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**Name: Sajawal Khan**

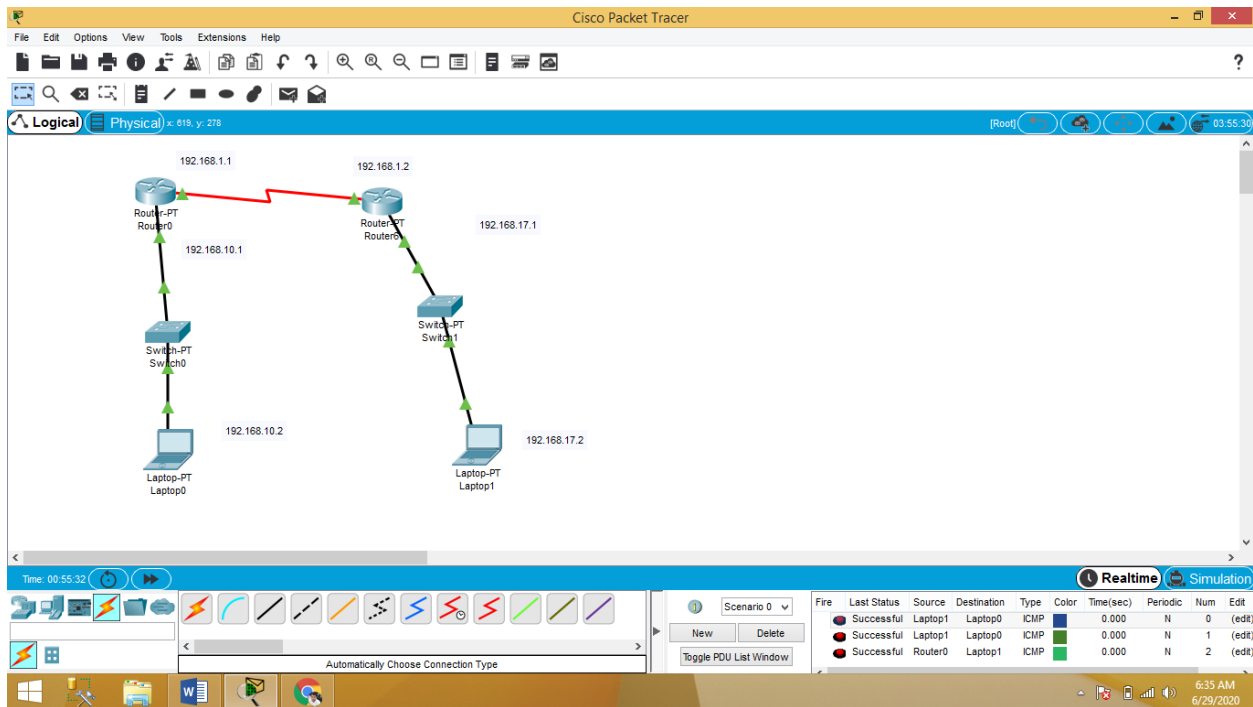
**ID: 14756**

**Department: BS(cs) 4<sup>th</sup>**

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Q1:

Diagram:



CLI of router (0):

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 379, y: 20

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```

Would you like to enter the initial configuration dialog? [yes/no]: n
Press RETURN to get started!

Router>enable
Router#
Router#configure terminal
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 379, y: 20

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed
state to up

Router(config-if)#ip route 0.0.0.0 0.0.0.0 se2/0
Router(config)#ip route 192.168.10.1 255.255.255.0 192.168.1.1
%Inconsistent address and mask
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

CLI router (6)(☹️router 2<sup>nd</sup> name is router6)

The image shows a screenshot of the Cisco Packet Tracer interface. On the left, a network diagram is visible in the 'Physical' tab, showing a topology with Router-PT Router0 (IP 192.168.1.1), Switch-PT Switch0 (IP 192.168.10.1), and Laptop-PT Laptop0. A red arrow points from Router0 to another router icon on the right. On the right, a window titled 'Router6' is open, showing the 'CLI' tab. The CLI window displays the following text:

```
IOS Command Line Interface
----- System Configuration Dialog -----
Would you like to enter the initial configuration dialog? [yes/no]: n
Press RETURN to get started!

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.17.1 255.255.255.0
Router(config-if)#ip address 192.168.17.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up
Router(config-if)#exit
Router(config)#interface Serial2/0
```

At the bottom of the CLI window, there are buttons for 'Copy' and 'Paste', and a 'Top' button.

