

The screenshot displays the Cisco Packet Tracer interface with a network topology. At the top, the title bar reads "Cisco Packet Tracer - C:\Users\leyab\Cisco Packet Tracer 8.2.2\saves\Lab8\_leya.pkt". Below it is a menu bar (File, Edit, Options, View, Tools, Extensions, Window, Help) and a toolbar. The main workspace shows a network diagram with two switches, S1 and S2, connected via their GigabitEthernet 1/0/3 ports. Switch S1 is connected to PC1 (Vlan 20) on Fa0/10, PC2 (Vlan 10) on Fa0/11, and a "royue Laptop" (Vlan 10) on Fa0/18. Switch S2 is connected to PC0 (Vlan 20) on Fa0/11. A text box in the upper center lists IP addresses: "Vlan 10: X 192.168.10.0/24", "Vlan 20: Y 192.168.20.0/24", and "Vlan 99: Management 192.168.99.0/24". The bottom status bar shows the time as 00:13:53, and the bottom right corner displays the Windows taskbar with the date 6/5/2024 and time 1:46 AM.

The image displays four screenshots of the Cisco Packet Tracer interface, showing the configuration of four PCs (PC0, PC1, PC2, and PC3). Each PC is configured with IP Configuration and 802.1X settings.

**PC0 Configuration:**

- Interface: FastEthernet0
- IP Configuration:
  - Static (selected)
  - IPv4 Address: 192.168.10.10
  - Subnet Mask: 255.255.255.0
  - Default Gateway: 0.0.0.0
  - DNS Server: 0.0.0.0
- IPv6 Configuration:
  - Static (selected)
  - IPv6 Address: FE80::2D0:58FF:FE3E:4E41
  - Link Local Address: FE80::2D0:58FF:FE3E:4E41
  - Default Gateway:
  - DNS Server:
- 802.1X:
  - Use 802.1X Security:
  - Authentication: MD5
  - Username:
  - Password:

**PC1 Configuration:**

- Interface: FastEthernet0
- IP Configuration:
  - Static (selected)
  - IPv4 Address: 192.168.20.10
  - Subnet Mask: 255.255.255.0
  - Default Gateway: 0.0.0.0
  - DNS Server: 0.0.0.0
- IPv6 Configuration:
  - Static (selected)
  - IPv6 Address: FE80::201:C9FF:FE14:D10E
  - Link Local Address: FE80::201:C9FF:FE14:D10E
  - Default Gateway:
  - DNS Server:
- 802.1X:
  - Use 802.1X Security:
  - Authentication: MD5
  - Username:
  - Password:

