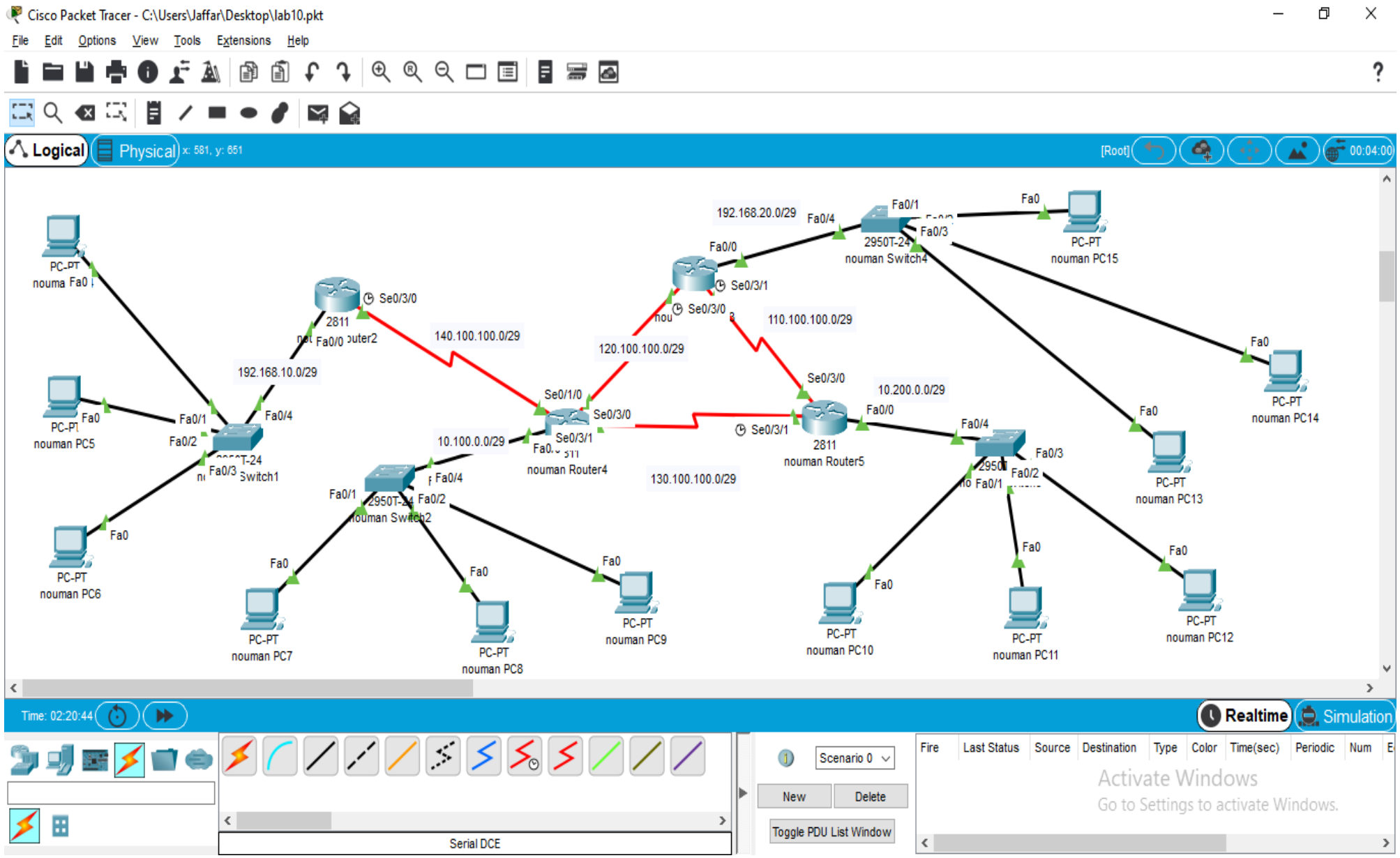
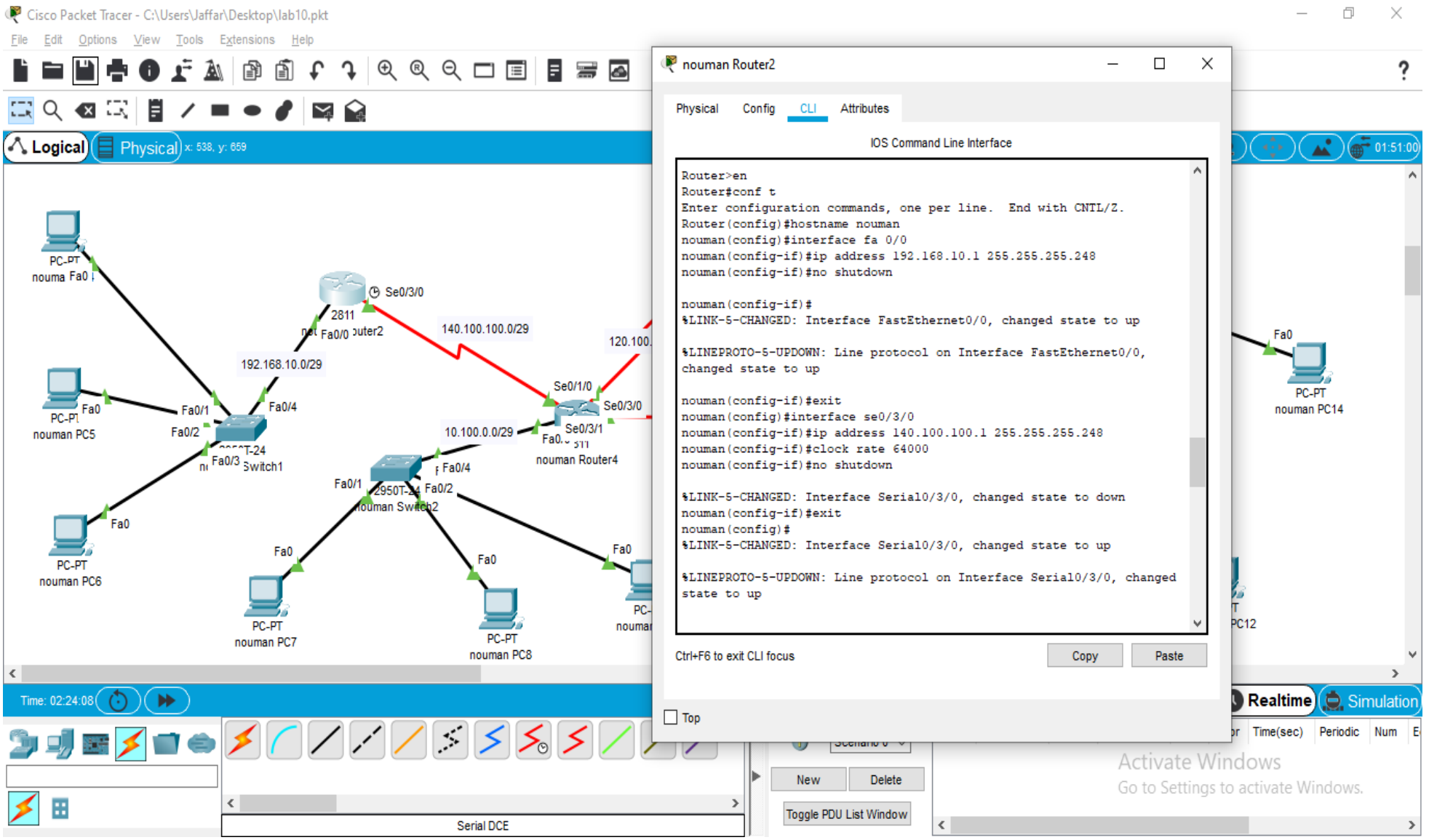