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x: 970, y: 304

Router6

Physical Config CLI Attributes

IOS Command Line Interface

```

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#ip address 192.168.1.2 255.255.255.0
Router(config-if)#clock rate 64000
This command applies only to DCE interfaces
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed
state to up

Router(config-if)#ip route 0.0.0.0 0.0.0.0 se2/0
Router(config)#ip route 192.168.17.1 255.255.255.0 192.168.1.2
%Inconsistent address and mask
Router(config)#exit
Router#
$SYS-5-CONFIG_I: Configured from console by console

```

Ctrl+F6 to exit CLI focus

Copy Paste

IP Address of laptop 0:

Laptop0

Physical Config Desktop Programming Attributes

DHCP  Static

IP Address: 192.168.10.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.10.1

DNS Server: 0.0.0.0

IPv6 Configuration

DHCP  Auto Config  Static

IPv6 Address: /

Link Local Address: FE80::205:SEFF:FEC0:505B

IPv6 Gateway:

IPv6 DNS Server:

802.1X

Use 802.1X Security

Authentication: MD5

Username:

Password:

IP address of laptop 1:

The image shows a network diagram on the left and a configuration window for 'Laptop1' on the right. The diagram illustrates a network topology with a Router-PT (Router0) at IP 192.168.1.2, a Switch-PT (Switch1) at IP 192.168.17.1, and a Laptop-PT (Laptop1). The configuration window for Laptop1 is open to the 'Desktop' tab, showing the following settings:

- Physical:** DHCP (unselected), Static (selected)
- IP Address:** 192.168.17.2
- Subnet Mask:** 255.255.255.0
- Default Gateway:** 192.168.17.1
- DNS Server:** 0.0.0.0
- IPv6 Configuration:** DHCP (unselected), Auto Config (unselected), Static (selected)
- IPv6 Address:** [Empty field]
- Link Local Address:** FE80::209:7CFF:FE2E:DAD1
- IPv6 Gateway:** [Empty field]
- IPv6 DNS Server:** [Empty field]
- 802.1X:** Use 802.1X Security (unchecked)
- Authentication:** MDS
- Username:** [Empty field]
- Password:** [Empty field]

RESULT:

The image shows a network simulation interface with a traffic log table. The interface includes a 'Realtime' button and a 'Simulation' button. The traffic log table is as follows:

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Ec
	Successful	Laptop0	Laptop1	ICMP	Red	0.000	N	1	(€
	Successful	Laptop1	Laptop0	ICMP	Yellow	0.000	N	2	(€
	Successful	Router0	Laptop1	ICMP	Purple	0.000	N	3	(€

Q2:

Diagram:

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 492, y: 433 [Root] 06:30:00

Network diagram showing the following components and connections:

- Router0 (192.168.10.1):** Connected to Router1 (192.168.13.1), Router2 (192.168.11.2), and Router3 (192.168.2.1).
- Router1 (192.168.13.1):** Connected to Router0 and PC3 (192.168.1.4).
- Router2 (192.168.11.2):** Connected to Router0 and PC2 (192.168.1.3).
- Router3 (192.168.2.1):** Connected to Router0 and PC1 (192.168.1.2).
- Switch0 (2950T-24):** Connected to Router0 and PC1 (192.168.1.2).
- Switch1 (2950T-24):** Connected to Router0 and PC0 (192.168.1.1).

Time: 03:22:58

Realtime Simulation

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit

Automatically Choose Connection Type

New Delete

Toggle PDU List Window

3:52 AM 6/29/2020

The screenshot shows the Cisco Packet Tracer interface. On the left, a network diagram is visible with the following components and IP addresses:

- Switch0 (2950T-24): 192.168.7.1
- PC1 (PC-PT): 192.168.1.2
- Router4 (1841): 192.168.6.1
- Switch1 (2950T-24): 192.168.5.1
- PC0 (PC-PT): 192.168.1.1
- Router0 (1841): 192.168.10.1
- Router1 (1841): 192.168.9.1

The right window shows the CLI for Router0 with the following commands and output:

```

IOS Command Line Interface

Would you like to enter the initial configuration dialog? [yes/no]: n
Press RETURN to get started!

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial0/0/1
Router(config-if)#ip address 192.168.8.1 255.255.255.0
Router(config-if)#ip address 192.168.8.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/1/0
Router(config-if)#ip address 192.168.9.1 255.255.255.0
Router(config-if)#ip address 192.168.9.1 255.255.255.0
Router(config-if)#no shut
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Router(config-if)#
Router(config-if)#
    
```

