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Course : MCA - A

Subject : Computer Network TMC-203

Uni Rollno : 2001095

Problem Statement : Design a network between the SOC depart. of GEU and GEHU.

Objective : The communication between user number 1 of GEU and user number 2 of GEHO.

STEP 1 : Add 2 routers on logical screen

STEP 2 : Add 2 PCs and 2 LAN

STEP 3 : Join all the components with

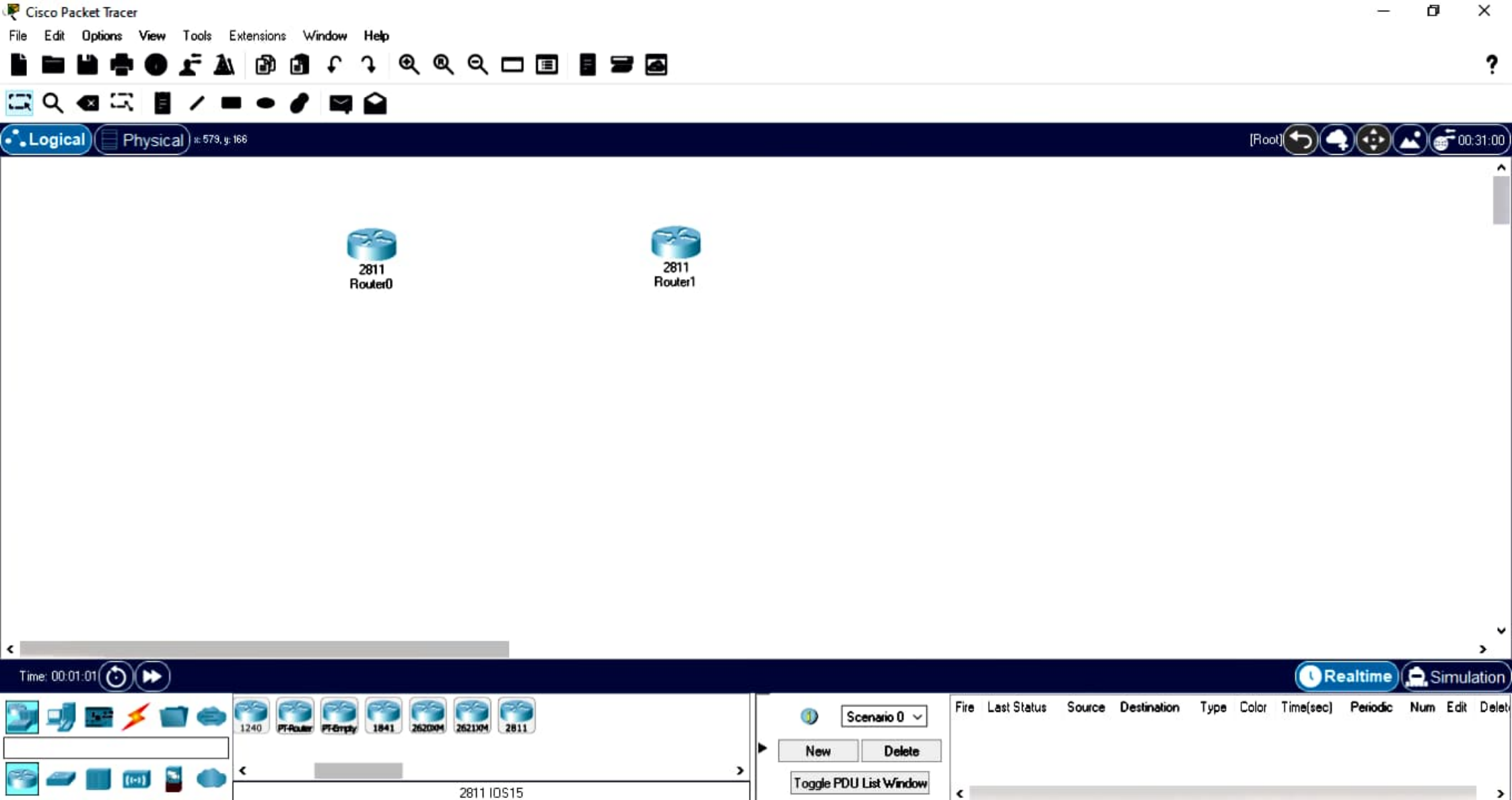
STEP 4 : Configure both the routers to connect each other.

