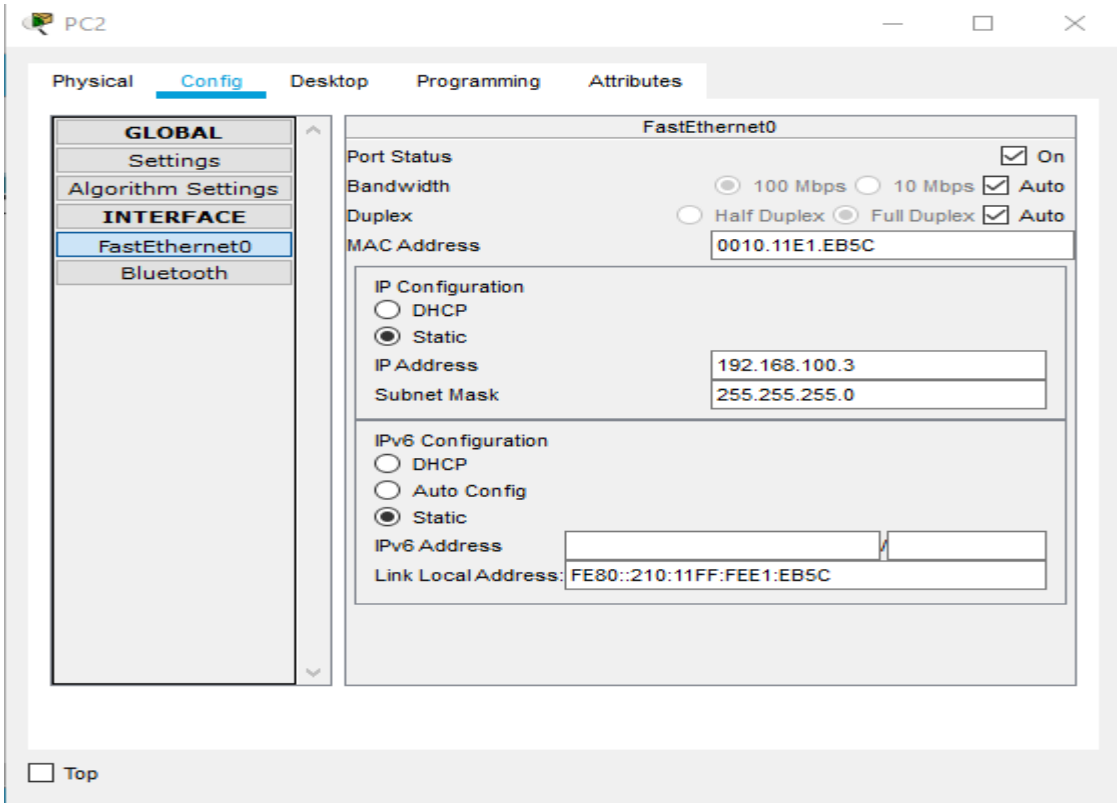

Figure 4.4

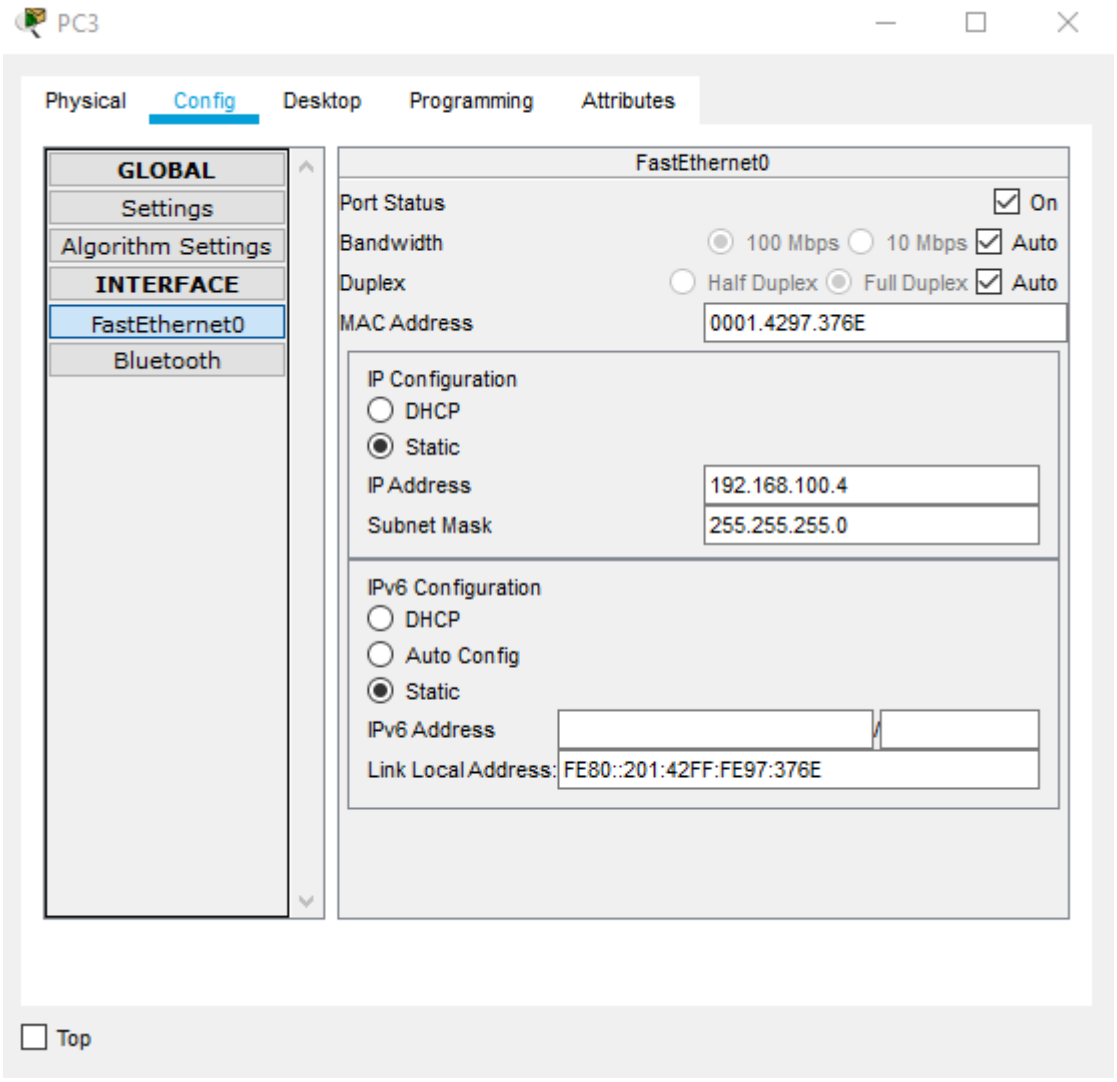
PC3
Physical
Config
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
FastEthernet0
Port Status
On
Bandwidth
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
0001.4297.376E
IP Configuration
DHCP
Static
IP Address
192.168.100.4
Subnet Mask
255.255.255.0
IPv6 Configuration
DHCP
Auto Config
Static
IPv6 Address
Link Local Address:
FE80::201:42FF:FE97:376E
Top

Figure 4.5

d) Start the simulation. Then, open a command prompt at PC1 and ping the PC3. Take a screenshot during the simulation.

