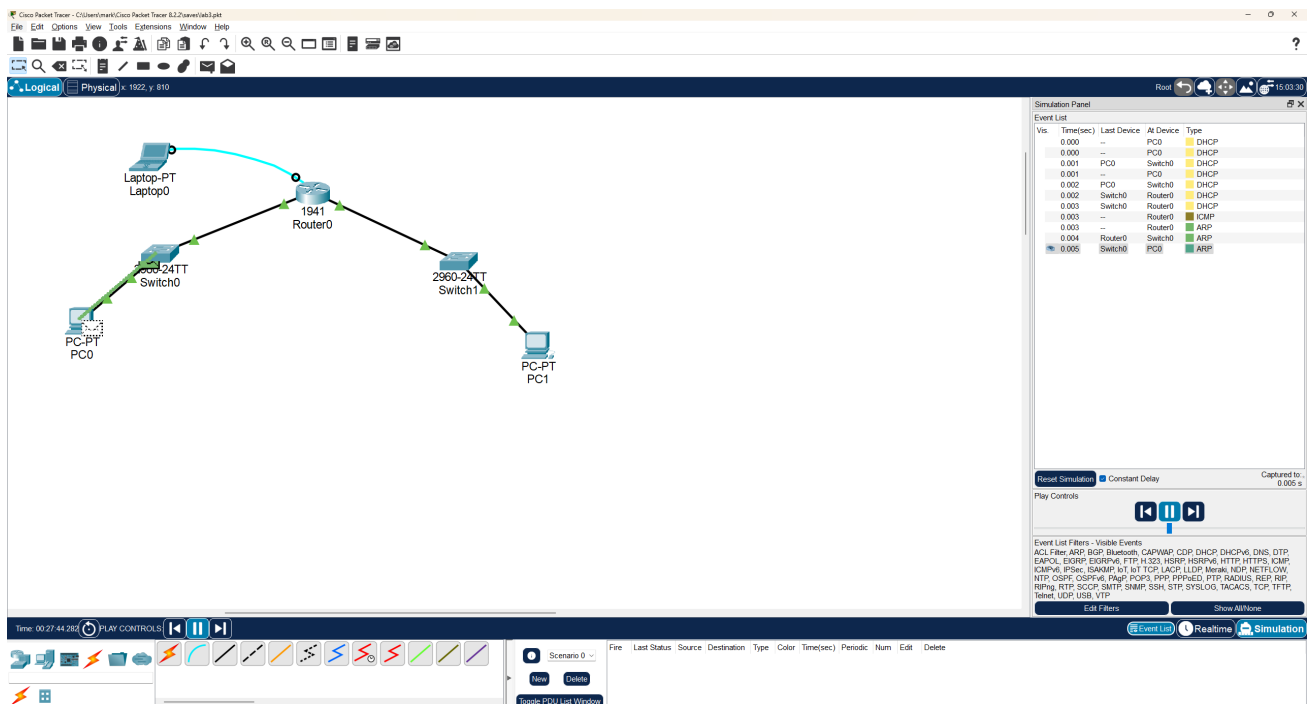


8.2.2_saves_lab3.pkt 5_24_2025 6_36_32 PM.png



Cisco Packet Tracer - C__Users_mark_Cisco Packet Tracer 8.2.2_saves_lab3.pkt 5_24_2025 6_37_30 PM.png