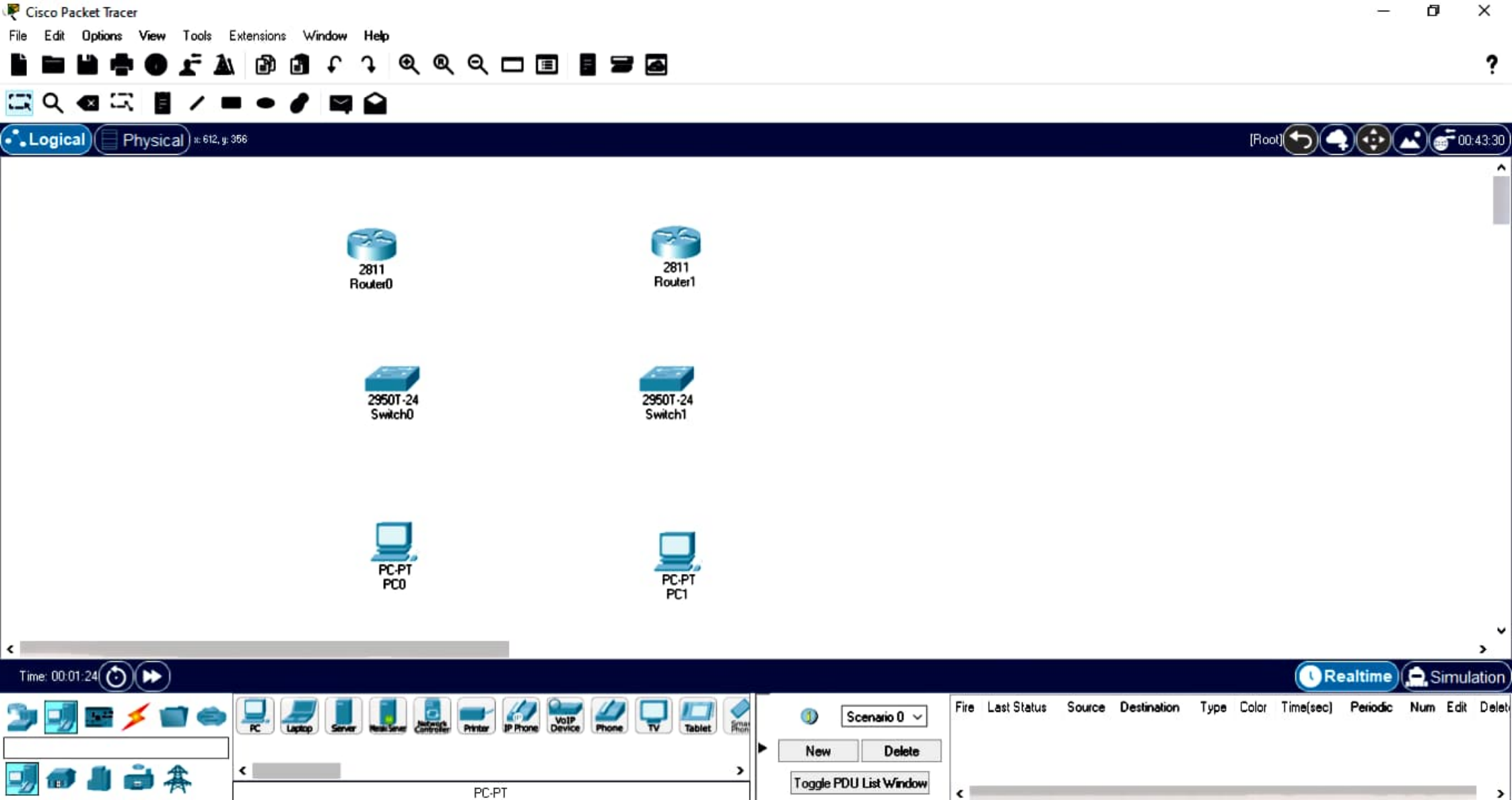
STEP 5 : Connect Routers with DTE

STEP 6 : Configure Router ID addresses.

STEP 7 : Configure PC id Addresses

STEP 8 : Check Network by sending a package.