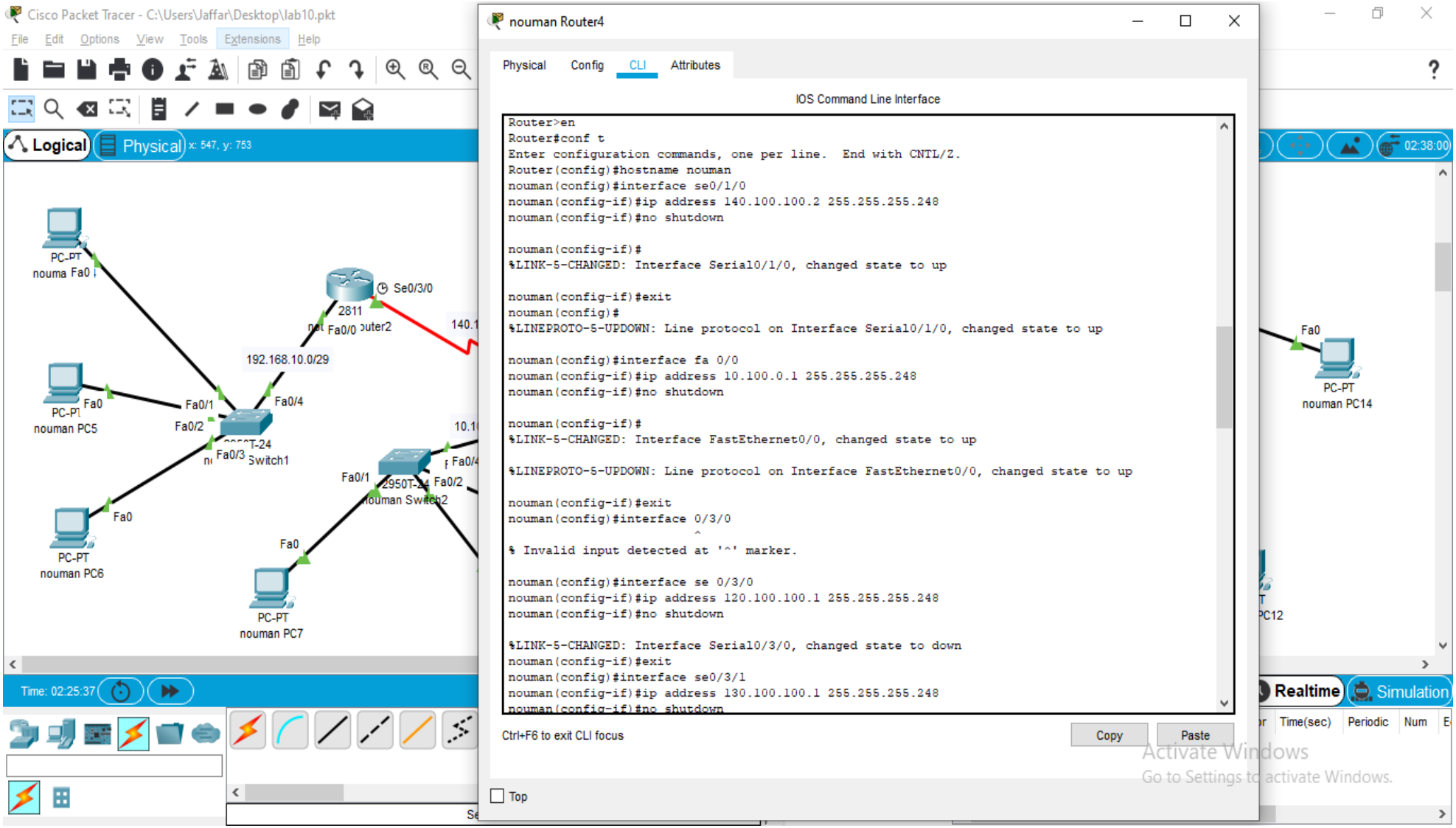
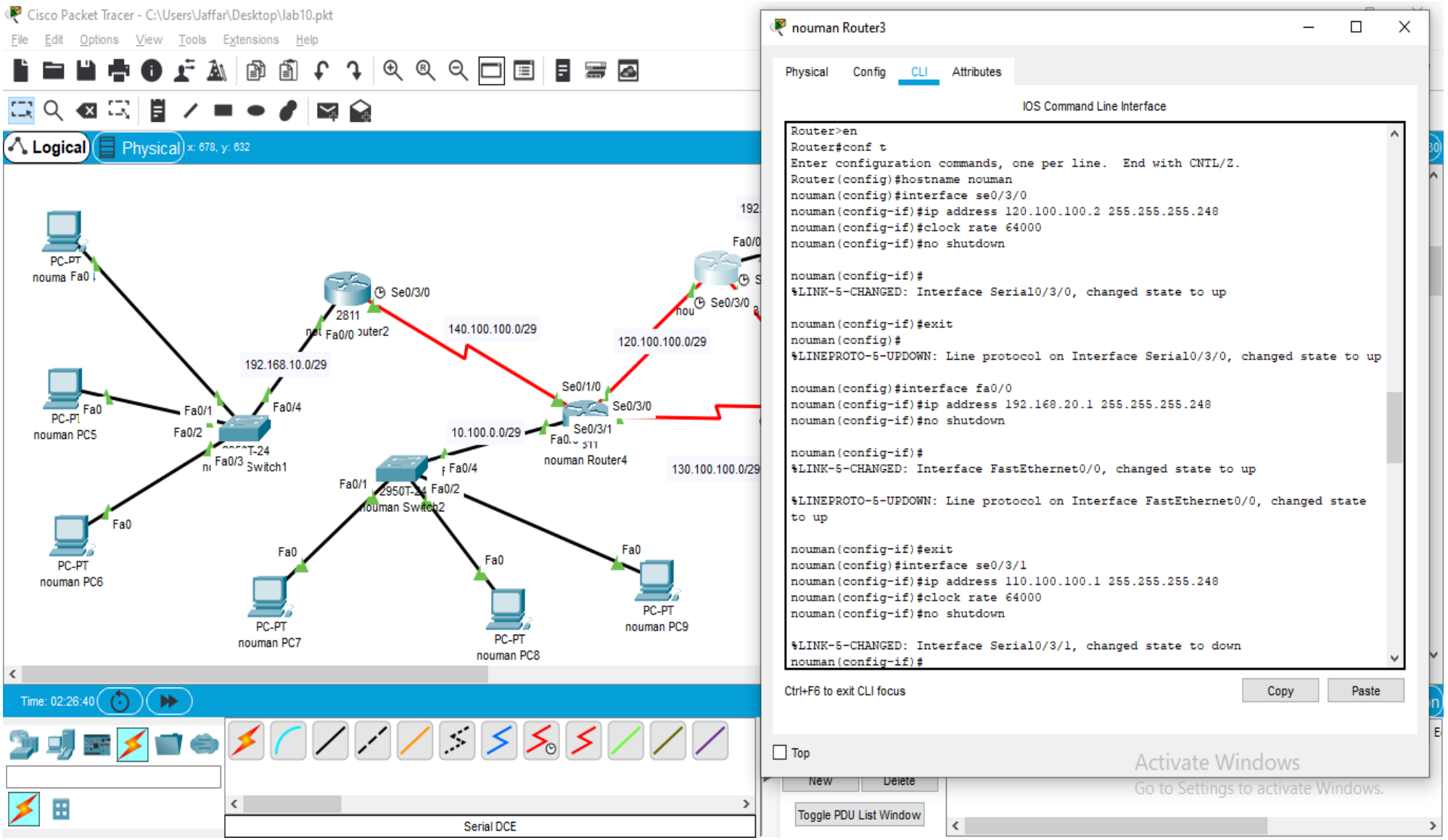
LAB # 09