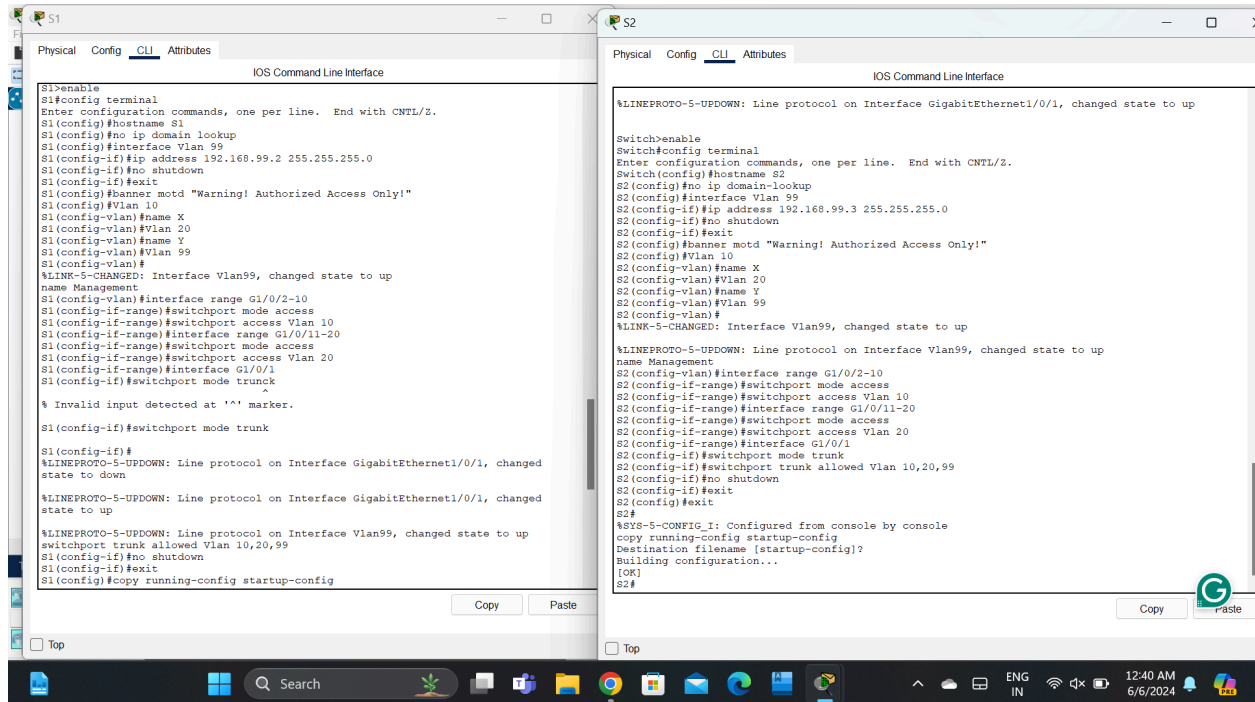
**PC2 Configuration:**

- Interface: FastEthernet0
- IP Configuration:
  - Static (selected)
  - IPv4 Address: 192.168.10.11
  - Subnet Mask: 255.255.255.0
  - Default Gateway: 0.0.0.0
  - DNS Server: 0.0.0.0
- IPv6 Configuration:
  - Static (selected)
  - IPv6 Address:
  - Link Local Address: FE80::202:4AFF:FEBA:CB46
  - Default Gateway:
  - DNS Server:
- 802.1X:
  - Use 802.1X Security:
  - Authentication: MD5
  - Username:
  - Password:

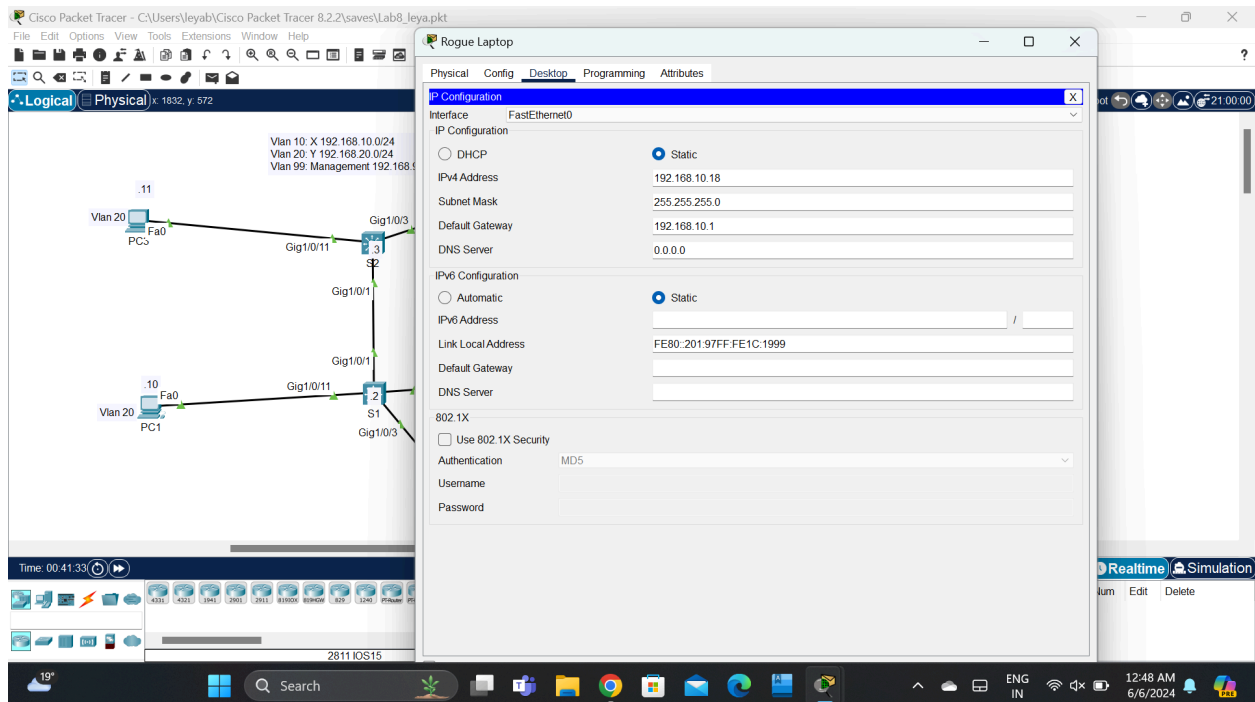
**PC3 Configuration:**

- Interface: FastEthernet0
- IP Configuration:
  - Static (selected)
  - IPv4 Address: 192.168.20.11
  - Subnet Mask: 255.255.255.0
  - Default Gateway: 0.0.0.0
  - DNS Server: 0.0.0.0
- IPv6 Configuration:
  - Static (selected)
  - IPv6 Address:
  - Link Local Address: FE80::207:ECFF:FE13:5AD6
  - Default Gateway:
  - DNS Server:
- 802.1X:
  - Use 802.1X Security:
  - Authentication: MD5
  - Username:
  - Password:

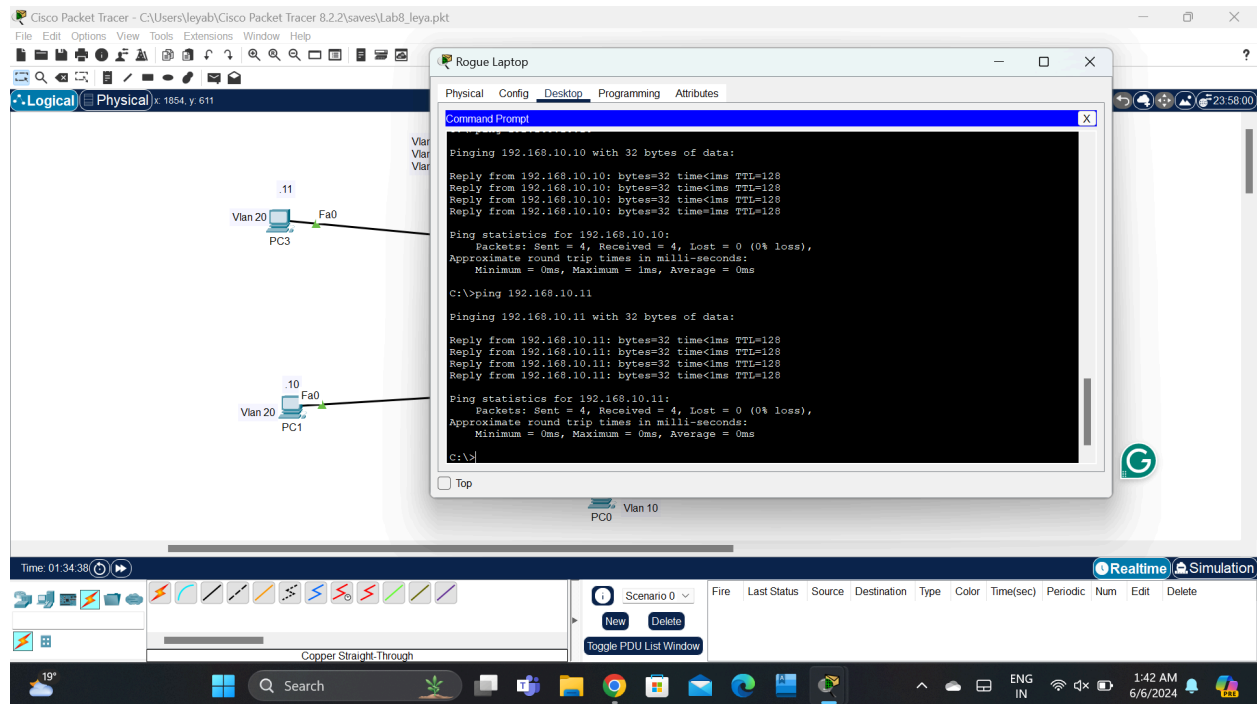
## Step 3: Configure and Verify



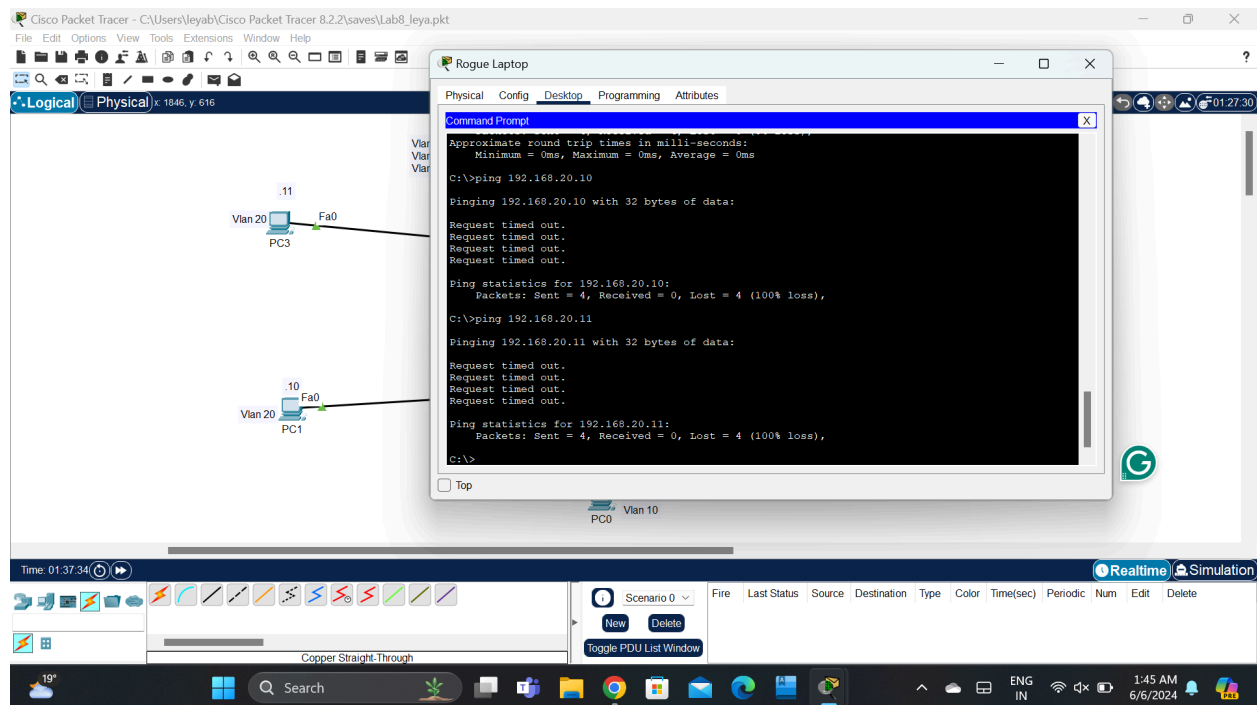
## Step 4: Add a New Laptop