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 192.168.1.11

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::260:5CFF:FEA1:DD55

Default Gateway

DNS Server

802.1X

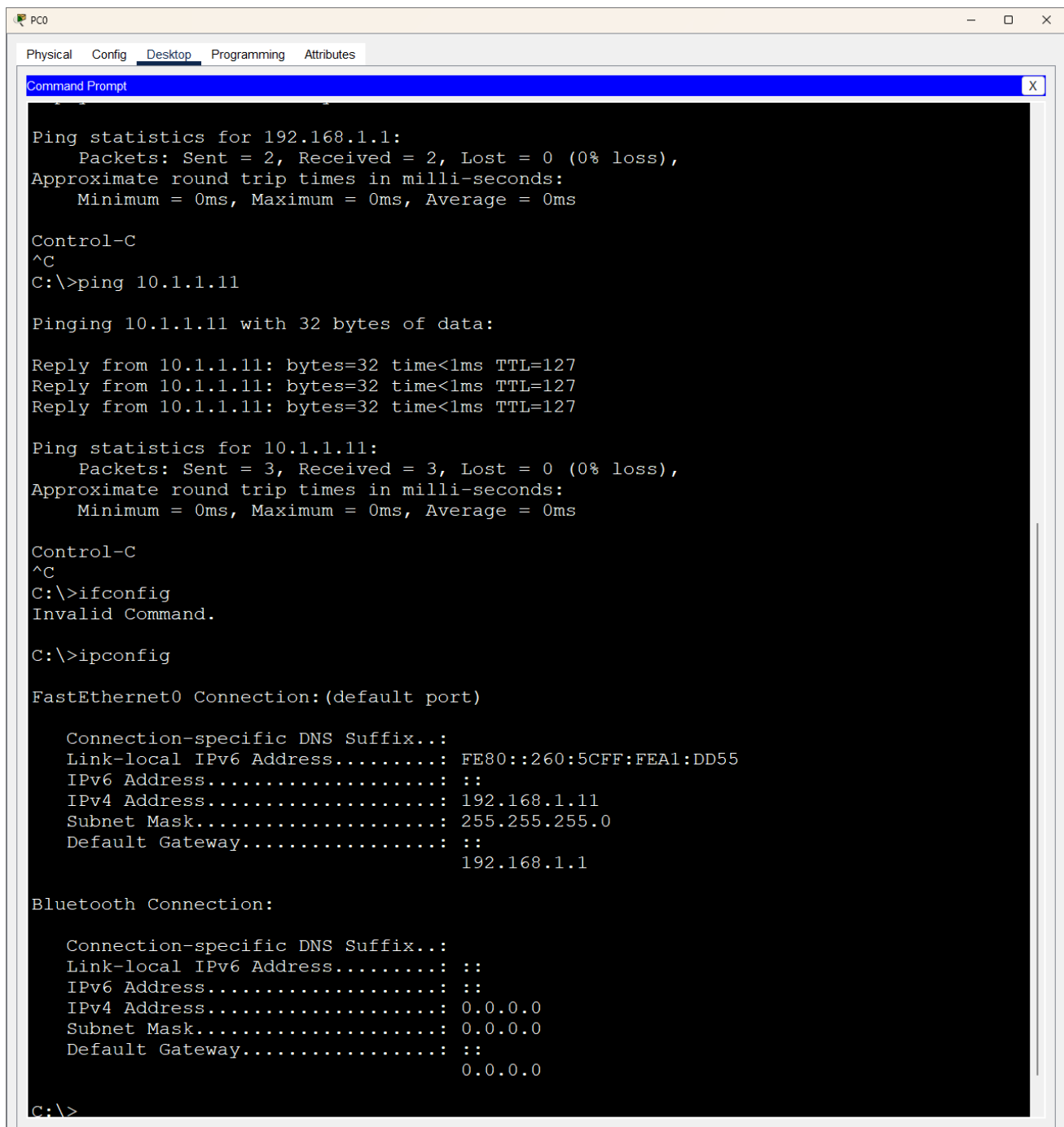
☐ Use 802.1X Security

Authentication MD5

Username

Password

Cisco Packet Tracer - C__Users_mark_Cisco Packet Tracer 8.2.2_saves_lab3.pkt 5_24_2025 6_41_20 PM.png



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt

Ping statistics for 192.168.1.1:
    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 10.1.1.11

Pinging 10.1.1.11 with 32 bytes of data:

Reply from 10.1.1.11: bytes=32 time<1ms TTL=127
Reply from 10.1.1.11: bytes=32 time<1ms TTL=127
Reply from 10.1.1.11: bytes=32 time<1ms TTL=127

Ping statistics for 10.1.1.11:
    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:\>ifconfig
Invalid Command.