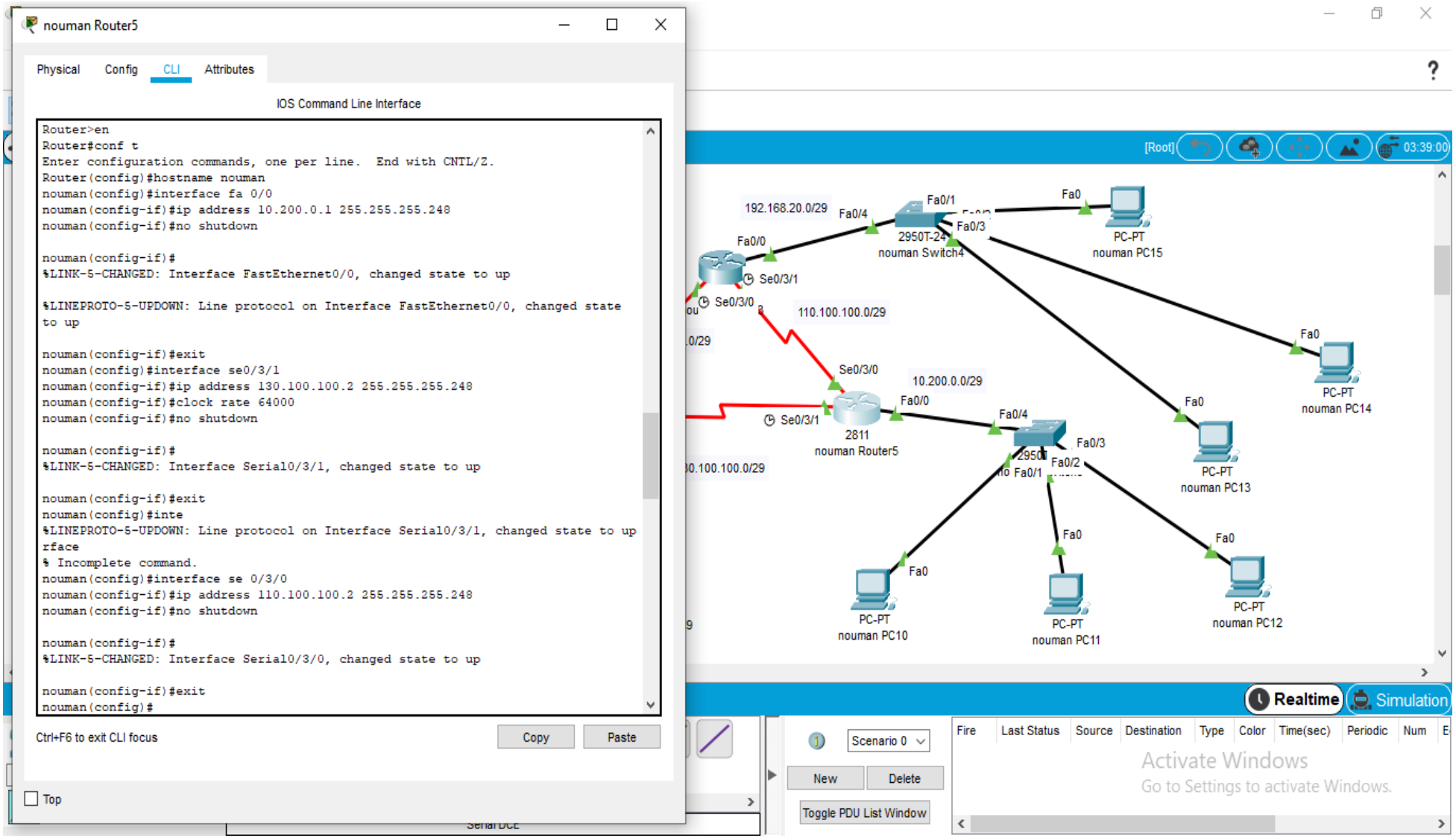
Name : Nouman Ali ***SID : 9964***

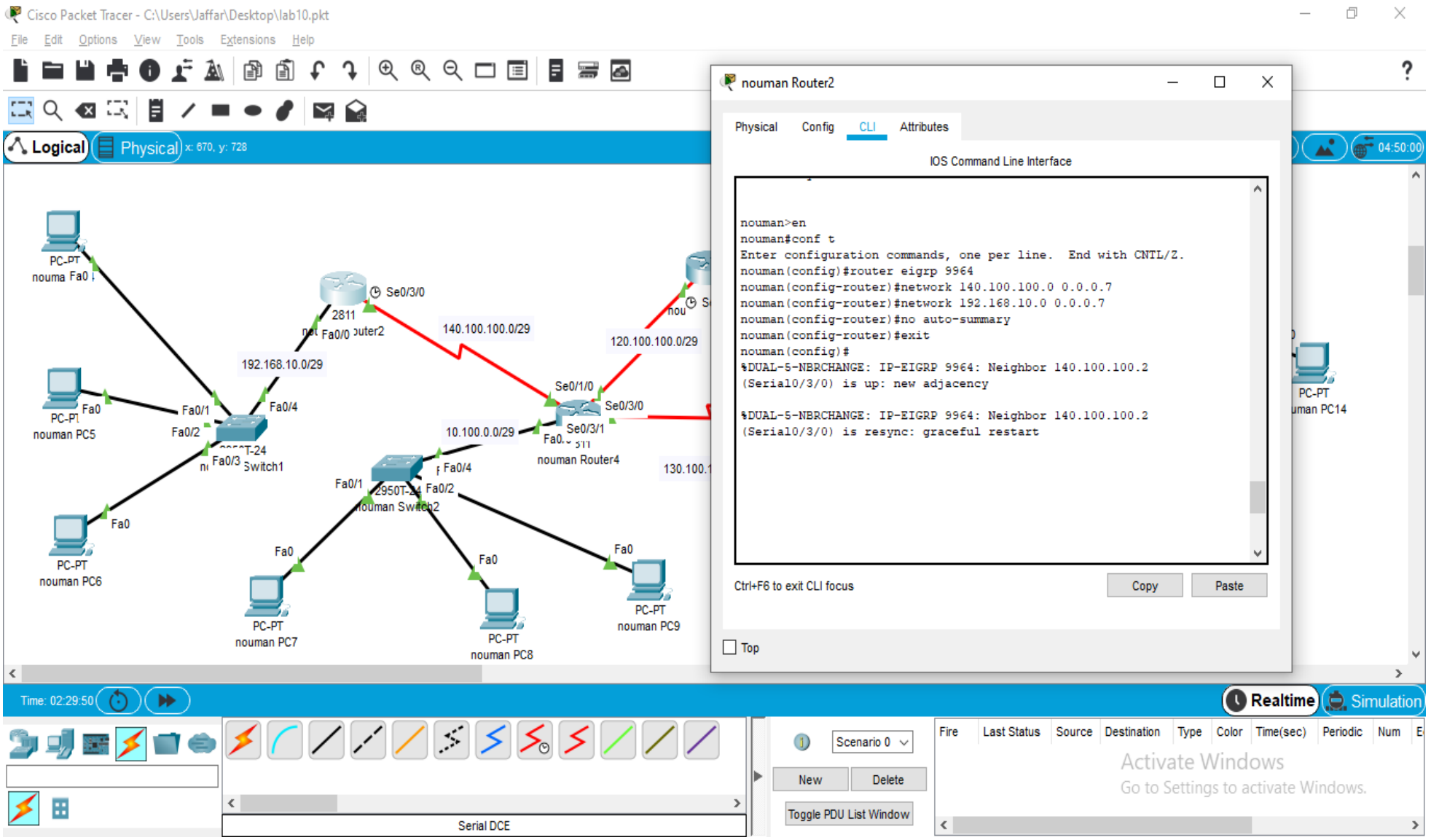

Cisco Packet Tracer - C:\Users\Jaffar\Desktop\lab10.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
x: 581, y: 651
[Root]
00:04:00
192.168.20.0/29
Fa0/4
Fa0/1
Fa0/3
2950T-24
nouman Switch4
Fa0
PC-PT
nouman PC15
Fa0/0
Se0/3/1
Se0/3/0
110.100.100.0/29
Fa0
PC-PT
nouman PC14
120.100.100.0/29
140.100.100.0/29
2811
Fa0/0
Se0/3/0
192.168.10.0/29
Se0/1/0
Se0/3/0
Se0/3/1
10.200.0.0/29
Fa0/0
Fa0
PC-PT
nouman PC5
Fa0/1
Fa0/2
Fa0/4
Fa0/3
Switch1
10.100.0.0/29
Se0/3/1
nouman Router4
2811
nouman Router5
Fa0/4
Fa0/3
Fa0/2
Fa0/1
Fa0
PC-PT
nouman PC13
Fa0
PC-PT
nouman PC6
Fa0/1
Fa0/4
Fa0/2
nouman Switch2
130.100.100.0/29
Fa0
PC-PT
nouman PC7
Fa0
PC-PT
nouman PC8
Fa0
PC-PT
nouman PC9
Fa0
PC-PT
nouman PC10
Fa0
PC-PT
nouman PC11
Fa0
PC-PT
nouman PC12
Time: 02:20:44
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Activate Windows
Go to Settings to activate Windows.
Serial DCE