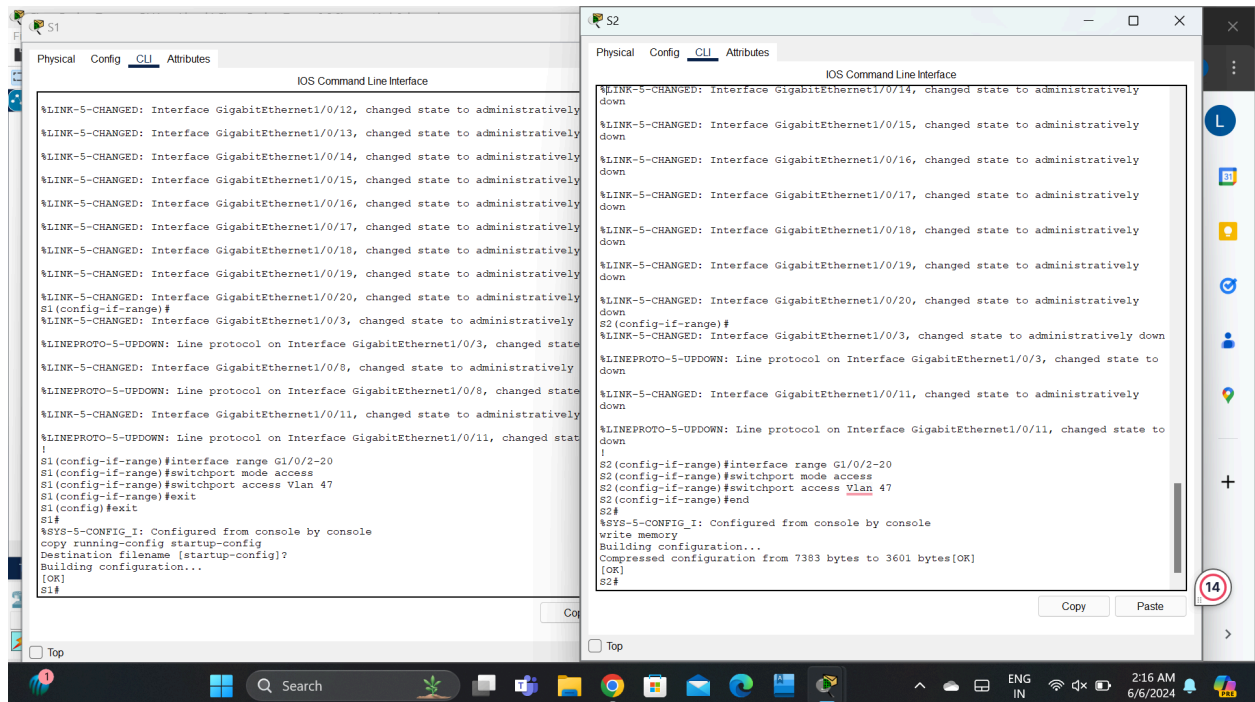
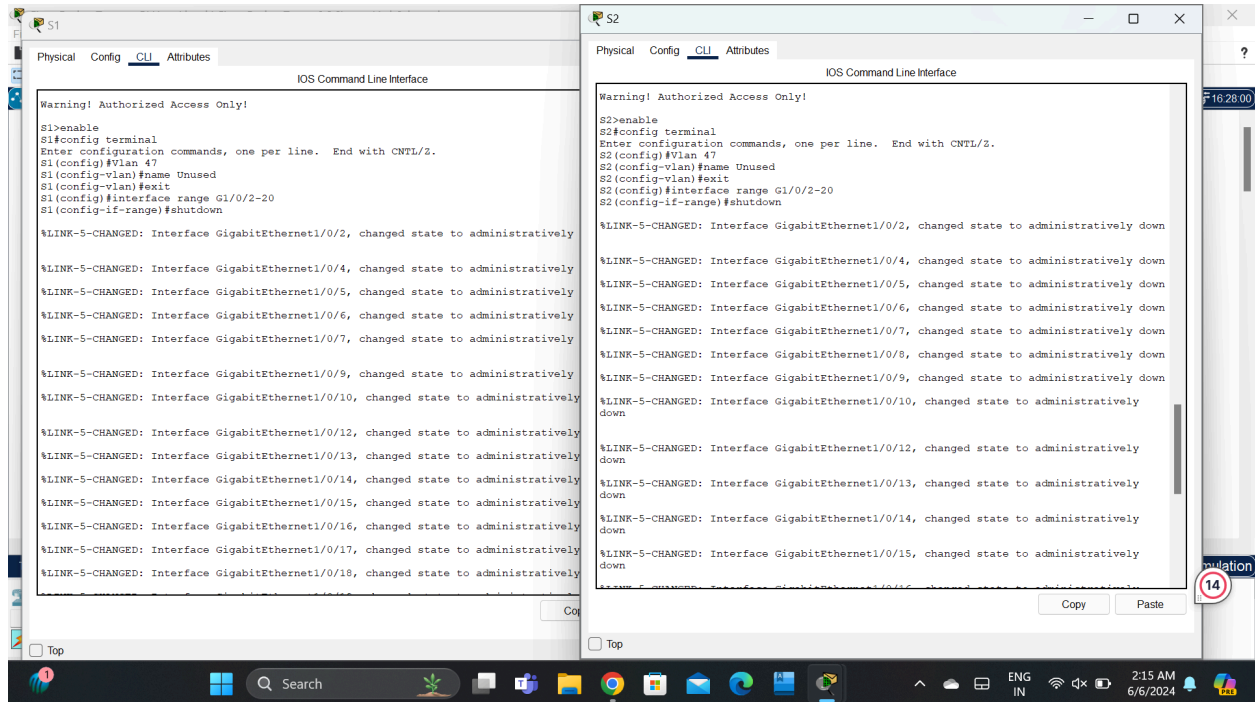
PC0 and 2 are in the same subnet as the rouge laptop allowing them to communicate successfully.