C:\>ipconfig

FastEthernet0 Connection:(default port)

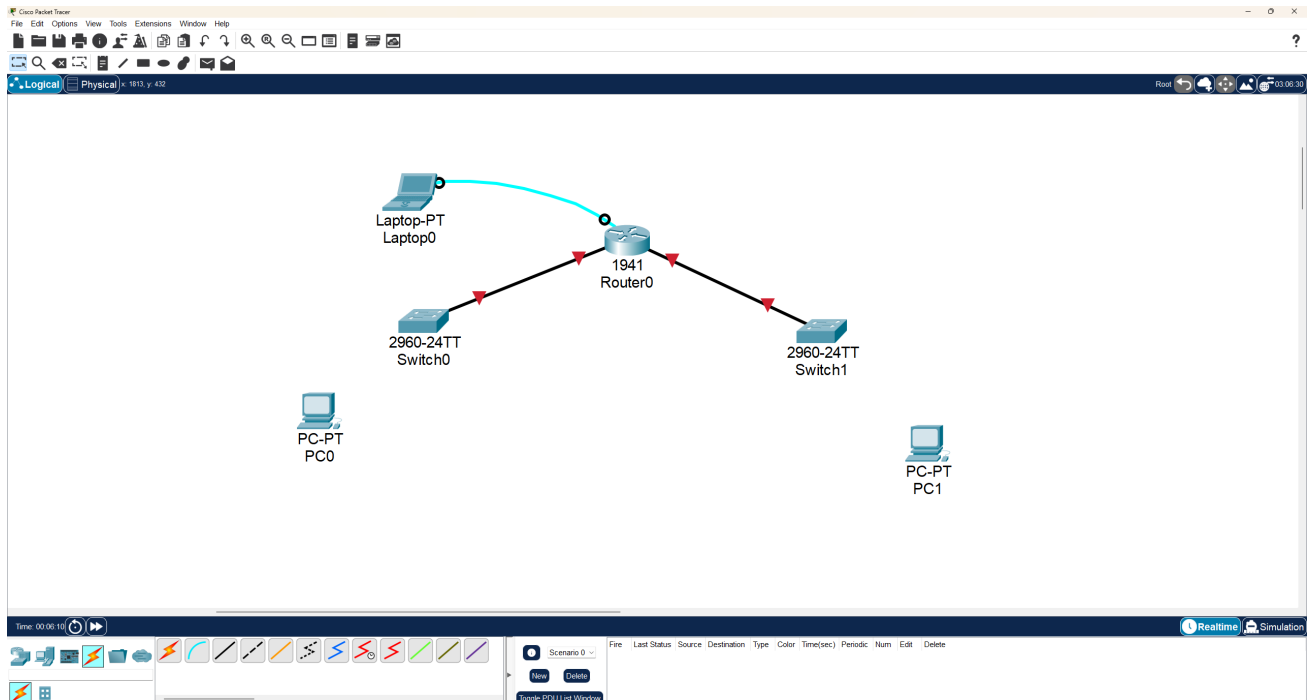
    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::260:5CFF:FEA1:DD55
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.1.11
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::
                                192.168.1.1

Bluetooth Connection:

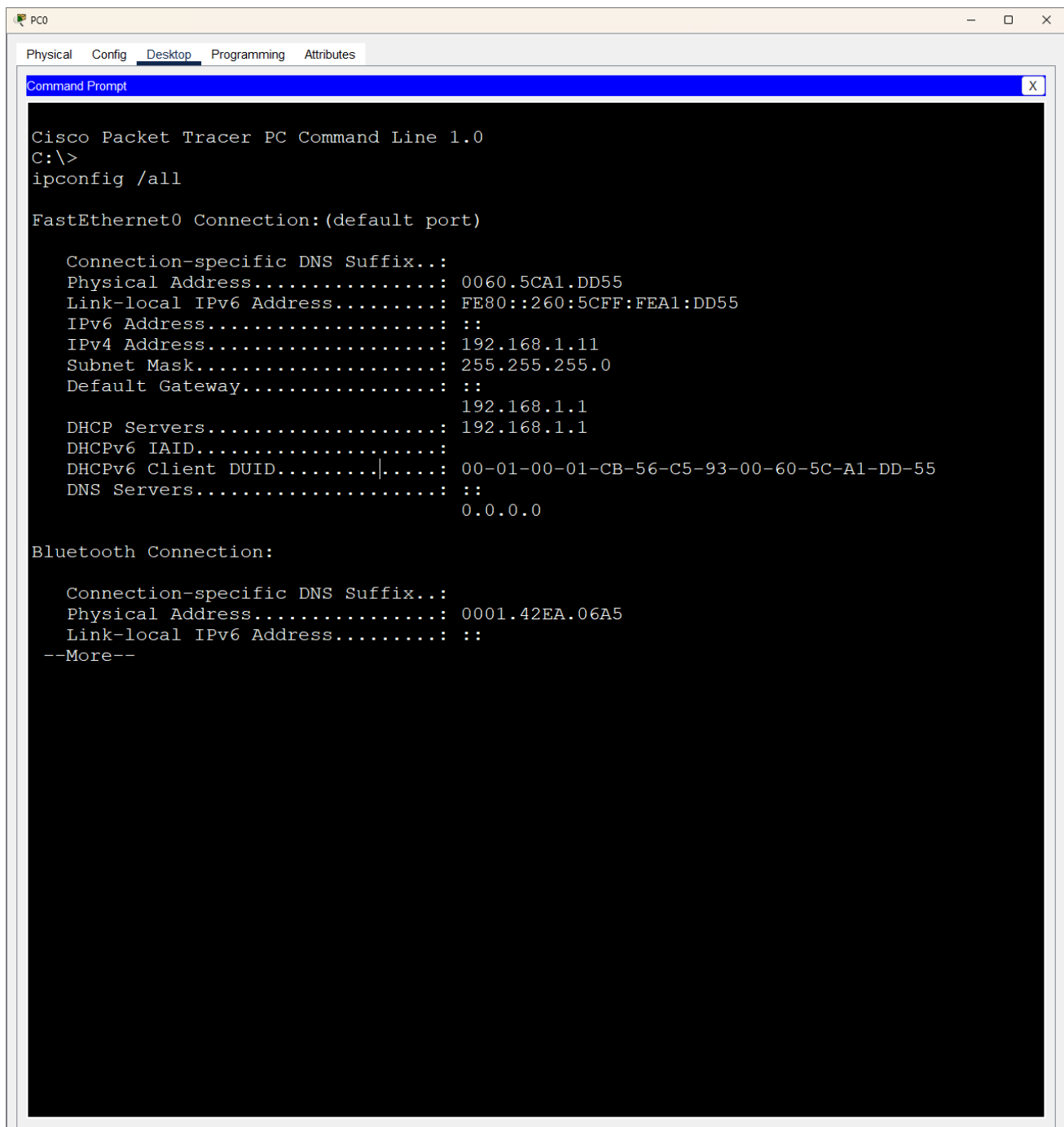
    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: ::
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 0.0.0.0
    Subnet Mask . . . . .: 0.0.0.0
    Default Gateway . . . . .: ::
                                0.0.0.0

C:\>
```

Cisco Packet Tracer 5_24_2025 6_12_37 PM.png



Cisco Router and LAN Configuration Lab - NotebookLM — Mozilla Firefox 5_24_2025 6_32_57 PM.png



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt X
Cisco Packet Tracer PC Command Line 1.0
C:\>
ipconfig /all

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Physical Address.....: 0060.5CA1.DD55
Link-local IPv6 Address.....: FE80::260:5CFF:FEA1:DD55
IPv6 Address.....: ::
IPv4 Address.....: 192.168.1.11
Subnet Mask.....: 255.255.255.0
Default Gateway.....: ::
192.168.1.1
DHCP Servers.....: 192.168.1.1
DHCPv6 IAID.....:
DHCPv6 Client DUID.....: 00-01-00-01-CB-56-C5-93-00-60-5C-A1-DD-55
DNS Servers.....: ::
0.0.0.0

Bluetooth Connection:

Connection-specific DNS Suffix...:
Physical Address.....: 0001.42EA.06A5
Link-local IPv6 Address.....: ::
--More--
```

