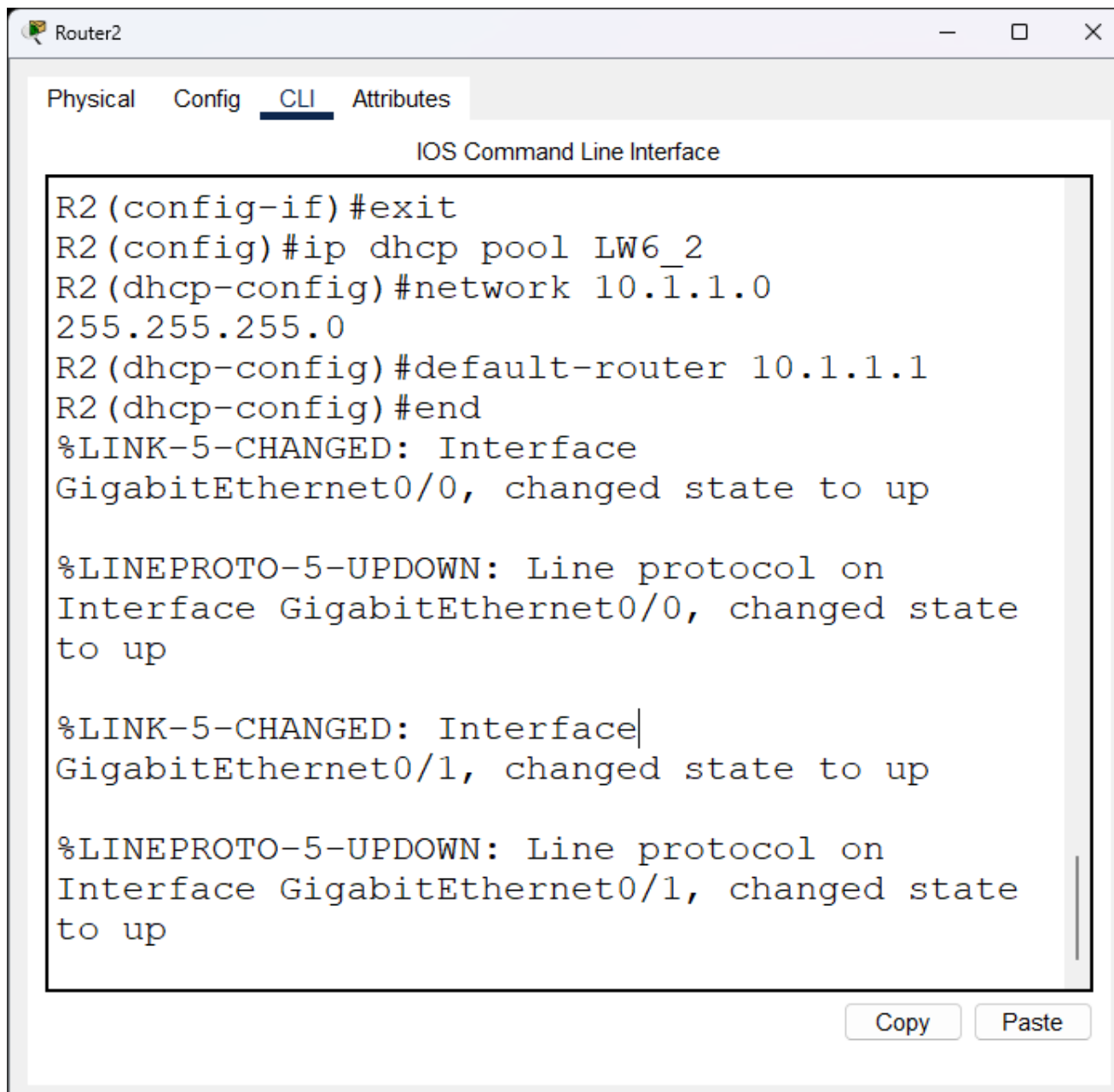


**Cisco Packet Tracer - C__Users_mark_Cisco Packet Tracer
8.2.2_saves_lab5.pkt 5_27_2025 1_52_35 PM.png**



Cisco Packet Tracer - C__Users_mark_Cisco Packet Tracer 8.2.2_saves_lab6.pkt 5_27_2025 2_04_08 PM.png