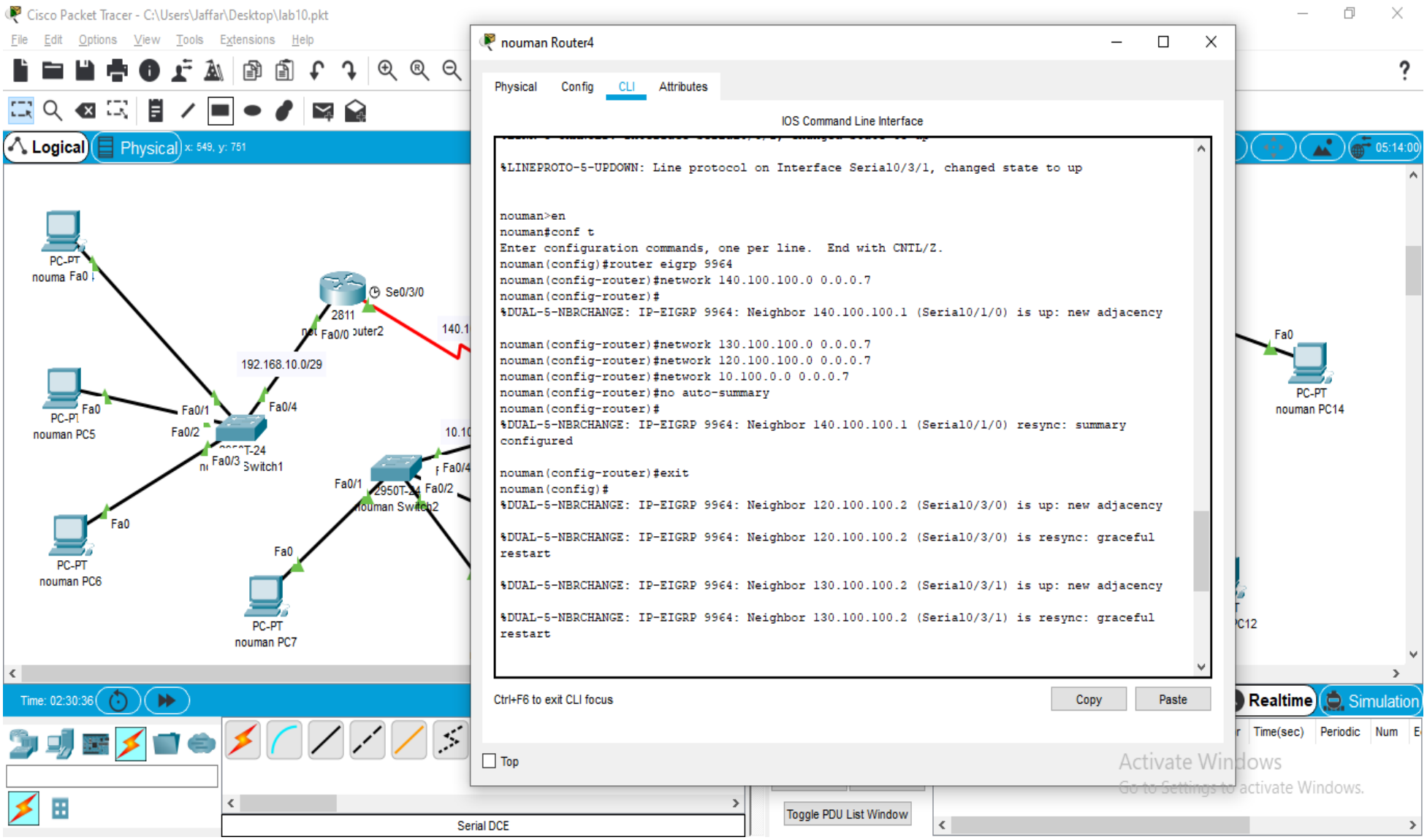

Cisco Packet Tracer - C:\Users\Jaffar\Desktop\lab10.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
nouman Router2
Physical Config CLI Attributes
IOS Command Line Interface
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname nouman
nouman(config)#interface fa 0/0
nouman(config-if)#ip address 192.168.10.1 255.255.255.248
nouman(config-if)#no shutdown
nouman(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
nouman(config-if)#exit
nouman(config)#interface se0/3/0
nouman(config-if)#ip address 140.100.100.1 255.255.255.248
nouman(config-if)#clock rate 64000
nouman(config-if)#no shutdown
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to down
nouman(config-if)#exit
nouman(config)#
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
192.168.10.0/29
140.100.100.0/29
10.100.0.0/29
Se0/3/0
Se0/1/0
Se0/3/1
Fa0/1
Fa0/2
Fa0/3
Fa0/4
Fa0
PC-PT nouman PC5
PC-PT nouman PC6
PC-PT nouman PC7
PC-PT nouman PC8
PC-PT nouman PC14
nouman Router4
Switch1
Switch2
Time: 02:24:08
Realtime
Simulation
New
Delete
Toggle PDU List Window
Serial DCE
Time(sec)
Periodic
Num
Activate Windows
Go to Settings to activate Windows.

