

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster

Router0

Physical Config CLI Viewport

IOS Command Line Interface

```
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line. End with
CNTL/Z.
Router(config)#interface fastethernet 0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
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 serial 0/0/0
Router(config-if)#ip address 192.168.20.1 255.255.255.0
Router(config-if)#clock rate 128000
Router(config-if)#no shutdown
```

Copy Paste

Time: 00:08:04 Power Cycle Devices Fast Forward Time

Connections

Copper Straight-Through

New Delete

Toggle PDU List Window

Realtime

Time(sec) Periodic

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster

Router0

Physical Config CLI

IOS Command Line Interface

to up

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

Router(config-if)#exit
Router(config)#interface serial 0/0/0
Router(config-if)#ip address 192.168.20.1 255.255.255.0
Router(config-if)#clock rate 128000
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to
down
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#
```

Copy Paste

Time: 00:08:23 Power Cycle Devices Fast Forward Time

Connections

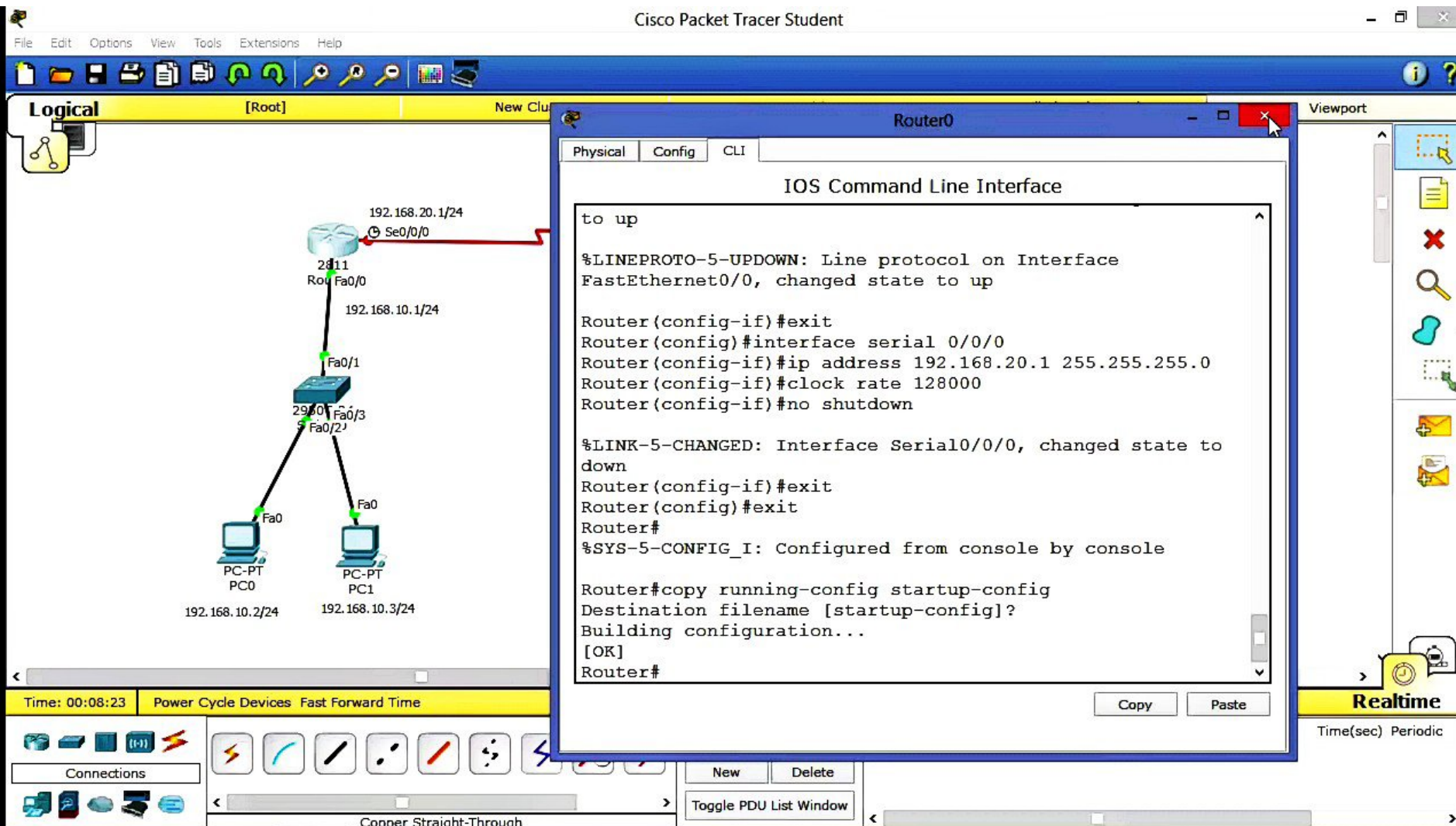
Copper Straight-Through

New Delete

Toggle PDU List Window

Realtime

Time(sec) Periodic