The screenshot shows the Cisco Packet Tracer interface. On the left, a network diagram is visible with the following components and IP addresses:

- PC4 (PC-PT): 192.168.1.1
- Router1 (1841): 192.168.13.1
- PC2 (PC-PT): 192.168.1.2
- PC3 (PC-PT): 192.168.1.3

The right window shows the CLI for Router0 with the following commands and output:

```

IOS Command Line Interface

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Router(config-if)#
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed
state to up

Router(config-if)#exit
Router(config)#interface Serial0/1/1
Router(config-if)#ip address 192.168.11.1 255.255.255.0
Router(config-if)#ip address 192.168.11.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/1, changed state to up

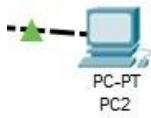
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/1, changed
state to up

Router(config-if)#exit
Router(config)#interface Serial0/1/1
Router(config-if)#
    
```





92.168.12.1



192.168.1.3

Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.168.12.1 255.255.255.0
Router(config-if)#ip address 192.168.12.1 255.255.255.0
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down
Router(config-if)#
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed
state to up

Router(config-if)#exit
Router(config)#interface Serial0/0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/1
Router(config-if)#ip address 192.168.8.1 255.255.255.0
Router(config-if)#ip address 192.168.8.1 255.255.255.0
Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to down
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top



Router0

Physical Config CLI Attributes

IOS Command Line Interface

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.168.12.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/1/0
Router(config-if)#ip address 192.168.9.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/1
Router(config-if)#ip address 192.168.8.1 255.255.255.0
Router(config-if)#
```

Ctrl+F6 to exit CLI focus

Copy

Paste

Top

192.168.1.3

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 970, y: 344

Router1

Physical Config CLI Attributes

IOS Command Line Interface

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Compiled Wed 18-Jul-07 04:52 by pt\_team

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: n

Press RETURN to get started!

```

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial0/0/0
Router(config-if)#ip address
% Incomplete command.
Router(config-if)#ip address 192.168.13.1 255.255.255.0
Router(config-if)#ip address 192.168.13.1 255.255.255.0
Router(config-if)#no shut
Router(config-if)#
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Router1

Physical Config CLI Attributes

IOS Command Line Interface

```

Router(config-if)#no shut
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.14.1 255.255.255.0
Router(config-if)#ip address 192.168.14.1 255.255.255.0
Router(config-if)#exit
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.2.2 255.255.255.0
Router(config-if)#ip address 192.168.2.2 255.255.255.0
Router(config-if)#no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

The image shows a network simulation interface. On the left, a PC icon labeled "PC-PT PC2" has the IP address "192.168.1.3". A red line connects this PC to a router configuration window titled "Router1". The router window has tabs for "Physical", "Config", "CLI", and "Attributes", with "CLI" selected. The CLI window displays the following text:

```
IOS Command Line Interface

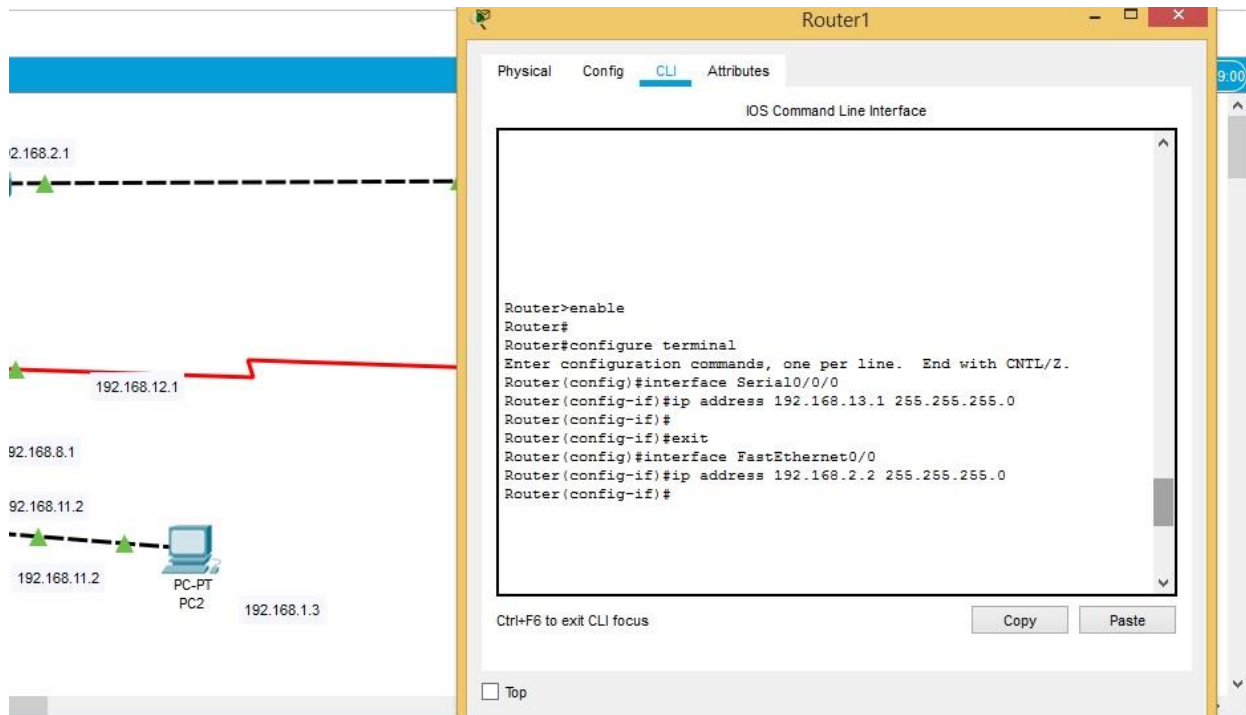
Router(config-if)#exit
Router(config)#interface Serial10/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.14.1 255.255.255.0
Router(config-if)#ip address 192.168.14.1 255.255.255.0
Router(config-if)#exit
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.2.2 255.255.255.0
Router(config-if)#ip address 192.168.2.2 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