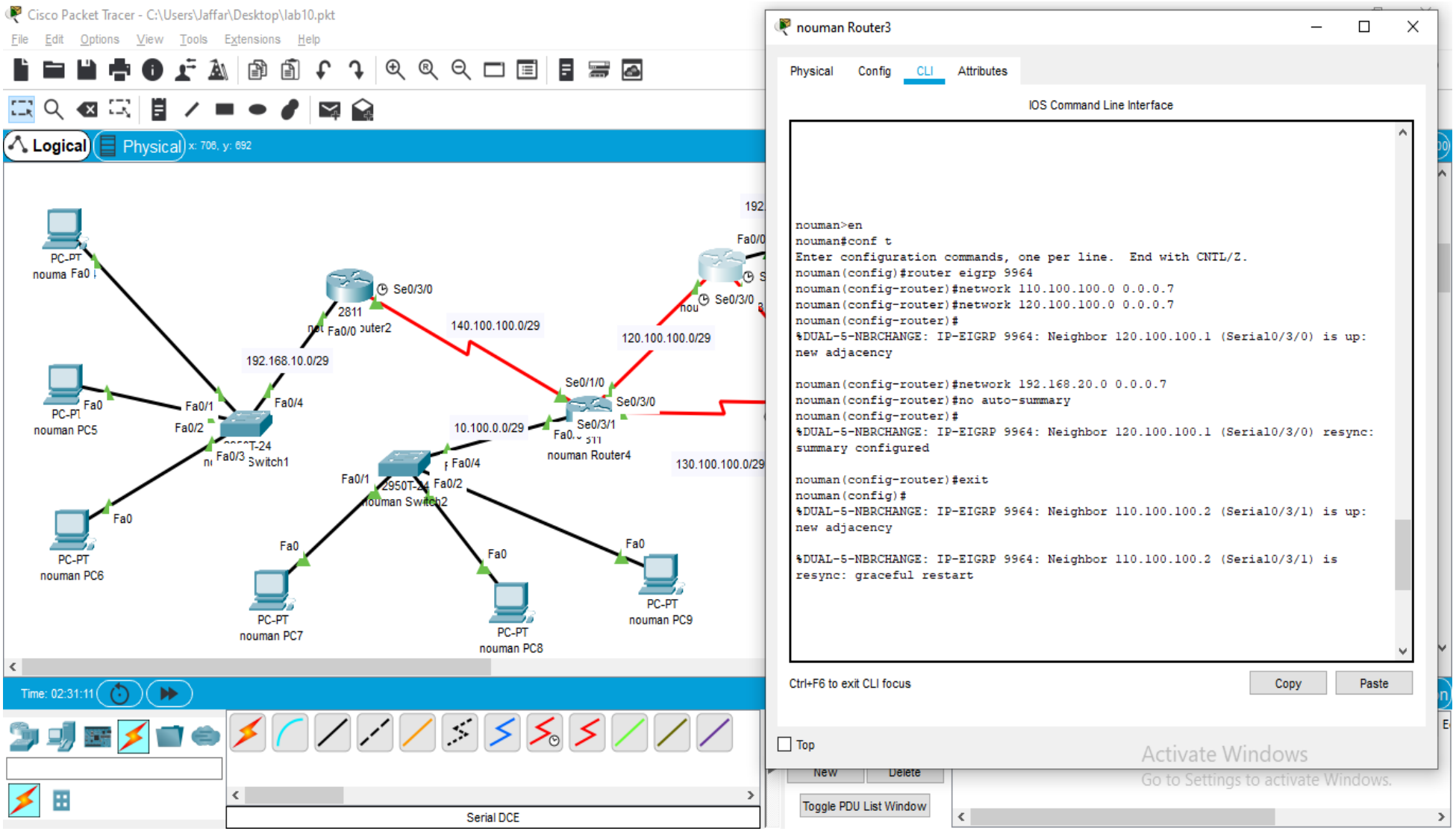

Cisco Packet Tracer - C:\Users\Jaffar\Desktop\lab10.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
x: 547, y: 753
PC-PT nouma Fa0
2811 Fa0/0 Router2
Se0/3/0
192.168.10.0/29
PC-PT nouman PC5
Fa0
Fa0/1
Fa0/2
Fa0/3
Fa0/4
2950T-24 Switch1
2950T-24 nouman Switch2
PC-PT nouman PC6
PC-PT nouman PC7
Time: 02:25:37
nouman Router4
Physical Config CLI Attributes
IOS Command Line Interface
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname nouman
nouman(config)#interface se0/1/0
nouman(config-if)#ip address 140.100.100.2 255.255.255.248
nouman(config-if)#no shutdown
nouman(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up
nouman(config-if)#exit
nouman(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up
nouman(config)#interface fa 0/0
nouman(config-if)#ip address 10.100.0.1 255.255.255.248
nouman(config-if)#no shutdown
nouman(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
nouman(config-if)#exit
nouman(config)#interface 0/3/0
% Invalid input detected at '^' marker.
nouman(config)#interface se 0/3/0
nouman(config-if)#ip address 120.100.100.1 255.255.255.248
nouman(config-if)#no shutdown
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to down
nouman(config-if)#exit
nouman(config)#interface se0/3/1
nouman(config-if)#ip address 130.100.100.1 255.255.255.248
nouman(config-if)#no shutdown
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
Activate Windows
Go to Settings to activate Windows.
PC-PT nouman PC14
Realtime
Simulation
Time(sec)
Periodic
Num

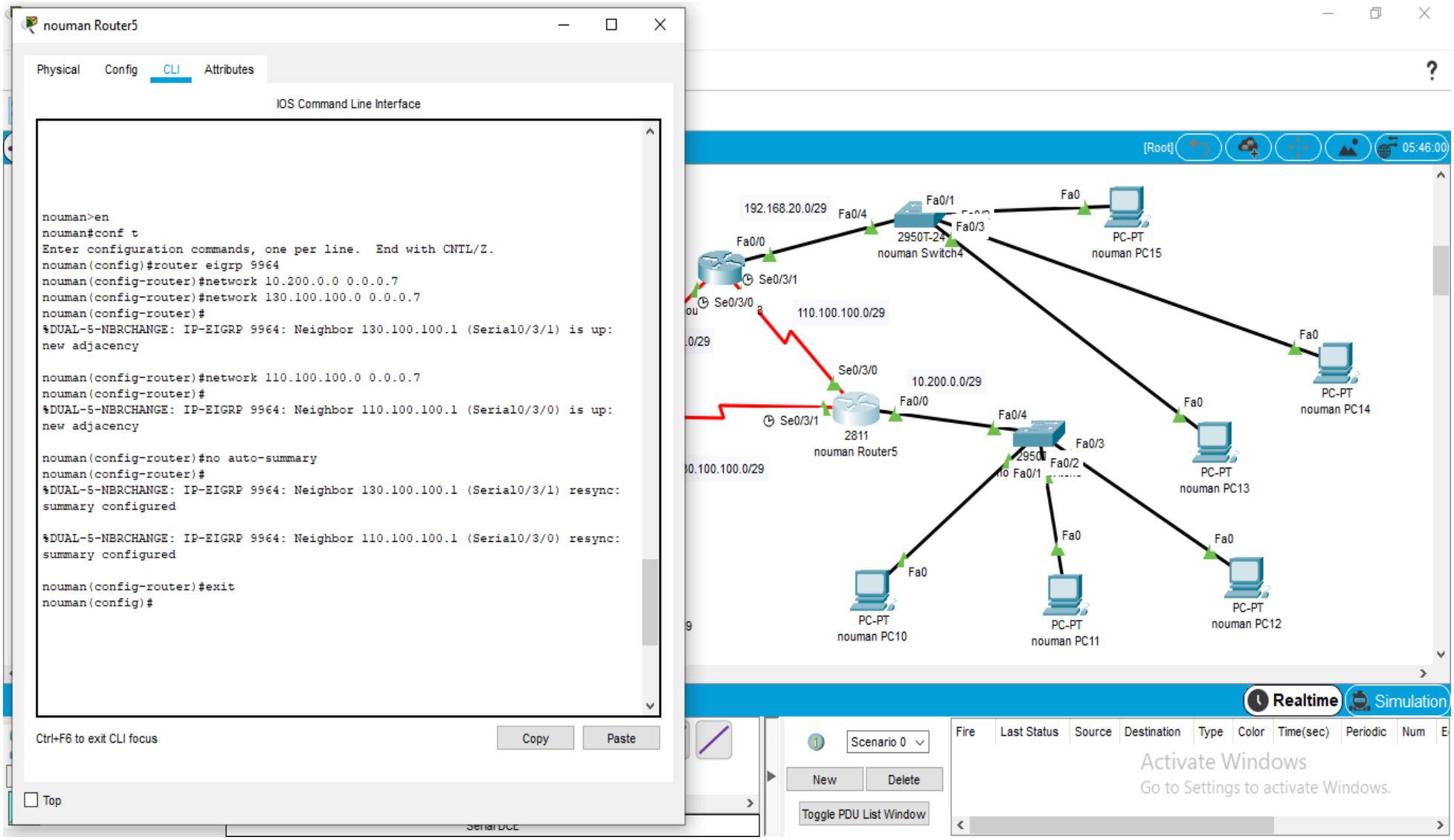

Cisco Packet Tracer - C:\Users\Jaffar\Desktop\lab10.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
x: 678, y: 632
PC-PT nouma Fa0
2811 Fa0/0 Router2
Se0/3/0
140.100.100.0/29
120.100.100.0/29
192.168.10.0/29
Fa0/1
Fa0/2
Fa0/3
Fa0/4
Switch1
PC-PT nouman PC5
Fa0
PC-PT nouman PC6
Fa0
Se0/1/0
Se0/3/0
Se0/3/1
nouman Router4
10.100.0.0/29
130.100.100.0/29
2950T-24 nouman Switch2
PC-PT nouman PC7
PC-PT nouman PC8
PC-PT nouman PC9
Time: 02:26:40
Serial DCE
nouman Router3
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname nouman
nouman(config)#interface se0/3/0
nouman(config-if)#ip address 120.100.100.2 255.255.255.248
nouman(config-if)#clock rate 64000
nouman(config-if)#no shutdown
nouman(config-if)#
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
nouman(config-if)#exit
nouman(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed state to up
nouman(config)#interface fa0/0
nouman(config-if)#ip address 192.168.20.1 255.255.255.248
nouman(config-if)#no shutdown
nouman(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
nouman(config-if)#exit
nouman(config)#interface se0/3/1
nouman(config-if)#ip address 110.100.100.1 255.255.255.248
nouman(config-if)#clock rate 64000
nouman(config-if)#no shutdown
%LINK-5-CHANGED: Interface Serial0/3/1, changed state to down
nouman(config-if)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
New
Delete
Toggle PDU List Window
Activate Windows
Go to Settings to activate Windows.