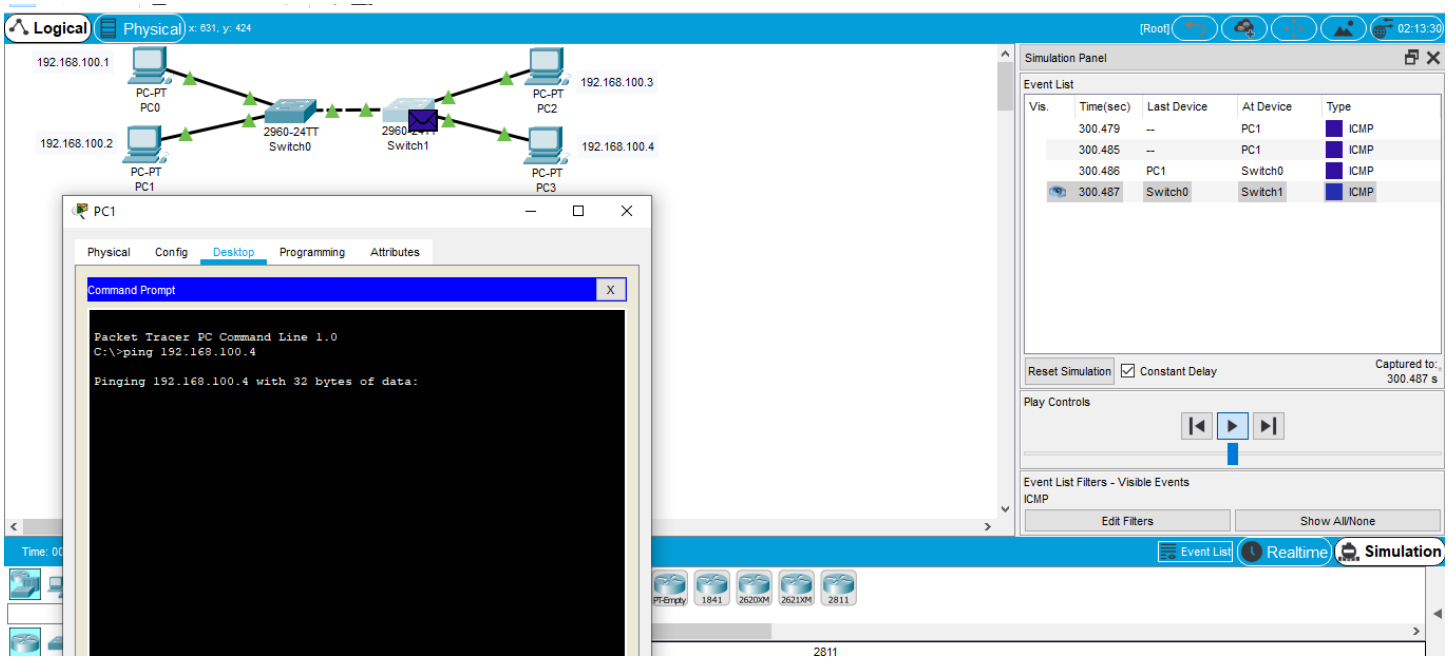

Figure 5.1