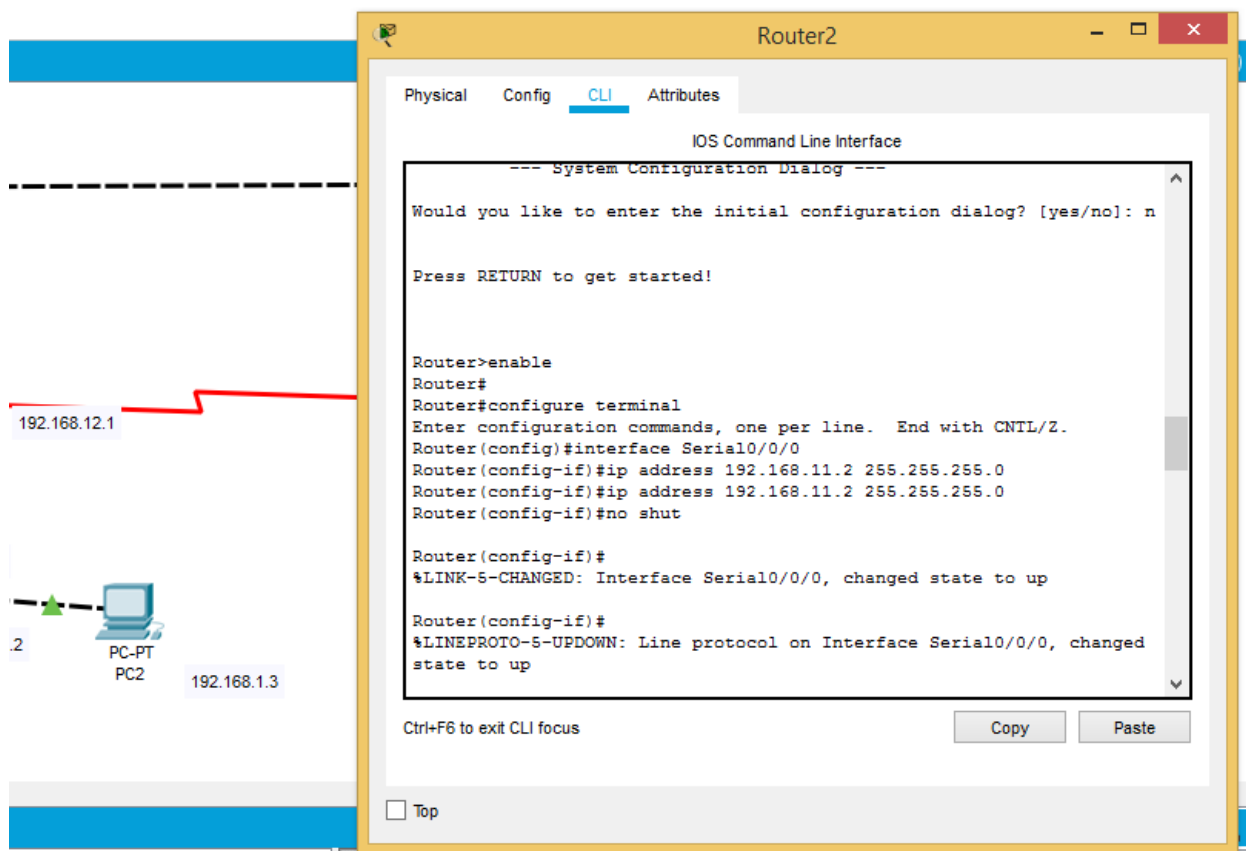
Router(config-if)#
```

At the bottom of the CLI window, there are buttons for "Copy" and "Paste", and a note "Ctrl+F6 to exit CLI focus". Below the CLI window, there is a "Top" button with a checkbox.



The image shows a network diagram on the left and a CLI window for Router1 on the right. The diagram includes a dashed line with IP 2.168.2.1, a red line with IP 192.168.12.1, and a PC-PT PC2 with IP 192.168.11.2 connected to a network with IP 192.168.1.3. The Router1 CLI window shows the following commands:

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.168.13.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.2.2 255.255.255.0
Router(config-if)#
```