Laptop0 5_24_2025 6_19_01 PM.png

```
Laptop0
Physical  Config  Desktop  Programming  Attributes

Router#
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 23-Feb-11 14:19 by pt_team

ROM: System Bootstrap, Version 15.1(4)M4, RELEASE SOFTWARE (fc1)
cisco1941 uptime is 7 minutes, 46 seconds
System returned to ROM by power-on
System image file is "flash0:c1900-universalk9-mz.SPA.151-1.M4.bin"
Last reload type: Normal Reload

This product contains cryptographic features and is subject to United
States and local country laws governing import, export, transfer and
use. Delivery of Cisco cryptographic products does not imply
third-party authority to import, export, distribute or use encryption.
Importers, exporters, distributors and users are responsible for
compliance with U.S. and local country laws. By using this product you
agree to comply with applicable laws and regulations. If you are unable
to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:
http://www.cisco.com/wvl/export/crypto/tool/stqrg.html

Router>show ip interface
GigabitEthernet0/0 is administratively down, line protocol is down (disabled)
  Internet protocol processing disabled
GigabitEthernet0/1 is administratively down, line protocol is down (disabled)
  Internet protocol processing disabled
Vlan1 is administratively down, line protocol is down
  Internet protocol processing disabled

Router>enable
Router#show ip interface brief
Interface      IP-Address      OK? Method Status                Protocol
GigabitEthernet0/0    unassigned      YES unset    administratively down down
GigabitEthernet0/1    unassigned      YES unset    administratively down down
Vlan1           unassigned      YES unset    administratively down down

Router#show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

Router#
```

Laptop0 5_24_2025 6_26_18 PM.png

```
Gateway of last resort is not set

Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname R1
R1(config)#interface GigabitEthernet0/0
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
exit
R1(config)#interface GigabitEthernet0/1
R1(config-if)#ip address 10.1.1.1 255.255.255.0
R1(config-if)#no shutdown
R1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
exit
R1(config)#ip dhcp pool LW3_1
R1(dhcp-config)#network 192.168.1.0 255.255.255.0
R1(dhcp-config)#default-router 192.168.1.1
R1(dhcp-config)#exit
R1(Config)#ip dhcp excluded-address 192.168.1.1 192.168.1.10
R1(config)#ip dhcp pool LW3_2
R1(dhcp-config)#
^
% Invalid input detected at '^' marker.

R1(dhcp-config)#
R1(dhcp-config)#network 10.1.1.0 255.255.255.0
R1(dhcp-config)#default-router 10.1.1.1
R1(dhcp-config)#exit
R1(dhcp-config)#ip dhcp excluded-address 10.1.1.1 10.1.1.10
R1(Config)#^2
R1#
%SYS-5-CONFIG I: Configured from console by console
show ip interface brief
Interface      IP-Address      OK? Method Status      Protocol
GigabitEthernet0/0  192.168.1.1    YES manual up          up
GigabitEthernet0/1  10.1.1.1       YES manual up          up
Vlan1          unassigned     YES unset  administratively down down
R1#
```