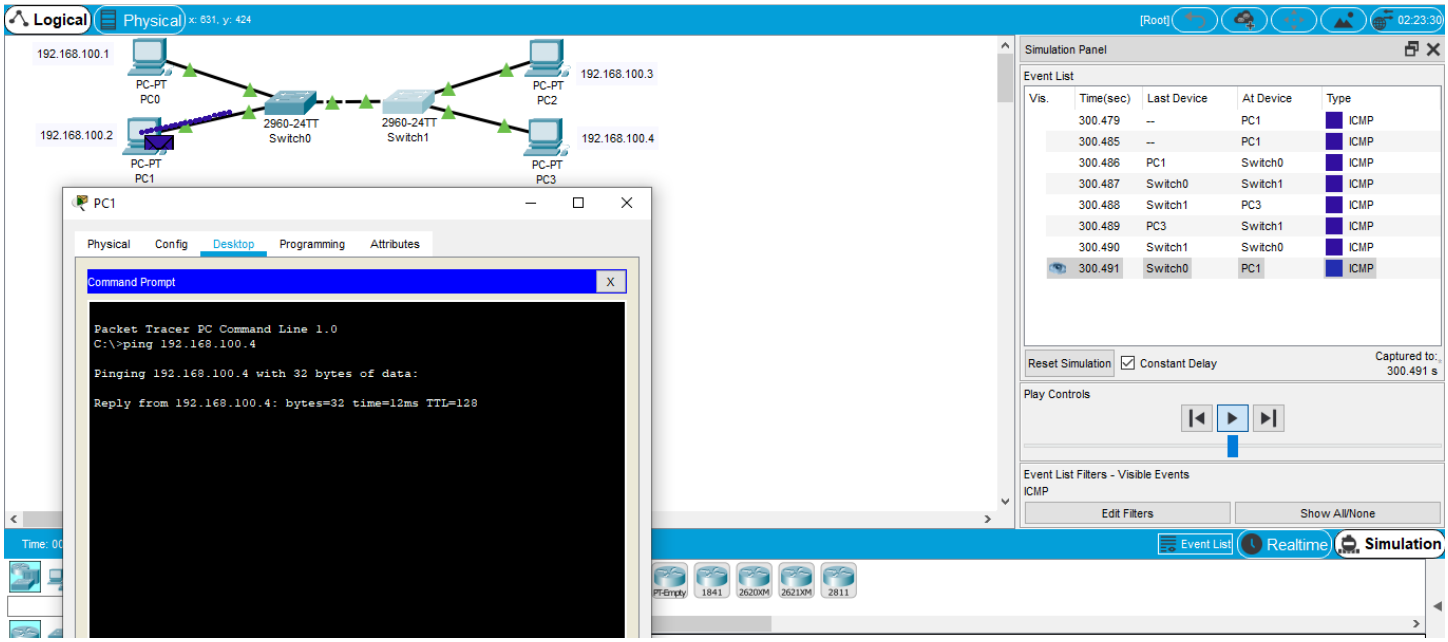

Figure 5.2

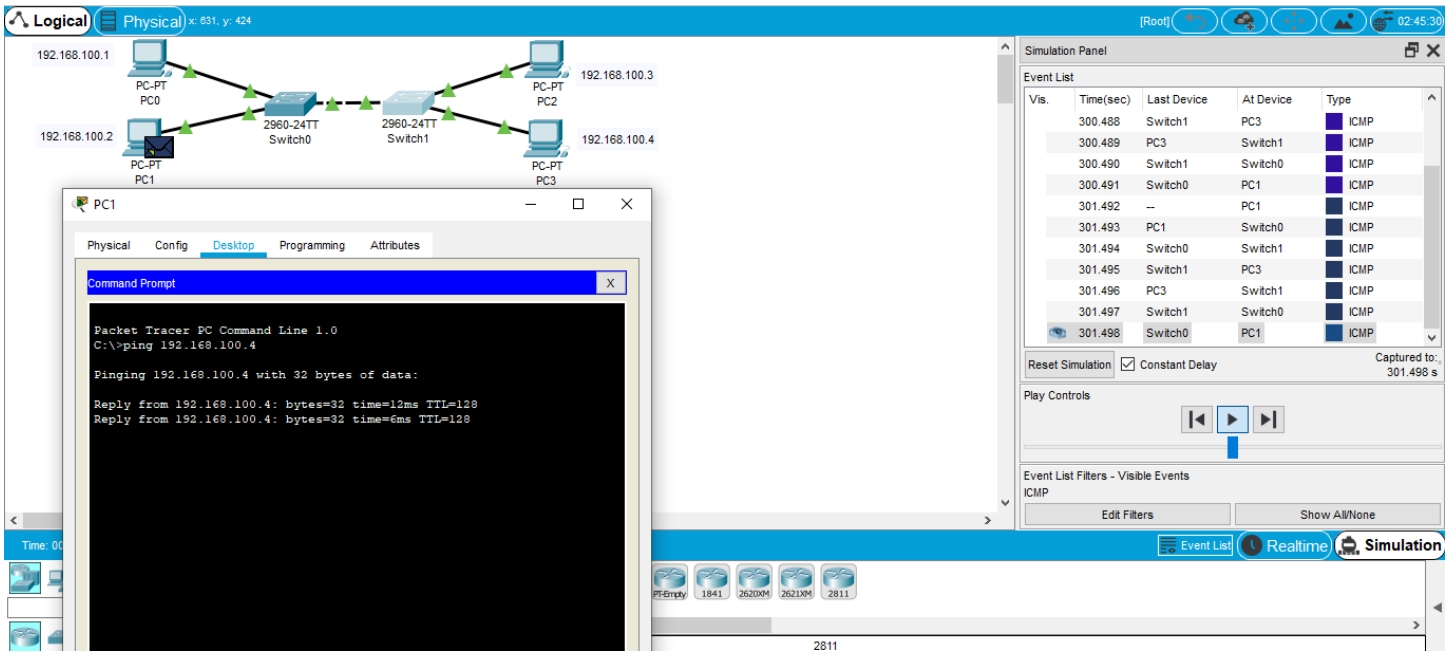