```
graph TD
    R1[Router0] ---|Fa0/0| PC0[PC-PT PC0]
    R1 ---|Fa0/1| PC1[PC-PT PC1]
    R1 ---|Se0/0/0| PC2[PC-PT PC2]
```

192.168.20.1/24
Se0/0/0

2411
Router0

192.168.10.1/24
Fa0/1

2910
Fa0/3
Fa0/2

Fa0

PC-PT
PC0

192.168.10.2/24

PC-PT
PC1

192.168.10.3/24

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Router1

Physical Config CLI

IOS Command Line Interface

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.
End with CNTL/Z.
Router(config)#
Router(config)#interface fastethernet 0/0
Router(config-if)#ip address 192.168.30.1
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 serial 0/0/0
Router(config-if)#ip address 192.168.20.2
255.255.255.0
Router(config-if)#
```

Copy Paste

Connections

Copper Straight-Through

Move Object Set Tiled Background Viewport

```
graph TD
    Cloud((192.168.20.2/24, Se0/0/0)) --- Router1[Router1]
    Router1 --- S1((2950))
    S1 --- PC2[PC-PT PC2]
    S1 --- PC3[PC-PT PC3]
```

192.168.20.2/24, Se0/0/0

2950

192.168.30.1/24

192.168.30.2/24

192.168.30.3/24

PC-PT PC2

PC-PT PC3

Realtime

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic
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Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Router1

Physical Config CLI

IOS Command Line Interface

```
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0,
changed state to up
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by
console
Router#
Router#copy runnin
%LINEPROTO-5-UPDOWN: Line protocol on
Interface Serial0/0/0, changed state to up
g-con
Router#copy running-config st
Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#
```