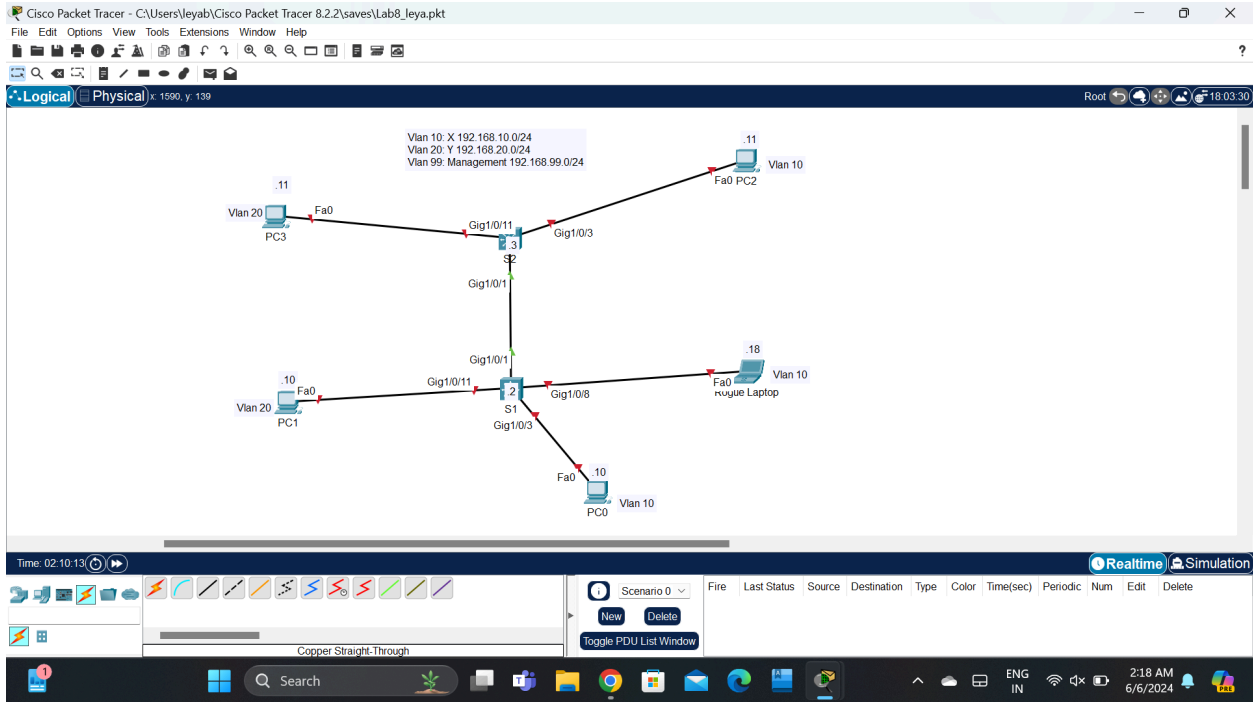


PC 1 and 3 are in a different subnet than the rouge laptop so they cannot communicate directly without a layer 3 device.



Select all unused ports, using only one command.





Physical Config CLI Attributes

IOS Command Line Interface

```

%LINK-5-CHANGED: Interface GigabitEthernet1/0/11, changed state to administratively
down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/11, changed state
to down
S1(config-if-range)#interface range G1/0/2-20
S1(config-if-range)#switchport mode access
S1(config-if-range)#switchport access Vlan 47
S1(config-if-range)#exit
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
S1#enable
S1#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#interface G1/0/8
S1(config-if)#no shutdown

S1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet1/0/8, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/8, changed state
to up
interface G1/0/8
S1(config-if)#shutdown

S1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet1/0/8, changed state to administratively
down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/8, changed state
to down
S1(config-if)#interface G1/0/8
S1(config-if)#no shutdown

S1(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet1/0/8, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/8, changed state
to up
S1(config-if)#exit
S1(config)#