Figure 5.3

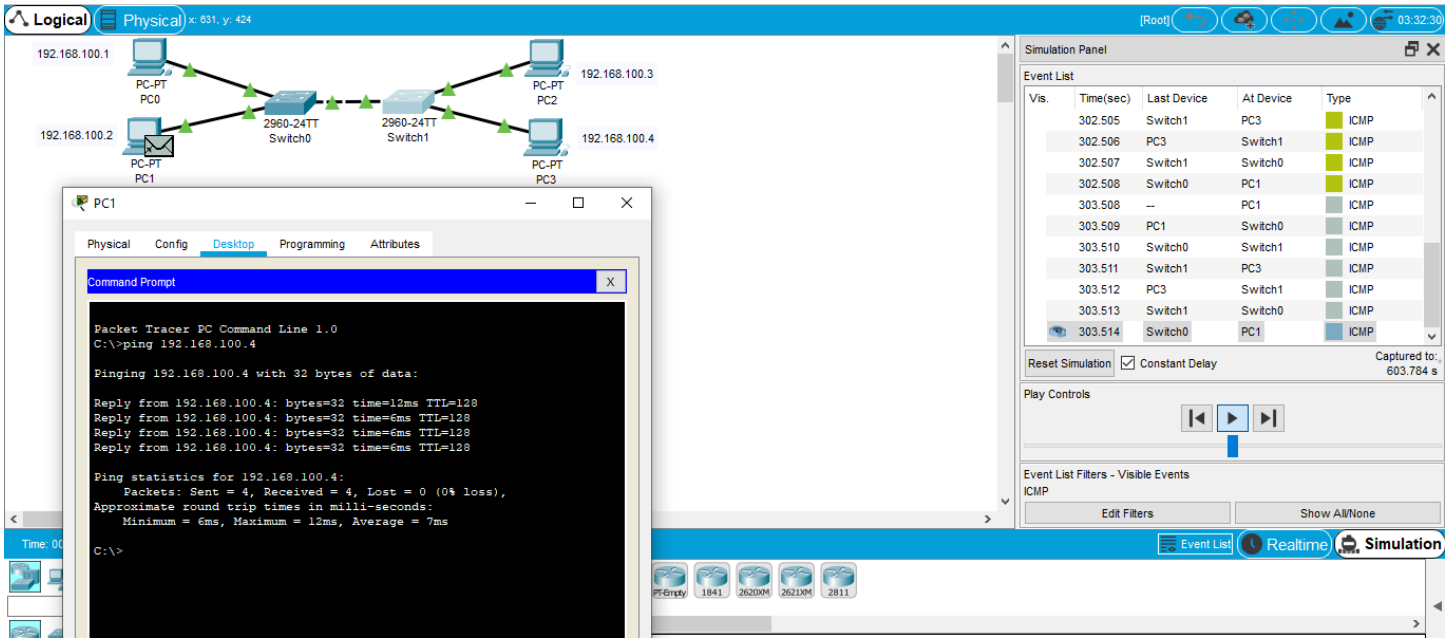

Figure 5.4