Laptop0 5_24_2025 6_29_20 PM.png

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 192.168.1.11

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address /

Link Local Address FE80::260:5CFF:FEA1:DD55

Default Gateway

DNS Server

802.1X

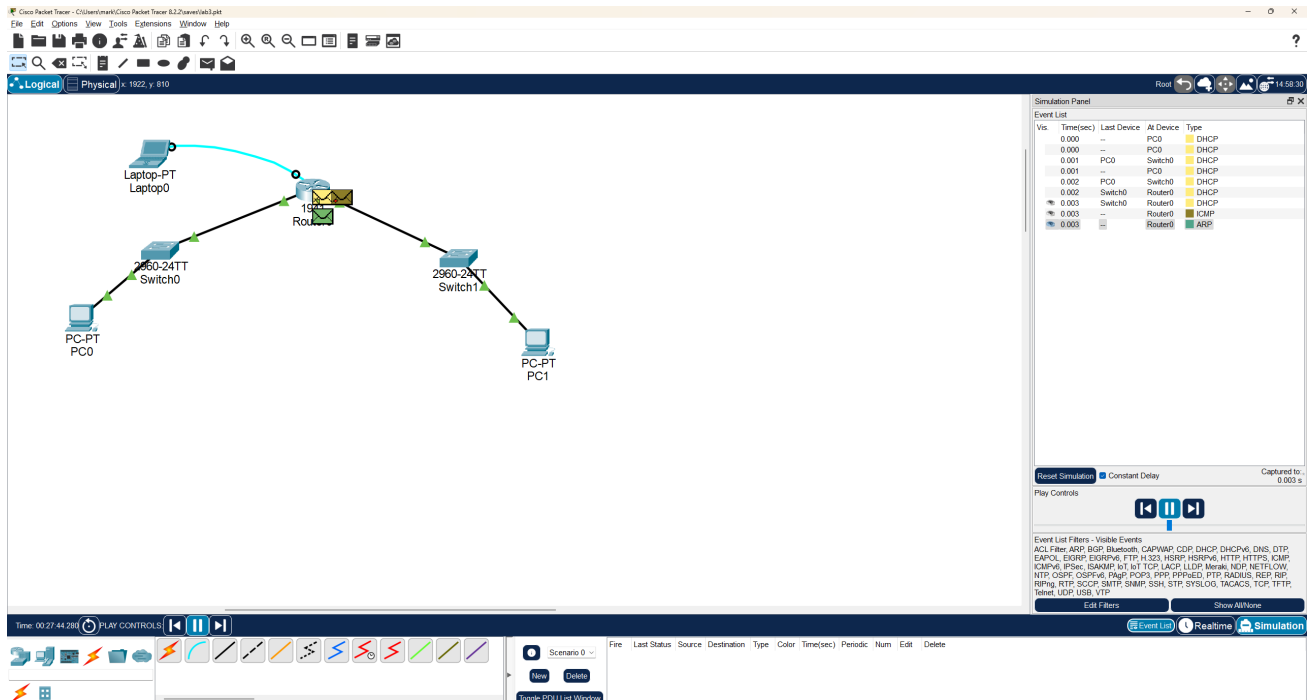
☐ Use 802.1X Security

Authentication MD5

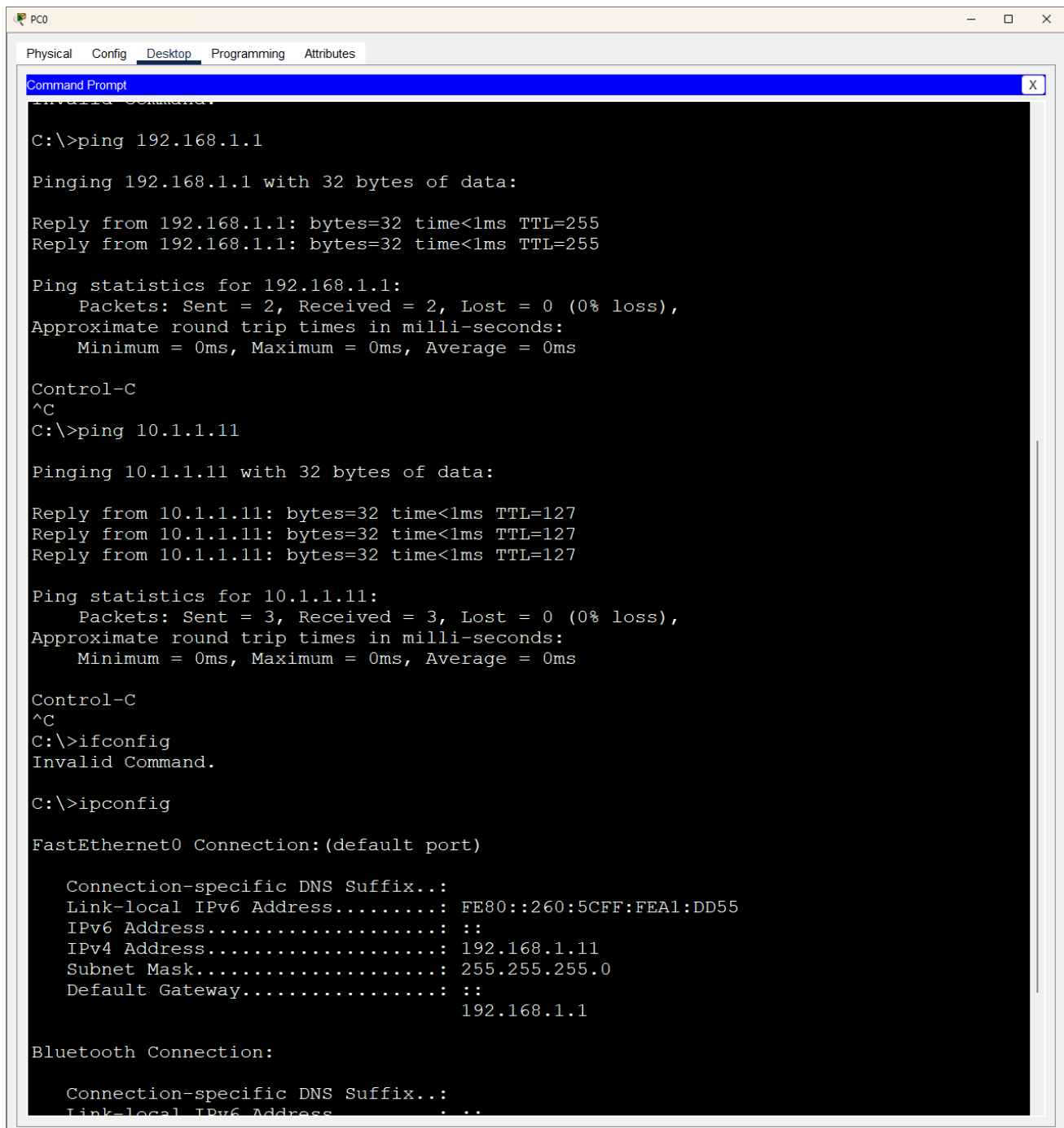
Username

Password

PC0 5_24_2025 6_36_21 PM.png



PC0 5_24_2025 6_41_39 PM.png



```
PC0
Physical Config Desktop Programming Attributes
Command Prompt X

Invalid Command.

C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.1:
    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 10.1.1.11

Pinging 10.1.1.11 with 32 bytes of data:

Reply from 10.1.1.11: bytes=32 time<1ms TTL=127
Reply from 10.1.1.11: bytes=32 time<1ms TTL=127
Reply from 10.1.1.11: bytes=32 time<1ms TTL=127

Ping statistics for 10.1.1.11:
    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:\>ifconfig
Invalid Command.

C:\>ipconfig

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::260:5CFF:FEA1:DD55
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 192.168.1.11
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::
                                   192.168.1.1

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: ::
```

PC0 5_24_2025 6_43_57 PM.png

```
Laptop0
Physical Config Desktop Programming Attributes
Terminal X

R1>ping 192.168.1.11

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.11, timeout is 2
seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/1
ms

R1>ping 10.1.1.11
|
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.1.11, timeout is 2
seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 0/0/1
ms

R1>show ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile,
B - BGP
        D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter
area
        N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external
type 2
        E1 - OSPF external type 1, E2 - OSPF external type 2, E -
EGP
        i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia -
IS-IS inter area
        * - candidate default, U - per-user static route, o - ODR
        P - periodic downloaded static route

Gateway of last resort is not set

    10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C       10.1.1.0/24 is directly connected, GigabitEthernet0/1
L       10.1.1.1/32 is directly connected, GigabitEthernet0/1
    192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.1.0/24 is directly connected, GigabitEthernet0/0
L       192.168.1.1/32 is directly connected, GigabitEthernet0/0

R1>
```

PC1 5_24_2025 6_29_34 PM.png

PC1

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IPv4 Address 10.1.1.11

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::201:43FF:FE3D:51DC

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

Password