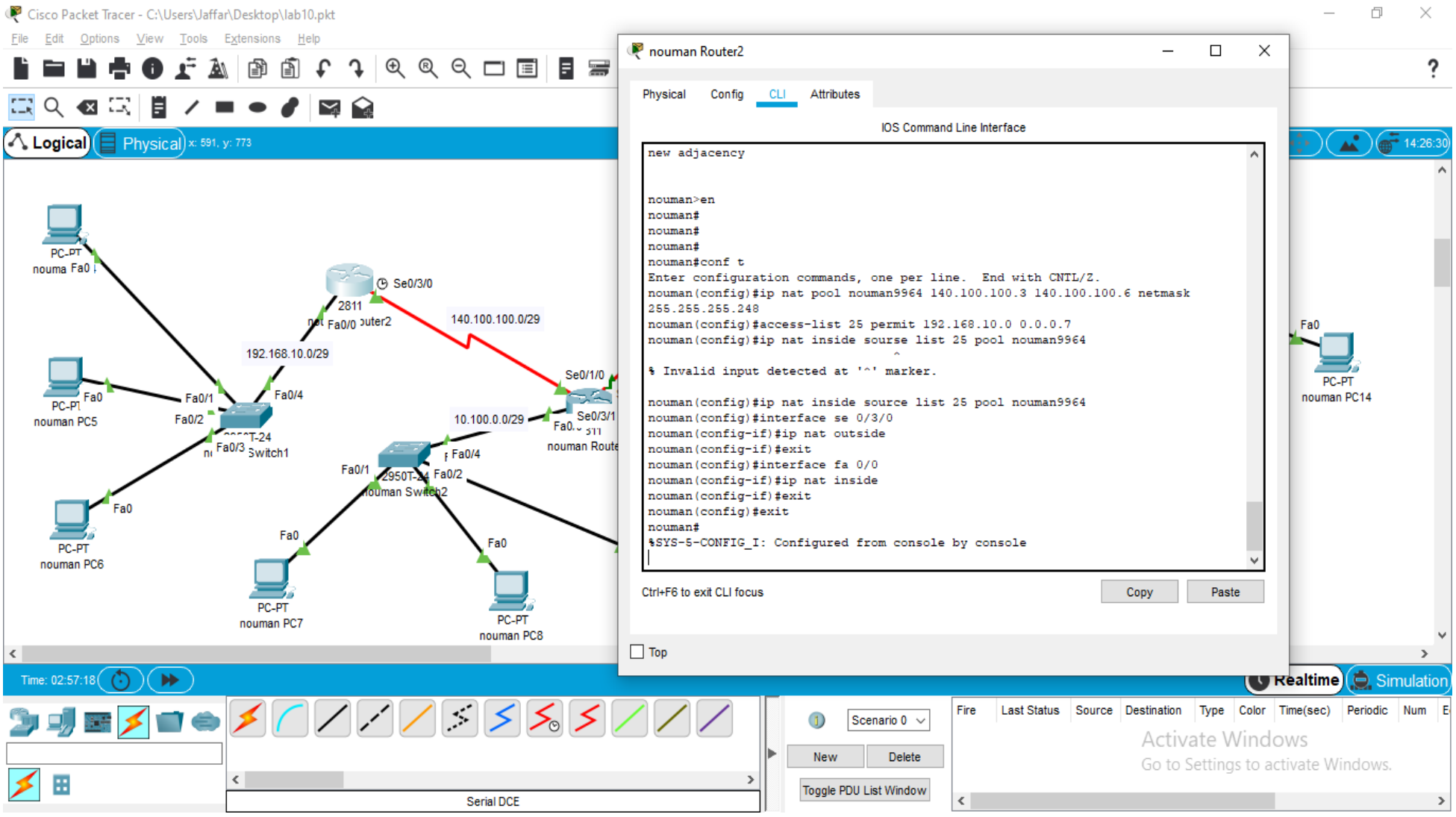

nouman Router5
Physical
Config
CLI
Attributes
IOS Command Line Interface
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname nouman
nouman(config)#interface fa 0/0
nouman(config-if)#ip address 10.200.0.1 255.255.255.248
nouman(config-if)#no shutdown
nouman(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
nouman(config-if)#exit
nouman(config)#interface se0/3/1
nouman(config-if)#ip address 130.100.100.2 255.255.255.248
nouman(config-if)#clock rate 64000
nouman(config-if)#no shutdown
nouman(config-if)#
%LINK-5-CHANGED: Interface Serial0/3/1, changed state to up
nouman(config-if)#exit
nouman(config)#inte
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/1, changed state to up
rface
% Incomplete command.
nouman(config)#interface se 0/3/0
nouman(config-if)#ip address 110.100.100.2 255.255.255.248
nouman(config-if)#no shutdown
nouman(config-if)#
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up
nouman(config-if)#exit
nouman(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
192.168.20.0/29
Fa0/4
Fa0/1
Fa0/3
2950T-24
nouman Switch4
Fa0
PC-PT
nouman PC15
Fa0/0
Se0/3/1
Se0/3/0
110.100.100.0/29
Fa0
PC-PT
nouman PC14
Se0/3/0
10.200.0.0/29
Fa0/0
Se0/3/1
2811
nouman Router5
Fa0/4
Fa0/3
Fa0/2
Fa0/1
Fa0
PC-PT
nouman PC13
Fa0
PC-PT
nouman PC10
Fa0
PC-PT
nouman PC11
Fa0
PC-PT
nouman PC12
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Activate Windows
Go to Settings to activate Windows.