The image shows a network diagram on the left and a CLI window for Router2 on the right. The diagram includes a dashed line with IP 192.168.12.1 and a PC-PT PC2 with IP 192.168.11.2 connected to a network with IP 192.168.1.3. The Router2 CLI window shows the following commands and output:

```
--- System Configuration Dialog ---
Would you like to enter the initial configuration dialog? [yes/no]: n
Press RETURN to get started!

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.168.11.2 255.255.255.0
Router(config-if)#ip address 192.168.11.2 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed
state to up
```

Router2

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.168.11.2 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.168.11.2 255.255.255.0
Router(config-if)#

```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Router3

Physical Config **CLI** Attributes

IOS Command Line Interface

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: n

Press RETURN to get started!

```

Router3>enable
Router3#
Router3#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router3(config)#interface Serial0/0/0
Router3(config-if)#ip address 192.168.10.1 255.255.255.0
Router3(config-if)#ip address 192.168.10.1 255.255.255.0
Router3(config-if)#no shut

```

%LINK-6-CHANGED: Interface Serial0/0/0, changed state to down  
Router3(config-if)#  
%LINK-6-CHANGED: Interface Serial0/0/0, changed state to up  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Time: 03:26:45

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

File Last Status Source Destination Type Color Time(sec) Periodic Num Edit

3:55 AM 6/29/2020

The image shows a network simulation environment. On the left, a network diagram features a red line representing a connection to a device with IP address 192.168.12.1. Below this, a PC-PT PC2 is connected to a network with IP address 192.168.1.3. A dashed line indicates a connection to a device with IP address 11.2. A blue bar is visible at the top of the simulation window.

On the right, a window titled "Router3" is open, displaying the "CLI" (Command Line Interface) tab. The text in the CLI window is as follows:

```
Router(config-if)#exit
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#no shut

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

Router(config-if)#

Router con0 is now available
```

Below the CLI window, there are "Copy" and "Paste" buttons, and a "Top" button. A status bar at the bottom of the CLI window reads "Ctrl+F6 to exit CLI focus".

Router3

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial10/0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#

```

Router con0 is now available

Ctrl+F6 to exit CLI focus

Copy Paste

Top

192.168.1.3

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Router4

Physical Config **CLI** Attributes

IOS Command Line Interface

```

AAMir>en
AAMir#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
AAMir(config)#interface f
# Incomplete command.
AAMir(config)#interface fastEthernet 0/1
AAMir(config-if)#ip add 192.168.5.1 255.255.255.0
AAMir(config-if)#no shut

AAMir(config-if)#
%LINK-S-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-S-UPDOWN: Line protocol on Interface FastEthernet0/1,
changed state to up

AAMir(config-if)#ip exit
AAMir(config)#interface fastEthernet 0/0
AAMir(config-if)#ip add 192.168.5.1 255.255.255.0
# 192.168.5.0 overlaps with FastEthernet0/1
AAMir(config-if)#no shut
# 192.168.5.0 overlaps with FastEthernet0/1
FastEthernet0/0: incorrect IP address assignment
AAMir(config-if)#ip add 192.168.6.1 255.255.255.0