Copy Paste

Connections

Copper Straight-Through

Move Object Set Tiled Background Viewport

192.168.20.2/24, Se0/0/0

28 Fa0/0 Router1

192.168.30.1/24

Fa0/1

29 Fa0/3

S Fa0/2

Fa0

PC-PT PC2

192.168.30.2/24

Fa0

PC-PT PC3

192.168.30.3/24

Realtime

Scenario 0

New Delete

Toggle PDU List Window

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

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Router1

Physical Config CLI

IOS Command Line Interface

```
[OK]
Router#configure terminal
Enter configuration commands, one per line. End with
CNTL/Z.
Router(config)#
Router(config)#router eigrp 10
Router(config-router)#network 192.168.20.0 255.255.255.0
Router(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 192.168.20.1
(Serial0/0/0) is up: new adjacency

Router(config-router)#network 192.168.30.0 255.255.255.0
Router(config-router)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console

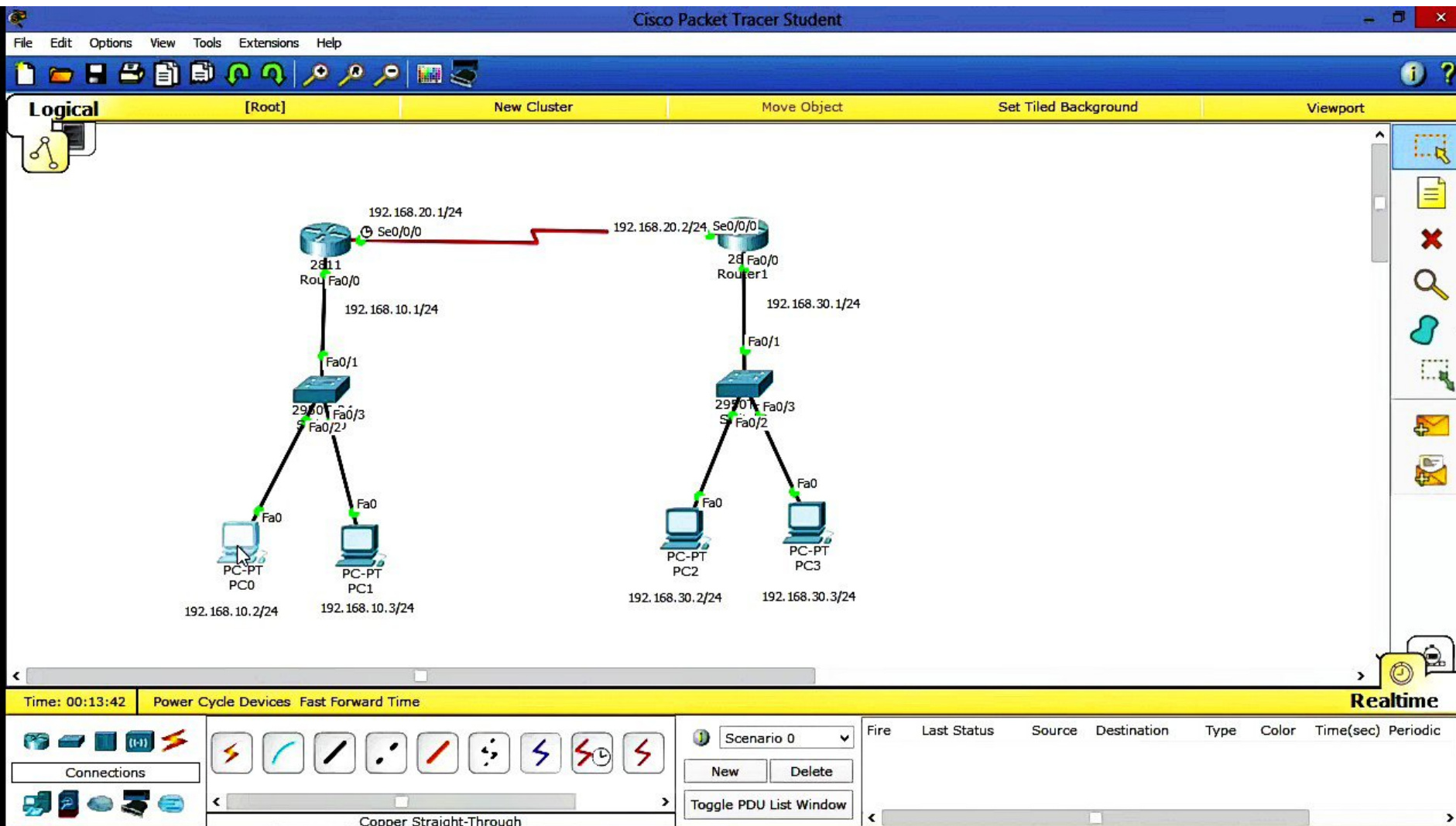
Router#copy running-c
Router#copy running-config st
Router#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Router#
```

Copy Paste

Time: 00:13:39 Power Cycle Devices Fast Forward Time

Connections

Copper Straight-Through



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster

2811
Rou Fa0/0
192.168.20.1/24
Se0/0/0
192.168.20.2
192.168.10.1/24
Fa0/1
2960
Fa0/3
Fa0/2
Fa0
PC-PT
PC0
192.168.10.2/24
PC-PT
PC1
192.168.10.3/24

Time: 00:14:12 Power Cycle Devices Fast Forward Time

Connections

Copper Straight-Through

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.10.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.1

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address

Link Local Address FE80::260:5CFF:FE08:8C77

IPv6 Gateway

IPv6 DNS Server

New Delete

Toggle PDU List Window

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.10.3

Subnet Mask 255.255.255.0

Default Gateway 192.168.10.1

DNS Server

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:BCFF:FE19:6EC4

IPv6 Gateway

IPv6 DNS Server

Time: 00:14:31 Power Cycle Devices Fast Forward Time

Connections

Copper Straight-Through

View Delete Toggle PDU List Window

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

PC2

Physical Config Desktop Software/Services

Physical Device View

Zoom In Original Size Zoom Out

MODULES

- WMP300N
- PT-HOST-NM-1AM
- PT-HOST-NM-1CE
- PT-HOST-NM-1CFE
- PT-HOST-NM-1CGE
- PT-HOST-NM-1FFE
- PT-HOST-NM-1FGE
- PT-HOST-NM-1W
- PT-HOST-NM-1W-A
- PT-HOST-NM-3G/4G
- PT-HEADPHONE
- PT-MICROPHONE
- PT-CAMERA
- PT-USB-HARD-DRIVE

Customize Icon in Physical View

Customize Icon in Logical View

The Linksys-WMP300N module provides one 2.4GHz Wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access.