PDU Information at Device: PC2 ✕

OSI Model Inbound PDU Details

At Device: PC2
Source: PC2
Destination: 10.1.1.2

In Layers

Layer7

Layer6

Layer5

Layer4

Layer 3: IP Header Src. IP: 10.1.1.2,
Dest. IP: 172.16.1.2 ICMP Message
Type: 0

Layer 2: Ethernet II Header
0090.2B58.7B02 >> 0001.6357.E9E2

Layer 1: Port FastEthernet0

Out Layers

Layer7

Layer6

Layer5

Layer4

Layer3

Layer2

Layer1

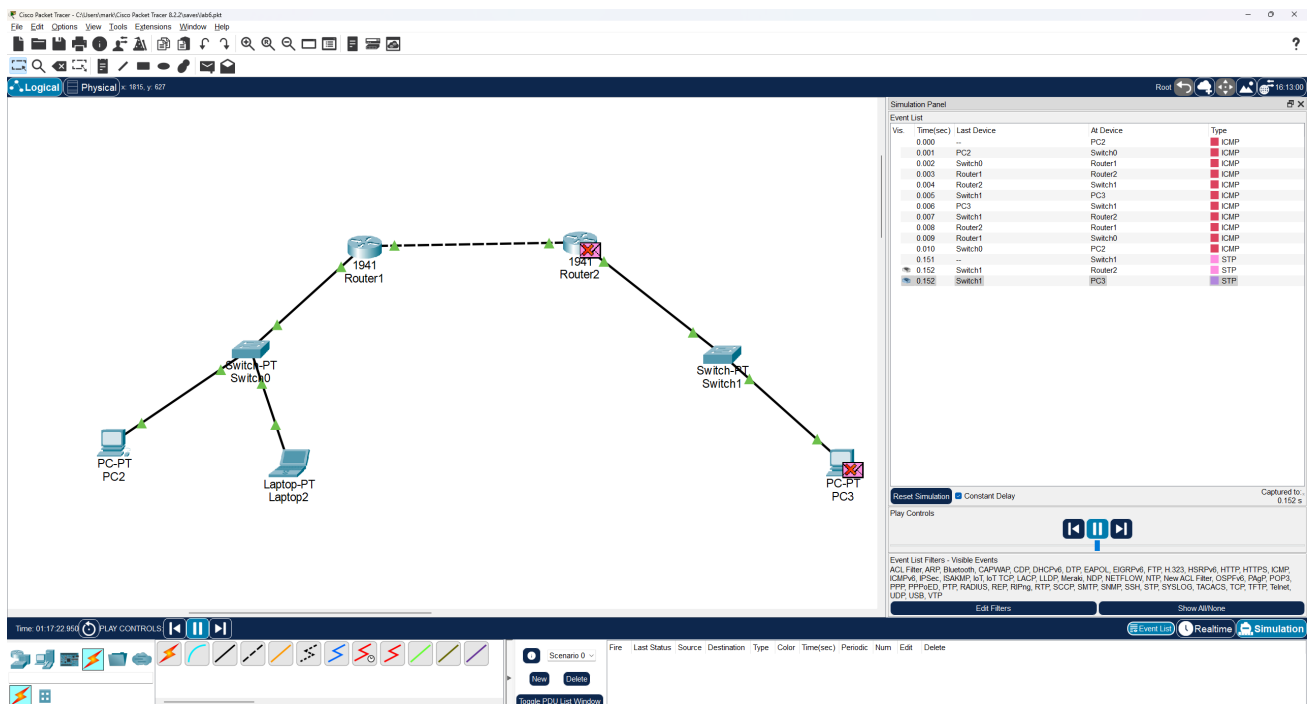
1. FastEthernet0 receives the frame.

Challenge Me

<< Previous Layer

Next Layer >>

Cisco Packet Tracer - C__Users_mark_Cisco Packet Tracer 8.2.2_saves_lab6.pkt 5_27_2025 2_04_11 PM.png



Cisco Router and LAN Configuration Lab - NotebookLM — Mozilla Firefox 5_27_2025 1_53_48 PM.png

PC3

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 10.1.1.2

Subnet Mask 255.255.255.0

Default Gateway 10.1.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:97FF:FE0E:C5B8