```

Ctrl+F6 to exit CLI focus

Copy Paste

Top

Time: 03:28:04

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

3:57 AM 6/29/2020



Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Router4

Physical Config CLI Attributes

IOS Command Line Interface

```

AAmir(config-if)#ip add 192.168.6.1 255.255.255.0
AAmir(config-if)#no shut

AAmir(config-if)#
%LINK-S-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-S-UPDOWN: Line protocol on Interface FastEthernet0/0,
changed state to up

AAmir(config-if)#
AAmir(config-if)#exit
AAmir(config)#interface Serial0/0/0
AAmir(config-if)#ip address 192.168.7.1 255.255.255.0
AAmir(config-if)#ip address 192.168.7.1 255.255.255.0
AAmir(config-if)#no shut

AAmir(config-if)#
%LINK-S-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-S-UPDOWN: Line protocol on Interface Serial0/0/0, changed
state to up

AAmir(config-if)#
%LINK-S-CHANGED: Interface Serial0/0/0, changed state to up
%LINEPROTO-S-UPDOWN: Line protocol on Interface Serial0/0/0, changed
state to up

```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 03:28:11

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

3:57 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Router4

Physical Config CLI Attributes

IOS Command Line Interface

```

AAmir#enable
AAmir#
AAmir#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
AAmir(config)#interface FastEthernet0/0
AAmir(config-if)#ip address 192.168.6.1 255.255.255.0
AAmir(config-if)#ip address 192.168.6.1 255.255.255.0
AAmir(config-if)#
AAmir(config-if)#exit
AAmir(config)#interface FastEthernet0/1
AAmir(config-if)#ip address 192.168.5.1 255.255.255.0
AAmir(config-if)#ip address 192.168.5.1 255.255.255.0
AAmir(config-if)#
AAmir(config-if)#exit
AAmir(config)#interface Serial0/0/0
AAmir(config-if)#ip address 192.168.7.1 255.255.255.0
AAmir(config-if)#ip address 192.168.7.1 255.255.255.0
AAmir(config-if)#

```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 03:28:17

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

3:57 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 971, y 131

Router4

Physical Config CLI Attributes

IOS Command Line Interface

```

AAMir>enable
AAMir#
AAMir#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
AAMir (config)#
AAMir (config)#router rip
AAMir (config-router)#

AAMir con0 is now available
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 03:28:21

Realtime Simulation

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

3:57 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 971, y 131

Router4

Physical Config CLI Attributes

IOS Command Line Interface

```

AAMir>en
AAMir#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
AAMir (config)#ip route 192.168.7.1 255.255.255.0 192.168.5.1
!Inconsistent address and mask
AAMir (config)#
AAMir (config)#interface Serial0/0/0
AAMir (config-if)#

AAMir con0 is now available
  
```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 03:28:26

Realtime Simulation

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

3:57 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 377, y 14

Switch0

IOS Command Line Interface

```

GigabitEthernet0/2 unassigned YES manual down
down
Vlan1 unassigned YES manual administratively
down down
Switch#
Switch#
Switch#
Switch#
Switch#
Switch#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface vlan 1
Switch(config-if)# ip address 192.168.12.1 255.255.255.0
Switch(config-if)# no shutdown

Switch(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state
to up
Switch(config-if)#2
Switch#
!SYS-5-CONFIG I: Configured from console by console

Ctrl+F6 to exit CLI focus
  
```

Time: 03:29:59

Realtime Simulation

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

3:58 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 377, y 14

Switch0

IOS Command Line Interface

```

Switch#show ip interface brief
Interface IP-Address OK? Method Status
Protocol
FastEthernet0/1 unassigned YES manual down
down
FastEthernet0/2 unassigned YES manual up
up
FastEthernet0/3 unassigned YES manual down
down
FastEthernet0/4 unassigned YES manual down
down
FastEthernet0/5 unassigned YES manual down
down
FastEthernet0/6 unassigned YES manual down
down
FastEthernet0/7 unassigned YES manual down
down
FastEthernet0/8 unassigned YES manual down
down
FastEthernet0/9 unassigned YES manual down
down
FastEthernet0/10 unassigned YES manual down
down
FastEthernet0/11 unassigned YES manual down
down
  
```

Time: 03:29:03

Realtime Simulation

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

3:58 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 377, y: 19

Switch0

Physical Config CLI Attributes

IOS Command Line Interface