Time: 00:14:33 Power Cycle Devices Fast Forward

Connections

Copper Straight-Through

New Delete

Toggle PDU List Window

Realtime

Destination Type Color Time(sec) Periodic

The screenshot displays the Cisco Packet Tracer Student application. The main workspace shows a network topology in the 'Logical' view. A central router (2811) is connected to a switch (2960) via its Fa0/0 and Fa0/1 ports. The switch is connected to two PCs (PC0 and PC1) via its Fa0/3 and Fa0/24 ports. The PCs are labeled with IP addresses 192.168.10.2/24 and 192.168.10.3/24. A 'Physical Device View' window is open for PC2, showing a list of modules including WMP300N, PT-HOST-NM-1AM, PT-HOST-NM-1CE, PT-HOST-NM-1CFE, PT-HOST-NM-1CGE, PT-HOST-NM-1FFE, PT-HOST-NM-1FGE, PT-HOST-NM-1W, PT-HOST-NM-1W-A, PT-HOST-NM-3G/4G, PT-HEADPHONE, PT-MICROPHONE, PT-CAMERA, and PT-USB-HARD-DRIVE. The window also features zoom controls (Zoom In, Original Size, Zoom Out) and buttons to customize icons in Physical and Logical views. A descriptive text box states: 'The Linksys-WMP300N module provides one 2.4GHz Wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access.' The bottom status bar shows the time as 00:14:33 and includes buttons for Power Cycle Devices and Fast Forward. The bottom right corner displays the 'Realtime' tab and a table with columns for Destination, Type, Color, Time(sec), and Periodic.

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Physical Config Desktop Software/Services

106

run

http:

IP Configuration

Dial-up

Terminal

Command Prompt

Web Browser

PC Wireless

VPN

Traffic Generator

MIB Browser

Cisco IP Communicator

Email

PPPoE Dialer

Text Editor

Firewall

IPv6 Firewall

2811
Rou Fa0/0

192.168.1.1

Fa0/1

2950
Fa0/30 Fa0/27

Fa0

PC-PT
PC0

192.168.10.2/24

Fa0

PC-P
PC1

192.168.1.3

Time: 00:14:34 Power Cycle Devices Fast Forward

Connections

Copper Straight-Through

Toggle PDU List Window

Realtime

Destination Type Color Time(sec) Periodic



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

Physical Config Desktop Software/Services

106

run

http:

IP Configuration

Dial-up

Terminal

Command Prompt

Web Browser

PC Wireless

VPN

Traffic Generator

MIB Browser

Cisco IP Communicator

Email

PPPoE Dialer

Text Editor

Firewall

IPv6 Firewall

2811
Rou Fa0/0

192.168.1.1

Fa0/1

2950
Fa0/30 Fa0/31 Fa0/24

Fa0

PC-PT
PC0

192.168.10.2/24

Fa0

PC-P
PC1

192.168.10.3/24

Time: 00:14:35 Power Cycle Devices Fast Forward

Connections

Copper Straight-Through

View Delete

Toggle PDU List Window

Realtime

Destination Type Color Time(sec) Periodic



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

PC2

Physical Config Desktop Software/Services

IP Configuration

IP Configuration

☐ DHCP ☒ Static

IP Address: 192.168.30.2

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.30.1

DNS Server:

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address: /

Link Local Address: FE80::260:47FF:FE92:2A61

IPv6 Gateway:

IPv6 DNS Server:

Object Set Tiled Background Viewport

8.30.1/24

8.30.3/24

Realtime

Scenario 0

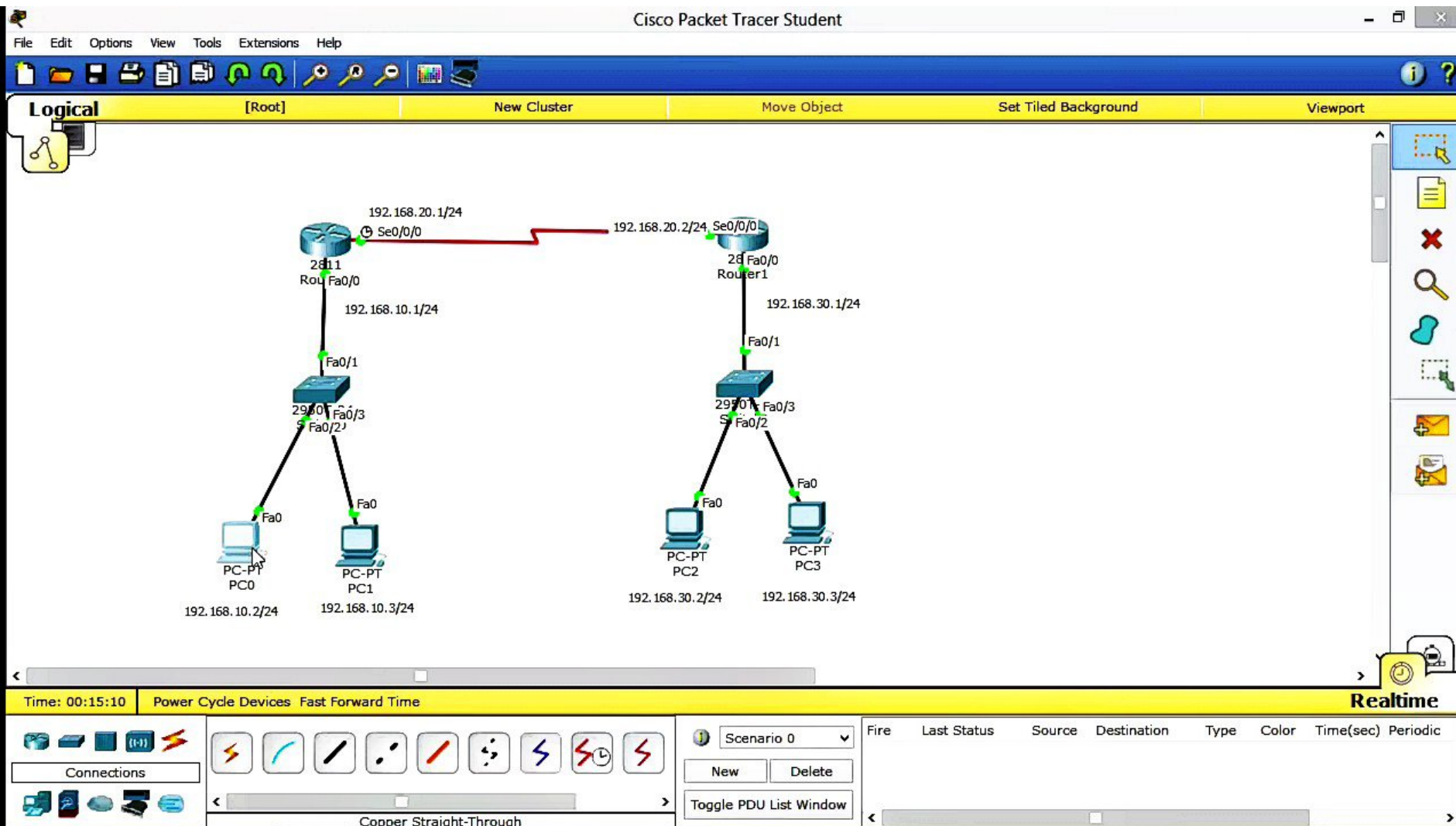
New Delete

Toggle PDU List Window

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

Connections

Copper Straight-Through



Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

PC0

Physical Config Desktop Software/Services

106

run

http:

IP Configuration

Dial-up

Terminal

Command Prompt

Web Browser

PC Wireless

VPN

Traffic Generator

MIB Browser

Cisco IP Communicator

Email

PPPoE Dialer

Text Editor

Firewall

IPv6 Firewall

Time: 00:15:11 Power Cycle Devices Fast Forward

Connections

Copper Straight-Through

Toggle PDU List Window

Realtime

Destination Type Color Time(sec) Periodic

The screenshot displays the Cisco Packet Tracer Student application. The main workspace shows a network diagram with a central router (2811) connected to two PCs (PC0 and PC1) via a switch (2950). The router's Fa0/0 interface is connected to the switch's Fa0/1 interface. The switch's Fa0/30 and Fa0/21 interfaces are connected to PC0 and PC1, respectively. The IP address 192.168.10.2/24 is assigned to PC0. A 'PC0' configuration window is open, showing the 'Software/Services' tab. This window contains a grid of icons for various services: IP Configuration, Dial-up, Terminal, Command Prompt, Web Browser, PC Wireless, VPN, Traffic Generator, MIB Browser, Cisco IP Communicator, Email, PPPoE Dialer, Text Editor, Firewall, and IPv6 Firewall. The 'Command Prompt' icon is highlighted by the mouse cursor. The bottom status bar shows the time as 00:15:11 and includes buttons for 'Power Cycle Devices' and 'Fast Forward'. A 'Connections' panel is visible on the left, and a 'Realtime' panel is on the right. A small video inset in the bottom right corner shows a person's face.

Cisco Packet Tracer Student

File Edit Options View Tools Extensions Help

Logi Physical Config Desktop Software/Services

Set Tiled Background Viewport

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.30.2

Pinging 192.168.30.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.30.2: bytes=32 time=7ms TTL=126
Reply from 192.168.30.2: bytes=32 time=7ms TTL=126
Reply from 192.168.30.2: bytes=32 time=8ms TTL=126

Ping statistics for 192.168.30.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25%
    loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 8ms, Average = 7ms

PC>
```

Time: 0

Connections

Copper Straight-Through

Scenario 0

New Delete

Toggle PDU List Window

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