```

Copy

Physical Config CLI Attributes

IOS Command Line Interface

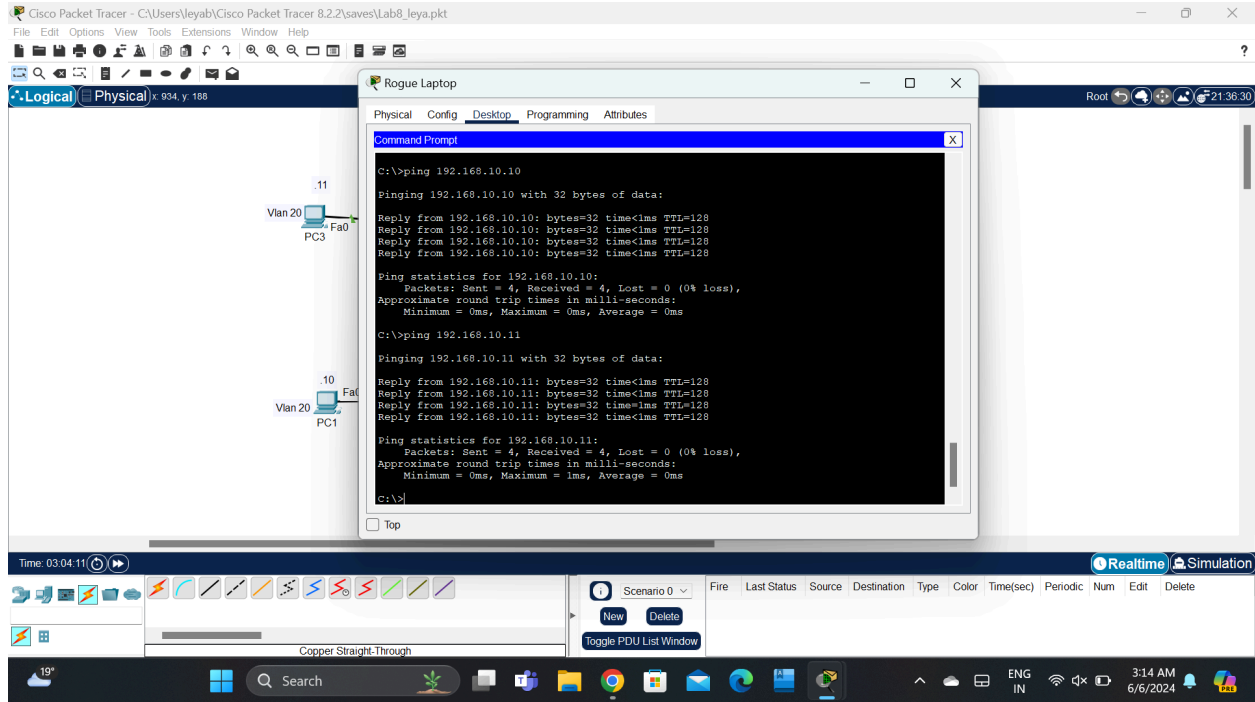
```

%LINK-5-CHANGED: Interface GigabitEthernet1/0/17, changed state to administratively
down
%LINK-5-CHANGED: Interface GigabitEthernet1/0/18, changed state to administratively
down
%LINK-5-CHANGED: Interface GigabitEthernet1/0/19, changed state to administratively
down
%LINK-5-CHANGED: Interface GigabitEthernet1/0/20, changed state to administratively
down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/3, changed state to
down
%LINK-5-CHANGED: Interface GigabitEthernet1/0/11, changed state to administratively
down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0/11, changed state
to down
S2(config-if-range)#interface range G1/0/2-20
S2(config-if-range)#switchport mode access
S2(config-if-range)#switchport access Vlan 47
S2(config-if-range)#end
S2#
%SYS-5-CONFIG_I: Configured from console by console
write memory
Building configuration...
Compressed configuration from 7383 bytes to 3601 bytes[OK]
[OK]
S2#enable
S2#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#interface G1/0/8
S2(config-if)#no shutdown

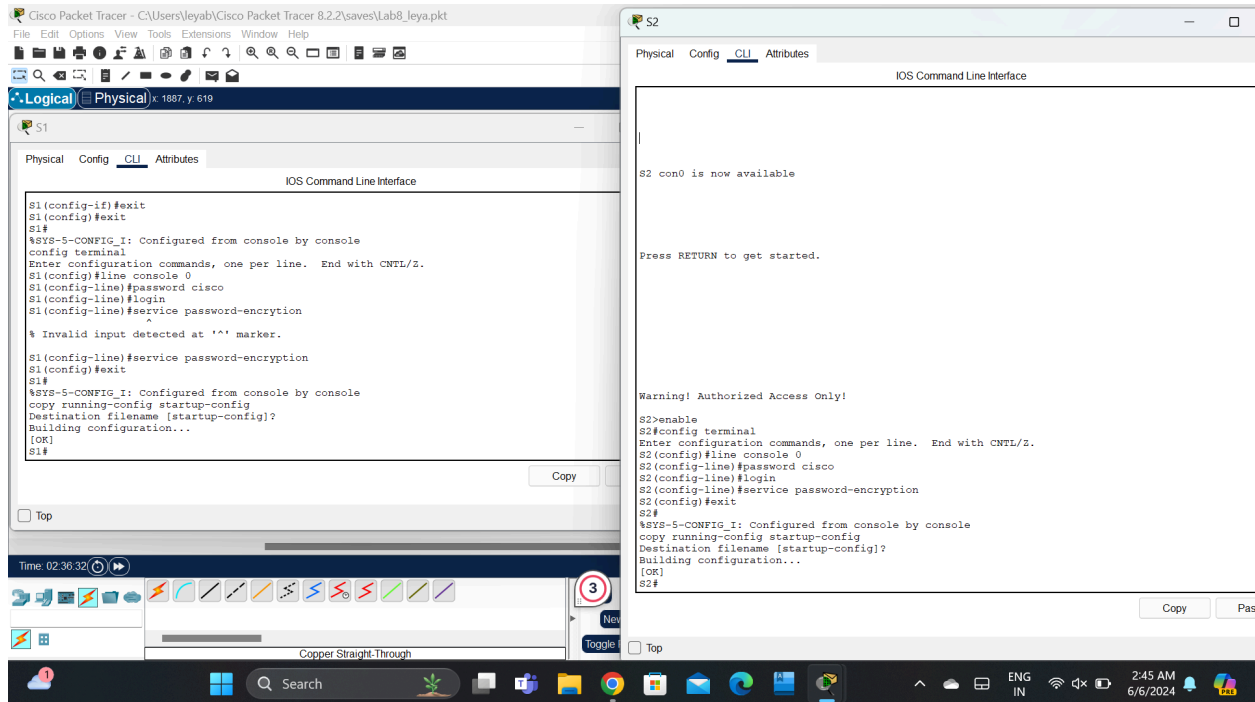
%LINK-5-CHANGED: Interface GigabitEthernet1/0/8, changed state to down
S2(config-if)#exit
S2(config)#