```

down
FastEthernet0/19      unassigned   YES manual down
down
FastEthernet0/20      unassigned   YES manual down
down
FastEthernet0/21      unassigned   YES manual down
down
FastEthernet0/22      unassigned   YES manual down
down
FastEthernet0/23      unassigned   YES manual down
down
FastEthernet0/24      unassigned   YES manual down
GigabitEthernet0/1   unassigned   YES manual down
GigabitEthernet0/2   unassigned   YES manual down
down
Vlan1                 192.168.12.1 YES manual up
up
Switch#
Switch#
Switch#

```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 03:29:08

Realtime Simulation

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

3:58 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 344, y: 195

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```

%LINEPROTO-S-UPDOWN: Line protocol on Interface FastEthernet0/2,
changed state to up

Switch#en
Switch#conf
Translating "conf"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer
address

Switch#conf
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#show ip interface brief

% Invalid input detected at '^' marker.

Switch(config)#exit
Switch#
%SYS-S-CONFIG_I: Configured from console by console

Switch#show ip interface brief
Interface      IP-Address      OK? Method Status
Protocol


```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 03:29:38

Realtime Simulation

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

3:58 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 344, y 195

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```

Switch#show ip interface brief
Interface      IP-Address      OK? Method Status
FastEthernet0/1 unassigned     YES manual down
FastEthernet0/2 unassigned     YES manual up
FastEthernet0/3 unassigned     YES manual down
FastEthernet0/4 unassigned     YES manual down
FastEthernet0/5 unassigned     YES manual down
FastEthernet0/6 unassigned     YES manual down
FastEthernet0/7 unassigned     YES manual down
FastEthernet0/8 unassigned     YES manual down
FastEthernet0/9 unassigned     YES manual down
FastEthernet0/10 unassigned    YES manual down
FastEthernet0/11 unassigned    YES manual down

```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 03:29:41

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

3:58 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 344, y 195

Switch1

Physical Config CLI Attributes

IOS Command Line Interface

```

down
FastEthernet0/24 unassigned YES manual down
down
GigabitEthernet0/1 unassigned YES manual down
down
GigabitEthernet0/2 unassigned YES manual down
down
Vlan1 unassigned YES manual administratively
down down
Switch#
Switch#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#interface vlan 1
Switch(config-if)#ip address 192.168.13.1 255.255.255.0
Switch(config-if)#no shutdown

Switch(config-if)#
%LINK-3-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

Switch(config-if)#exit
Switch(config)#exit

```

Ctrl+F6 to exit CLI focus

Copy Paste

Time: 03:29:49

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

3:59 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 344, y: 195

Switch1

Physical Config CLI Attributes 0:05:00

IOS Command Line Interface

```
Switch#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)# interface vlan 1
Switch(config-if)# ip address 192.168.13.1 255.255.255.0
Switch(config-if)# no shutdown