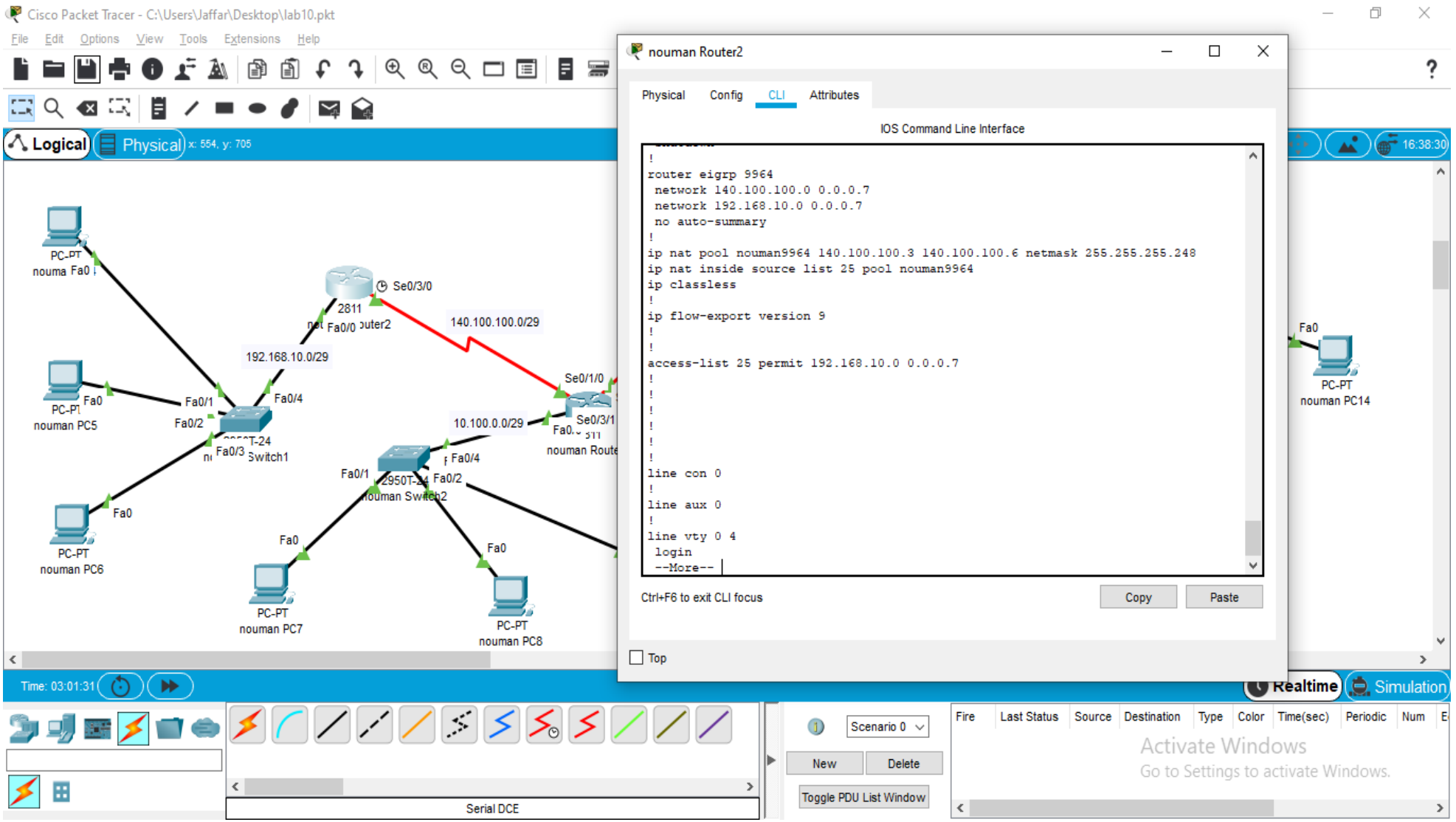

Cisco Packet Tracer - C:\Users\Jaffar\Desktop\lab10.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
x: 670, y: 728
04:50:00
nouman Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
nouman>en
nouman#conf t
Enter configuration commands, one per line. End with CNTL/Z.
nouman(config)#router eigrp 9964
nouman(config-router)#network 140.100.100.0 0.0.0.7
nouman(config-router)#network 192.168.10.0 0.0.0.7
nouman(config-router)#no auto-summary
nouman(config-router)#exit
nouman(config)#
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 140.100.100.2
(Serial0/3/0) is up: new adjacency
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 140.100.100.2
(Serial0/3/0) is resync: graceful restart
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
PC-PT nouma Fa0
2811 Fa0/0 Router2
Se0/3/0
140.100.100.0/29
120.100.100.0/29
192.168.10.0/29
Se0/1/0
Se0/3/0
Se0/3/1
nouman Router4
10.100.0.0/29
PC-PT nouman PC5
Fa0
Fa0/1
Fa0/2
Fa0/3
Fa0/4
2950T-24 Switch1
PC-PT nouman PC6
Fa0
2950T-24 nouman Switch2
PC-PT nouman PC7
PC-PT nouman PC8
PC-PT nouman PC9
PC-PT uman PC14
Time: 02:29:50
Realtime
Simulation
Serial DCE
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Activate Windows
Go to Settings to activate Windows.

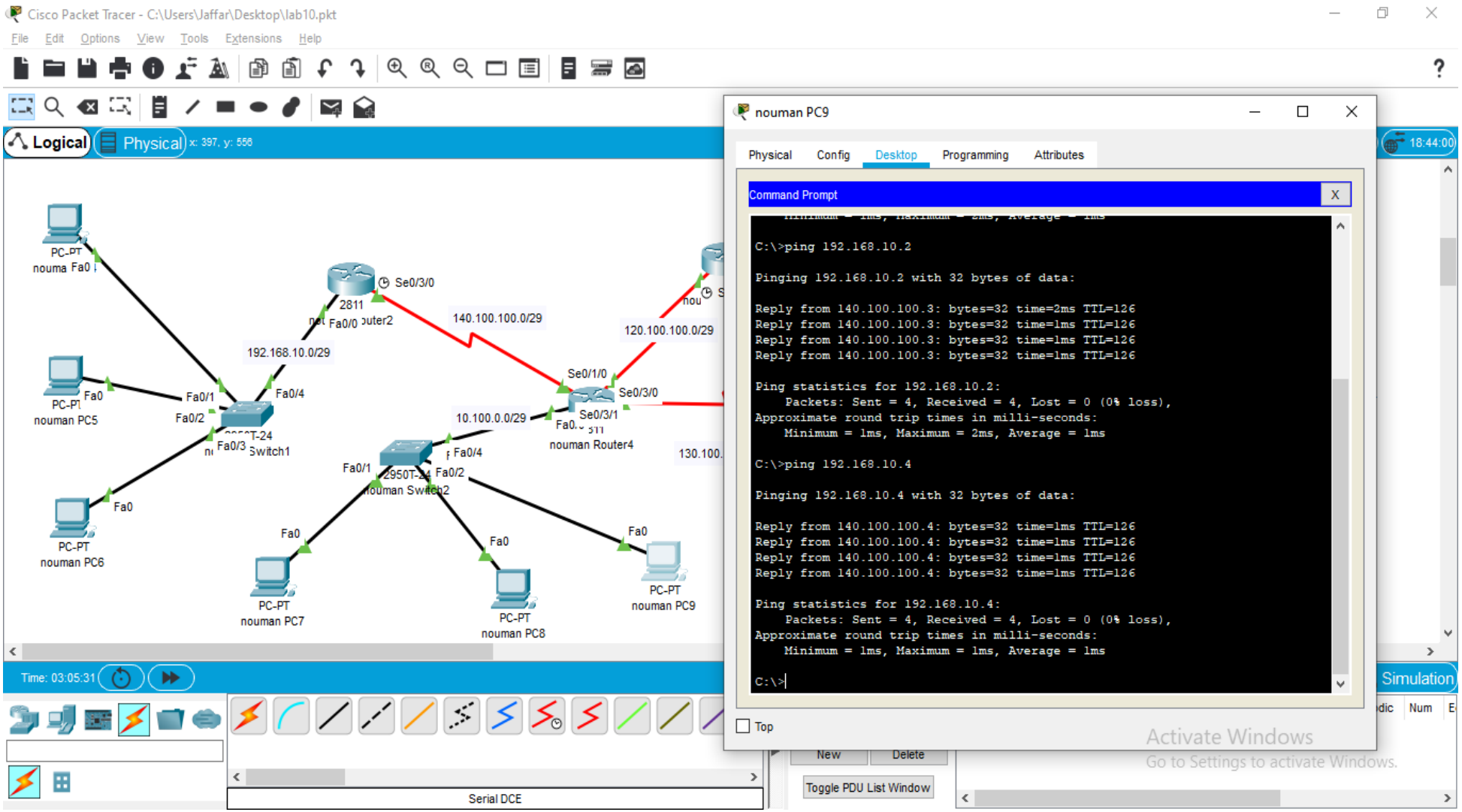

Cisco Packet Tracer - C:\Users\Jaffar\Desktop\lab10.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
x: 549, y: 751
05:14:00
nouman Router4
Physical
Config
CLI
Attributes
IOS Command Line Interface
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/1, changed state to up
nouman>en
nouman#conf t
Enter configuration commands, one per line. End with CNTL/Z.
nouman(config)#router eigrp 9964
nouman(config-router)#network 140.100.100.0 0.0.0.7
nouman(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 140.100.100.1 (Serial0/1/0) is up: new adjacency
nouman(config-router)#network 130.100.100.0 0.0.0.7
nouman(config-router)#network 120.100.100.0 0.0.0.7
nouman(config-router)#network 10.100.0.0 0.0.0.7
nouman(config-router)#no auto-summary
nouman(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 140.100.100.1 (Serial0/1/0) resync: summary
configured
nouman(config-router)#exit
nouman(config)#
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 120.100.100.2 (Serial0/3/0) is up: new adjacency
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 120.100.100.2 (Serial0/3/0) is resync: graceful restart
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 130.100.100.2 (Serial0/3/1) is up: new adjacency
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 130.100.100.2 (Serial0/3/1) is resync: graceful restart
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
Activate Windows
Go to Settings to activate Windows.
192.168.10.0/29
Se0/3/0
2811
Fa0/0
Fa0/1
Fa0/2
Fa0/3
Fa0/4
Switch1
2950T-24
nouman Switch2
PC-PT
nouman PC5
nouman PC6
nouman PC7
nouman PC14
Time: 02:30:36
Realtime
Simulation
Time(sec)
Periodic
Num
Toggle PDU List Window
Serial DCE