Default Gateway

DNS Server

802.1X

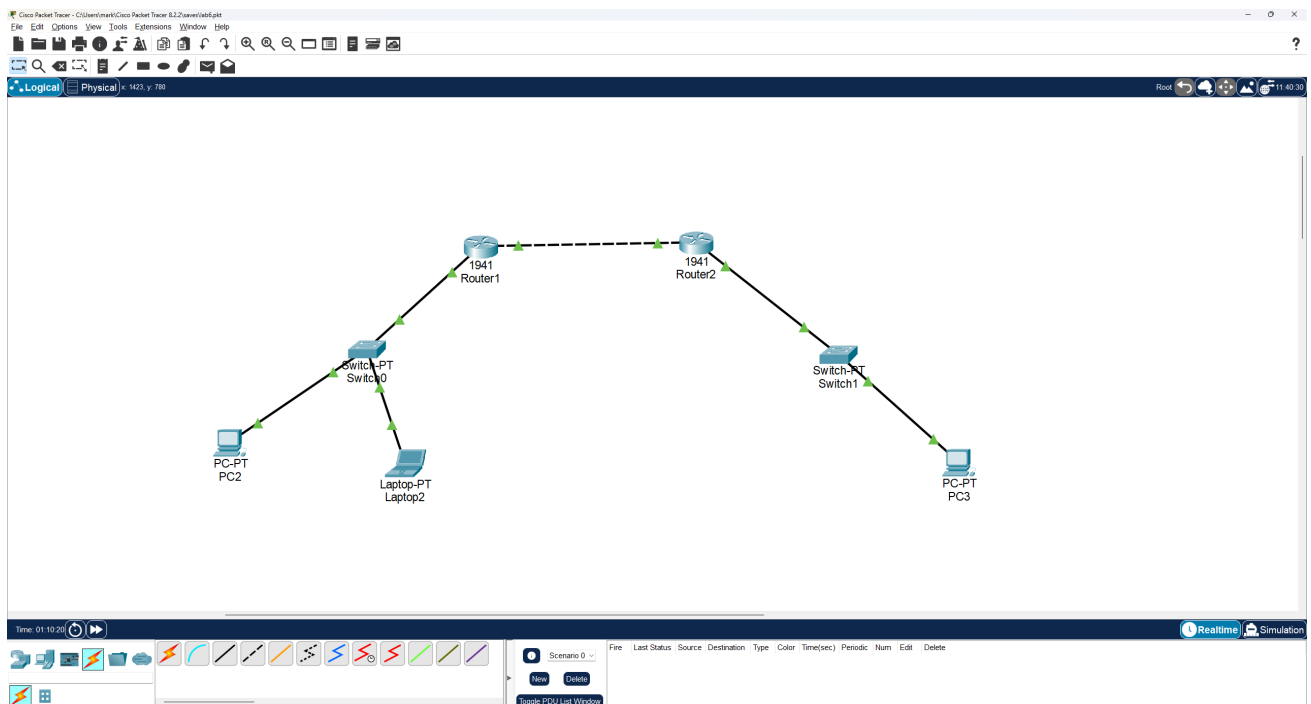
☐ Use 802.1X Security

Authentication MD5

Username

Password

Cisco Router and LAN Configuration Lab - NotebookLM — Mozilla Firefox 5_27_2025 1_55_06 PM.png