Switch(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

Switch(config-if)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
```

Ctrl+F6 to exit CLI focus

Copy Paste

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
New									
Delete									

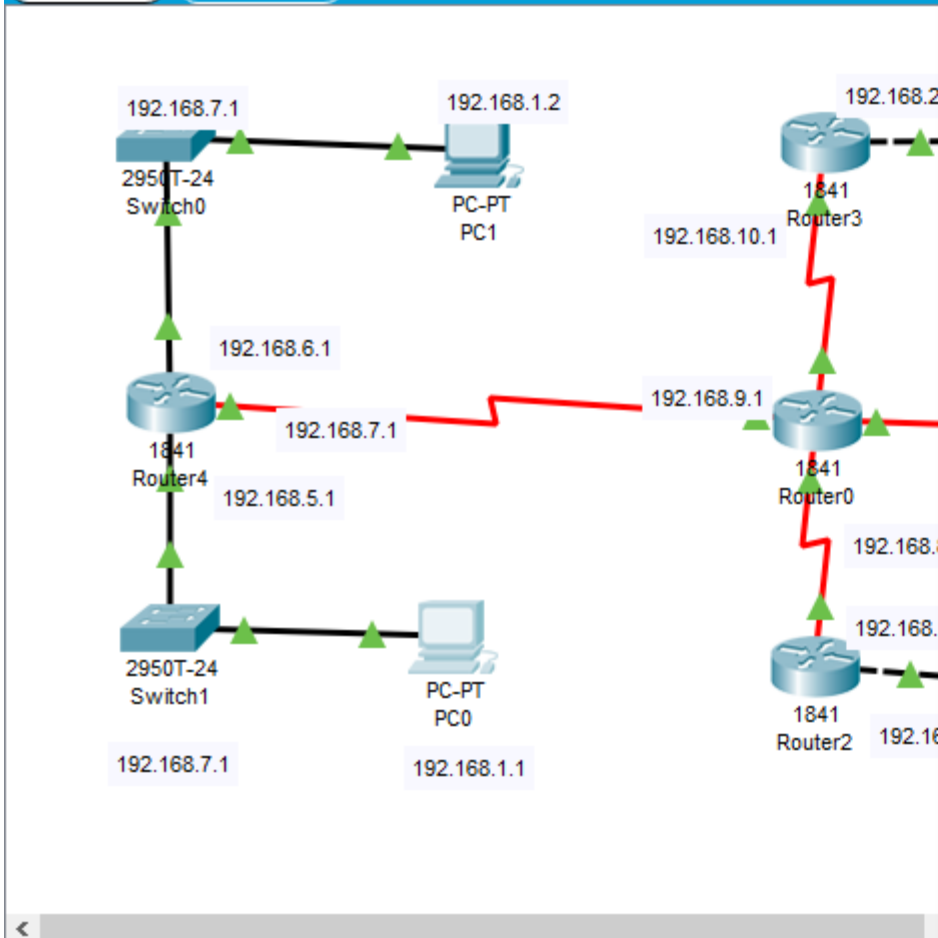
Toggle PDU List Window

Time: 03:29:59

3:59 AM 6/29/2020



Logical Physical x: 242, y: 281



Physical Config Desktop Program

DHCP

IP Address

Subnet Mask

Default Gateway

DNS Server

IPv6 Configuration

DHCP

IPv6 Address

Link Local Address

IPv6 Gateway

IPv6 DNS Server

802.1X

Use 802.1X Security

Authentication MD5

Username

Password

Top

Time: 03:30:23



Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 242, y: 281

PC0 Configuration:

- Physical: DHCP ( ), Static (x)
- IP Address: 192.168.1.1
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.1.2
- DNS Server: 0.0.0.0
- IPv6 Configuration: DHCP ( ), Auto Config ( ), Static (x)
- IPv6 Address:
- Link Local Address: FE80::260:5CFF:FE18:BD5
- IPv6 Gateway:
- IPv6 DNS Server:
- 802.1X: Use 802.1X Security ( )
- Authentication: MD5
- Username:
- Password:

Time: 03:30:23

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

3:59 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x 246, y: 68

PC1 Configuration:

- Physical: DHCP ( ), Static (x)
- IP Address: 192.168.1.2
- Subnet Mask: 255.255.255.0
- Default Gateway: 192.168.1.3
- DNS Server: 0.0.0.0
- IPv6 Configuration: DHCP ( ), Auto Config ( ), Static (x)
- IPv6 Address:
- Link Local Address: FE80::2D0:97FF:FE2B:BE6D
- IPv6 Gateway:
- IPv6 DNS Server:
- 802.1X: Use 802.1X Security ( )
- Authentication: MD5
- Username:
- Password:

Time: 03:30:33

Scenario 0

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit

New Delete

Toggle PDU List Window

Automatically Choose Connection Type

Realtime Simulation

3:59 AM 6/29/2020



Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 588, y: 333

PC2

Physical Config Desktop Programming Attributes

DHCP  Static

IP Address: 192.168.1.3  
 Subnet Mask: 255.255.255.0  
 Default Gateway: 192.168.1.4  
 DNS Server: 0.0.0.0

IPv6 Configuration

DHCP  Auto Config  Static

IPv6 Address: /  
 Link Local Address: FE80::2D0:BCFF:FEAB:7545  
 IPv6 Gateway:  
 IPv6 DNS Server:

802.1X

Use 802.1X Security

Authentication: MDS  
 Username:  
 Password:

Top

Time: 03:30:47

Realtime Simulation

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
New	Delete								

Automatically Choose Connection Type

4:00 AM 6/29/2020

Cisco Packet Tracer - C:\Users\MUHAMMAD AAMIR\Cisco Packet Tracer 7.2\saves\Q2 lab.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 893, y: 70

PC4

Physical Config Desktop Programming Attributes

DHCP  Static

IP Address: 192.168.1.5  
 Subnet Mask: 255.255.255.0  
 Default Gateway: 192.168.1.6  
 DNS Server: 0.0.0.0

IPv6 Configuration

DHCP  Auto Config  Static

IPv6 Address: /  
 Link Local Address: FE80::240:BFF:FE53:5344  
 IPv6 Gateway:  
 IPv6 DNS Server:

802.1X

Use 802.1X Security

Authentication: MDS  
 Username:  
 Password:

Top

Time: 03:31:15

Realtime Simulation

Scenario 0

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
New	Delete								

Automatically Choose Connection Type

4:00 AM 6/29/2020