Cisco Packet Tracer - C:\Users\Jaffar\Desktop\lab10.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
x: 706, y: 692
PC-PT nouma Fa0
2811 Fa0/0 Router2
Se0/3/0
140.100.100.0/29
192.168.10.0/29
120.100.100.0/29
Fa0/1
Fa0/2
Fa0/3
Fa0/4
Switch1
PC-PT nouman PC5
Fa0
PC-PT nouman PC6
Fa0
Se0/1/0
Se0/3/0
Se0/3/1
nouman Router4
10.100.0.0/29
130.100.100.0/29
2950T-24 nouman Switch2
PC-PT nouman PC7
PC-PT nouman PC8
PC-PT nouman PC9
Time: 02:31:11
Serial DCE
nouman Router3
Physical
Config
CLI
Attributes
IOS Command Line Interface
nouman>en
nouman#conf t
Enter configuration commands, one per line. End with CNTL/Z.
nouman(config)#router eigrp 9964
nouman(config-router)#network 110.100.100.0 0.0.0.7
nouman(config-router)#network 120.100.100.0 0.0.0.7
nouman(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 120.100.100.1 (Serial0/3/0) is up: new adjacency
nouman(config-router)#network 192.168.20.0 0.0.0.7
nouman(config-router)#no auto-summary
nouman(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 120.100.100.1 (Serial0/3/0) resync: summary configured
nouman(config-router)#exit
nouman(config)#
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 110.100.100.2 (Serial0/3/1) is up: new adjacency
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 110.100.100.2 (Serial0/3/1) is resync: graceful restart
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
Activate Windows
Go to Settings to activate Windows.
New
Delete
Toggle PDU List Window


nouman Router5
Physical
Config
CLI
Attributes
IOS Command Line Interface
nouman>en
nouman#conf t
Enter configuration commands, one per line. End with CNTL/Z.
nouman(config)#router eigrp 9964
nouman(config-router)#network 10.200.0.0 0.0.0.7
nouman(config-router)#network 130.100.100.0 0.0.0.7
nouman(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 130.100.100.1 (Serial0/3/1) is up:
new adjacency
nouman(config-router)#network 110.100.100.0 0.0.0.7
nouman(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 110.100.100.1 (Serial0/3/0) is up:
new adjacency
nouman(config-router)#no auto-summary
nouman(config-router)#
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 130.100.100.1 (Serial0/3/1) resync:
summary configured
%DUAL-5-NBRCHANGE: IP-EIGRP 9964: Neighbor 110.100.100.1 (Serial0/3/0) resync:
summary configured
nouman(config-router)#exit
nouman(config)#
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
[Root]
05:46:00
192.168.20.0/29
Fa0/4
Fa0/1
Fa0/3
Fa0
2950T-24
nouman Switch4
PC-PT
nouman PC15
Fa0/0
Se0/3/1
Se0/3/0
110.100.100.0/29
Fa0
PC-PT
nouman PC14
Se0/3/0
10.200.0.0/29
Fa0/0
Se0/3/1
2811
nouman Router5
Fa0/4
Fa0/3
Fa0/2
Fa0/1
Fa0
PC-PT
nouman PC13
Fa0
Fa0
Fa0
PC-PT
nouman PC10
PC-PT
nouman PC11
PC-PT
nouman PC12
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Activate Windows
Go to Settings to activate Windows.


Cisco Packet Tracer - C:\Users\Jaffar\Desktop\lab10.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
x: 591, y: 773
14:26:30
PC-PT nouma Fa0
2811 Fa0/0 outer2
Se0/3/0
140.100.100.0/29
192.168.10.0/29
Se0/1/0
Se0/3/1
nouman Route
PC-PT nouman PC5
Fa0
Fa0/1
Fa0/2
Fa0/3
Fa0/4
Switch1
10.100.0.0/29
Fa0/1
Fa0/2
Fa0/4
nouman Switch2
PC-PT nouman PC6
PC-PT nouman PC7
PC-PT nouman PC8
PC-PT nouman PC14
Time: 02:57:18
Realtime
Simulation
Serial DCE
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Activate Windows
Go to Settings to activate Windows.
nouman Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
new adjacency
nouman>en
nouman#
nouman#
nouman#
nouman#conf t
Enter configuration commands, one per line. End with CNTL/Z.
nouman(config)#ip nat pool nouman9964 140.100.100.3 140.100.100.6 netmask
255.255.255.248
nouman(config)#access-list 25 permit 192.168.10.0 0.0.0.7
nouman(config)#ip nat inside sourse list 25 pool nouman9964
% Invalid input detected at '^' marker.
nouman(config)#ip nat inside source list 25 pool nouman9964
nouman(config)#interface se 0/3/0
nouman(config-if)#ip nat outside
nouman(config-if)#exit
nouman(config)#interface fa 0/0
nouman(config-if)#ip nat inside
nouman(config-if)#exit
nouman(config)#exit
nouman#
%SYS-5-CONFIG_I: Configured from console by console
Ctrl+F6 to exit CLI focus
Copy
Paste
Top


Cisco Packet Tracer - C:\Users\Jaffar\Desktop\lab10.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
x: 554, y: 705
16:38:30
nouman Router2
Physical
Config
CLI
Attributes
IOS Command Line Interface
!
router eigrp 9964
network 140.100.100.0 0.0.0.7
network 192.168.10.0 0.0.0.7
no auto-summary
!
ip nat pool nouman9964 140.100.100.3 140.100.100.6 netmask 255.255.255.248
ip nat inside source list 25 pool nouman9964
ip classless
!
ip flow-export version 9
!
!
access-list 25 permit 192.168.10.0 0.0.0.7
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
--More--
Ctrl+F6 to exit CLI focus
Copy
Paste
Top
PC-PT
nouma Fa0
2811
Fa0/0
Se0/3/0
140.100.100.0/29
192.168.10.0/29
Se0/1/0
Se0/3/1
10.100.0.0/29
Fa0/1
Fa0/2
Fa0/3
Fa0/4
Switch1
2950T-24
nouman Switch2
nouman Router2
PC-PT
nouman PC5
PC-PT
nouman PC6
PC-PT
nouman PC7
PC-PT
nouman PC8
PC-PT
nouman PC14
Fa0
Time: 03:01:31
Realtime
Simulation
Serial DCE
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Activate Windows
Go to Settings to activate Windows.


Cisco Packet Tracer - C:\Users\Jaffar\Desktop\lab10.pkt
File Edit Options View Tools Extensions Help
Logical
Physical
x: 397, y: 556
18:44:00
PC-PT nouma Fa0
2811 Fa0/0 Router2
Se0/3/0
140.100.100.0/29
120.100.100.0/29
192.168.10.0/29
Fa0/1
Fa0/2
Fa0/3
Fa0/4
T-24 Switch1
PC-PT nouman PC5
Fa0
Se0/1/0
Se0/3/0
Se0/3/1
nouman Router4
10.100.0.0/29
130.100.
Fa0/1
Fa0/2
Fa0/4
nouman Switch2
PC-PT nouman PC6
PC-PT nouman PC7
PC-PT nouman PC8
PC-PT nouman PC9
Time: 03:05:31
Simulation
Serial DCE
New
Delete
Toggle PDU List Window
Num
nouman PC9
Physical
Config
Desktop
Programming
Attributes
Command Prompt
C:\>ping 192.168.10.2
Pinging 192.168.10.2 with 32 bytes of data:
Reply from 140.100.100.3: bytes=32 time=2ms TTL=126
Reply from 140.100.100.3: bytes=32 time=1ms TTL=126
Reply from 140.100.100.3: bytes=32 time=1ms TTL=126
Reply from 140.100.100.3: bytes=32 time=1ms TTL=126
Ping statistics for 192.168.10.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 2ms, Average = 1ms
C:\>ping 192.168.10.4
Pinging 192.168.10.4 with 32 bytes of data:
Reply from 140.100.100.4: bytes=32 time=1ms TTL=126
Reply from 140.100.100.4: bytes=32 time=1ms TTL=126
Reply from 140.100.100.4: bytes=32 time=1ms TTL=126
Reply from 140.100.100.4: bytes=32 time=1ms TTL=126
Ping statistics for 192.168.10.4:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 1ms, Average = 1ms
C:\>
Top
Activate Windows
Go to Settings to activate Windows.

SHOW IP NAT TRANSLATION:-

Show IP NAT translation means that the ***NAT*** operates on a router, usually connecting two networks together, and translates the private (not globally unique) address (192.168.10.0) in the internal network into legal address (140.100.100.0), before packets are forwarded to another network.