Cisco Router and LAN Configuration Lab - NotebookLM — Mozilla Firefox 5_27_2025 2_01_20 PM.png

```
PC2
Physical Config Desktop Programming Attributes
Command Prompt X
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 172.16.1.3

Pinging 172.16.1.3 with 32 bytes of data:

Reply from 172.16.1.3: bytes=32 time<1ms TTL=128
Reply from 172.16.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.1.3:
    Packets: Sent = 2, Received = 2, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

Control-C
^C
C:\>ping 10.1.1.2
|
Pinging 10.1.1.2 with 32 bytes of data:

Request timed out.
Request timed out.
Reply from 10.1.1.2: bytes=32 time<1ms TTL=126
Reply from 10.1.1.2: bytes=32 time<1ms TTL=126

Ping statistics for 10.1.1.2:
    Packets: Sent = 4, Received = 2, Lost = 2 (50% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

PC2 5_27_2025 2_03_41 PM.png

PDU Information at Device: PC3

OSI Model

Inbound PDU Details

Outbound PDU Details

At Device: PC3

Source: PC2

Destination: 10.1.1.2

In Layers

Layer7

Layer6

Layer5

Layer4

Layer 3: IP Header Src. IP: 8.8.8.11,
Dest. IP: 10.1.1.2 ICMP Message Type:
8

Layer 2: Ethernet II Header 0001.42EB.
4202 >> 00D0.970E.C5B8

Layer 1: Port FastEthernet0

Out Layers

Layer7

Layer6

Layer5

Layer4

Layer 3: IP Header Src. IP: 10.1.1.2,
Dest. IP: 8.8.8.11 ICMP Message
Type: 0

Layer 2: Ethernet II Header
00D0.970E.C5B8 >> 0001.42EB.4202

Layer 1: Port(s): FastEthernet0

1. The ICMP process replies to the Echo Request by setting ICMP type to Echo Reply.

2. The ICMP process sends an Echo Reply.

3. The destination IP address 8.8.8.11 is not in the same subnet and is not the broadcast address.

4. The default gateway is set. The device sets the next-hop to default gateway.

Challenge Me

<< Previous Layer

Next Layer >>

PC3 5_27_2025 1_55_17 PM.png

PC3

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address 10.1.1.2

Subnet Mask 255.255.255.0

Default Gateway 10.1.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:97FF:FE0E:C5B8

Default Gateway

DNS Server

802.1X

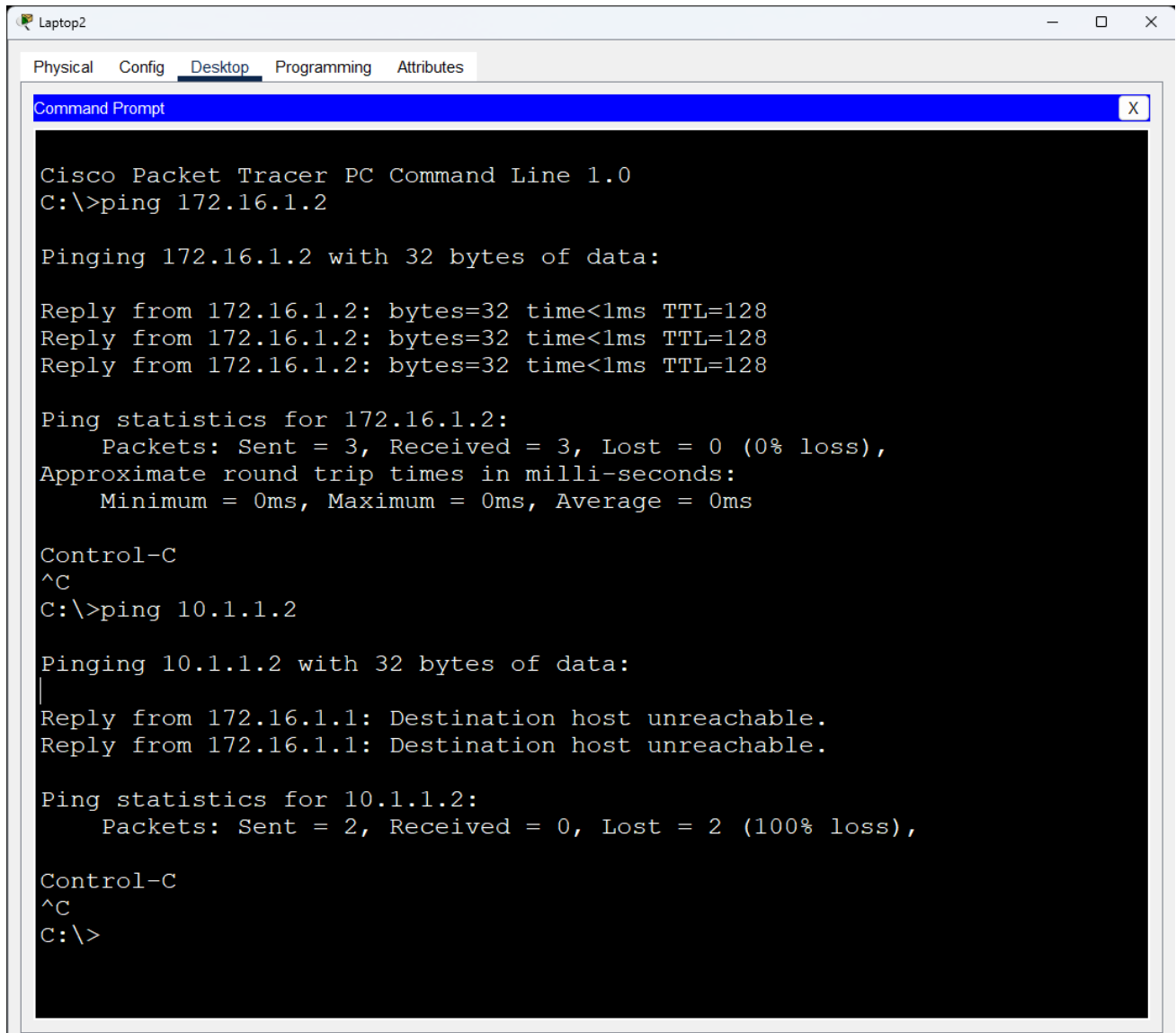
☐ Use 802.1X Security

Authentication MD5

Username

Password

Screenshot 5_27_2025 1_57_03 PM.png



The screenshot shows a Cisco Packet Tracer PC Command Line window titled "Laptop2". The window has tabs for "Physical", "Config", "Desktop", "Programming", and "Attributes", with "Desktop" selected. Inside the window is a "Command Prompt" window with a blue title bar and a close button. The command prompt displays the following text:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 172.16.1.2

Pinging 172.16.1.2 with 32 bytes of data:

Reply from 172.16.1.2: bytes=32 time<1ms TTL=128
Reply from 172.16.1.2: bytes=32 time<1ms TTL=128
Reply from 172.16.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.1.2:
    Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

Control-C
^C
C:\>ping 10.1.1.2

Pinging 10.1.1.2 with 32 bytes of data:
|
Reply from 172.16.1.1: Destination host unreachable.
Reply from 172.16.1.1: Destination host unreachable.

Ping statistics for 10.1.1.2:
    Packets: Sent = 2, Received = 0, Lost = 2 (100% loss),

Control-C
^C
C:\>
```