```

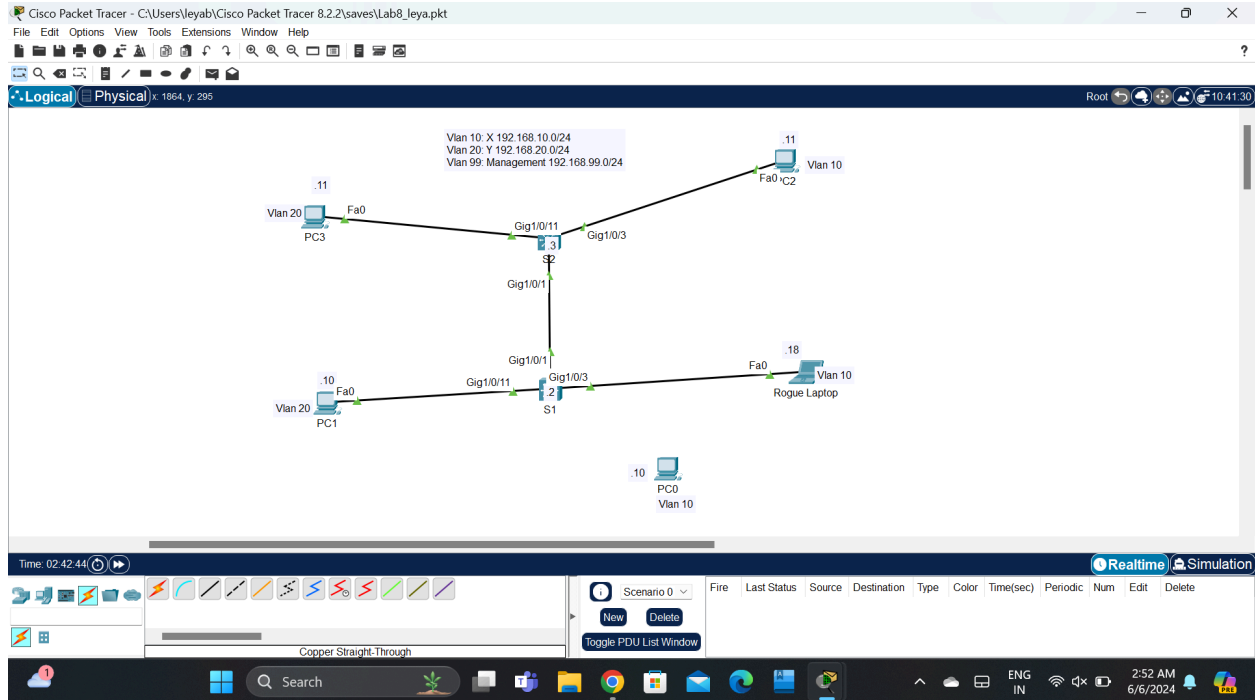
Copy Paste



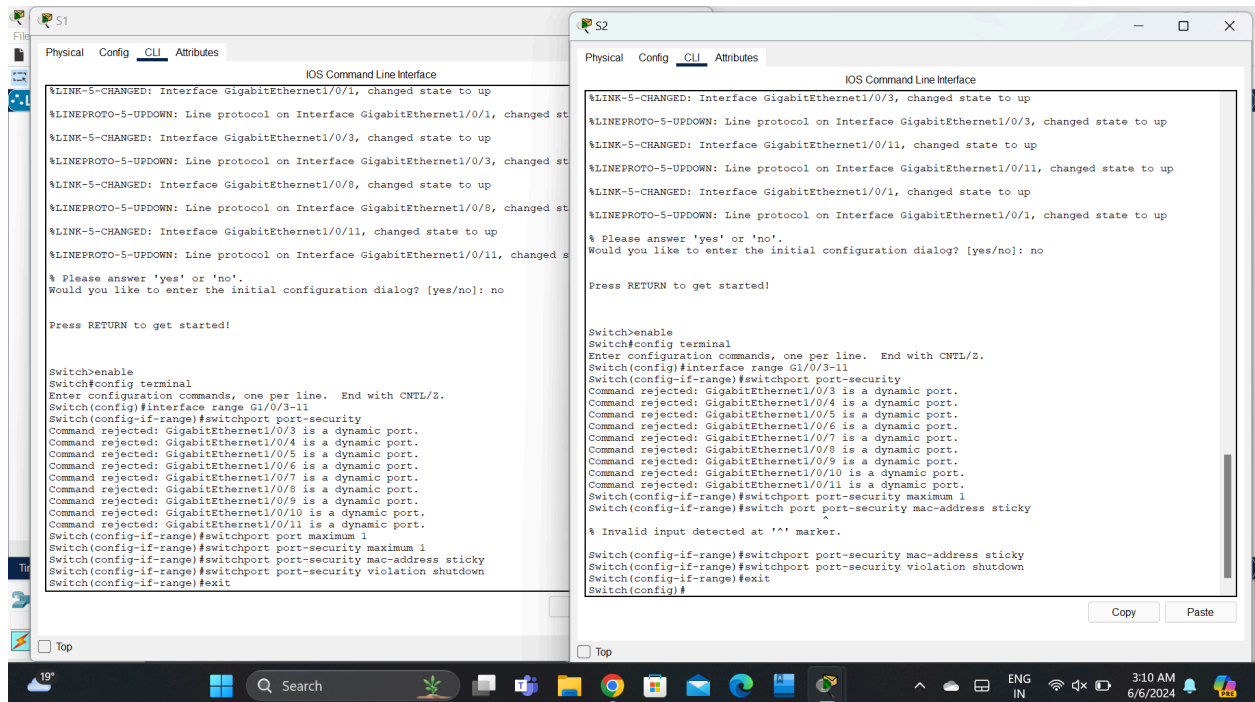
Secure the console port:



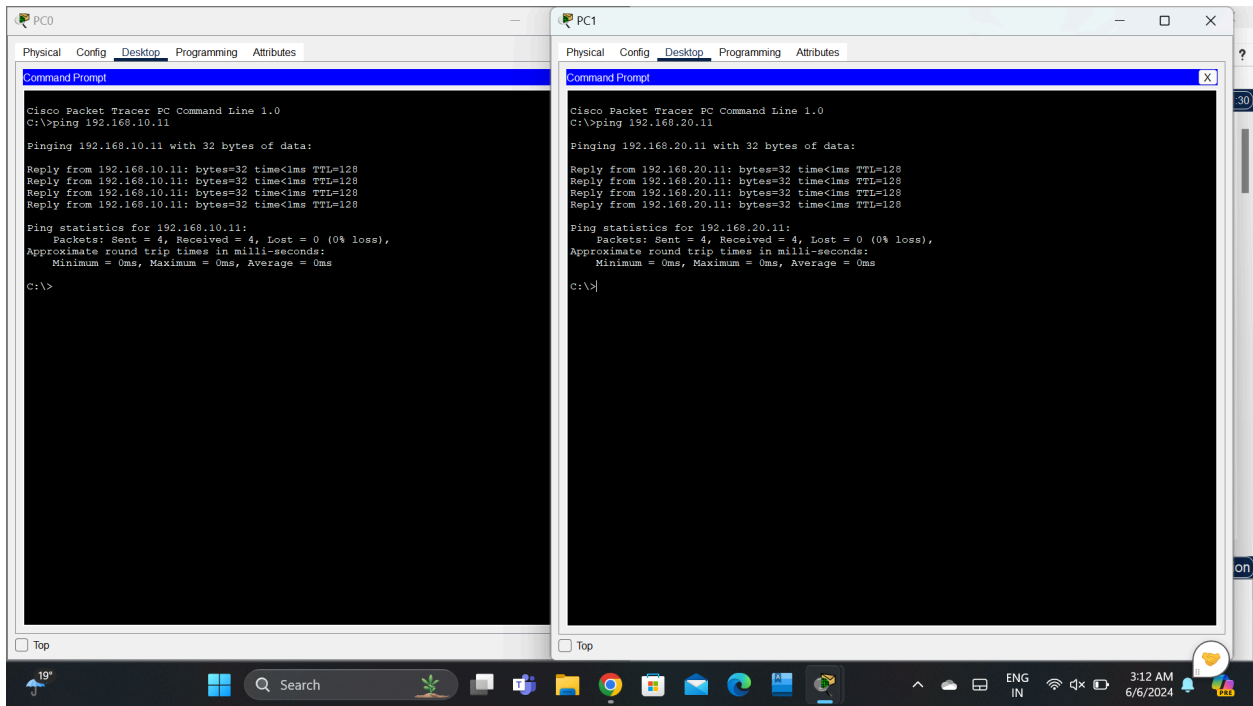
## Disconnect the Ethernet cable between the Rogue laptop and S1



## Step 5: Configure Switchport Security







PC1 and 3 were unsuccessful.