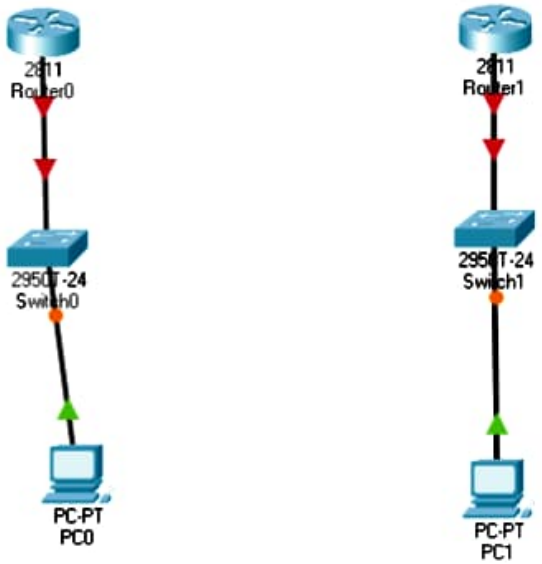

Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
x: 579, y: 166
[Root]
00:31:00
2811
Router0
2811
Router1
Time: 00:01:01
Realtime
Simulation
1240
PT-Router
PT-Empty
1841
2620XM
2621XM
2811
2811 IOS15
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit
Delete


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
x: 612, y: 356
[Root]
00:43:30
2811
Router0
2811
Router1
2950T-24
Switch0
2950T-24
Switch1
PC-PT
PC0
PC-PT
PC1
Time: 00:01:24
Realtime
Simulation
PC
Laptop
Server
Printer
IP Phone
VoIP Device
Phone
TV
Tablet
PC-PT
Scenario 0
New
Delete
Toggle PDU List Window
Fire
Last Status
Source
Destination
Type
Color
Time(sec)
Periodic
Num
Edit

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 770, y: 327 [Root] 02:11:00



Time: 00:04:13 Realtime Simulation

Copper Straight-Through

Scenario 0 New Delete Toggle PDU List Window

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

Cisco Packet Tracer

File Edit Options View Tools Extensions Window

Logical Physical x: 610, y: 80

[Root] 03:12:00

Time: 00:06:10

Realtime Simulation

Type Color Time(sec) Periodic Num Edit Delete

Copper Straight-Through

Toggle PDU List Window

Router1

Physical Config CLI Attributes

NM-1E2W
NM-1FE-FX
NM-1FE-TX
NM-1FE2W
NM-2E2W
NM-2FE2W
NM-2W
NM-4A/S
NM-4E
NM-8A/S
NM-8AM
NM-Cover
NM-ESW-161
HWIC-1GE-SFP
HWIC-2T
HWIC-4ESW
HWIC-8A
HWIC-AP-AG-B
WIC-1AM
WIC-1ENET
WIC-1T
WIC-2AM
WIC-2T
WIC-Cover
GLC-LH-SMD

Physical Device View

Zoom In | Original Size | Zoom Out

Customize Icon in Physical View

Customize Icon in Logical View

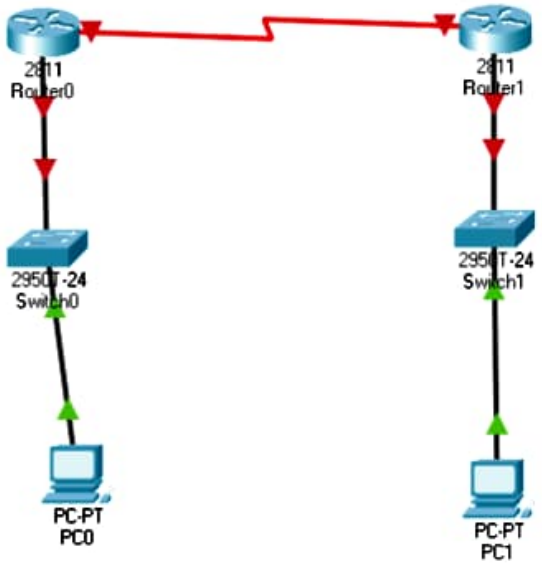
The WIC-1T provides a single port serial connection to remote sites or legacy serial network devices such as Synchronous Data Link Control (SDLC) concentrators, alarm systems, and packet over SONET (POS) devices.

Top

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 827, y: 374 [Root] 03:19:30

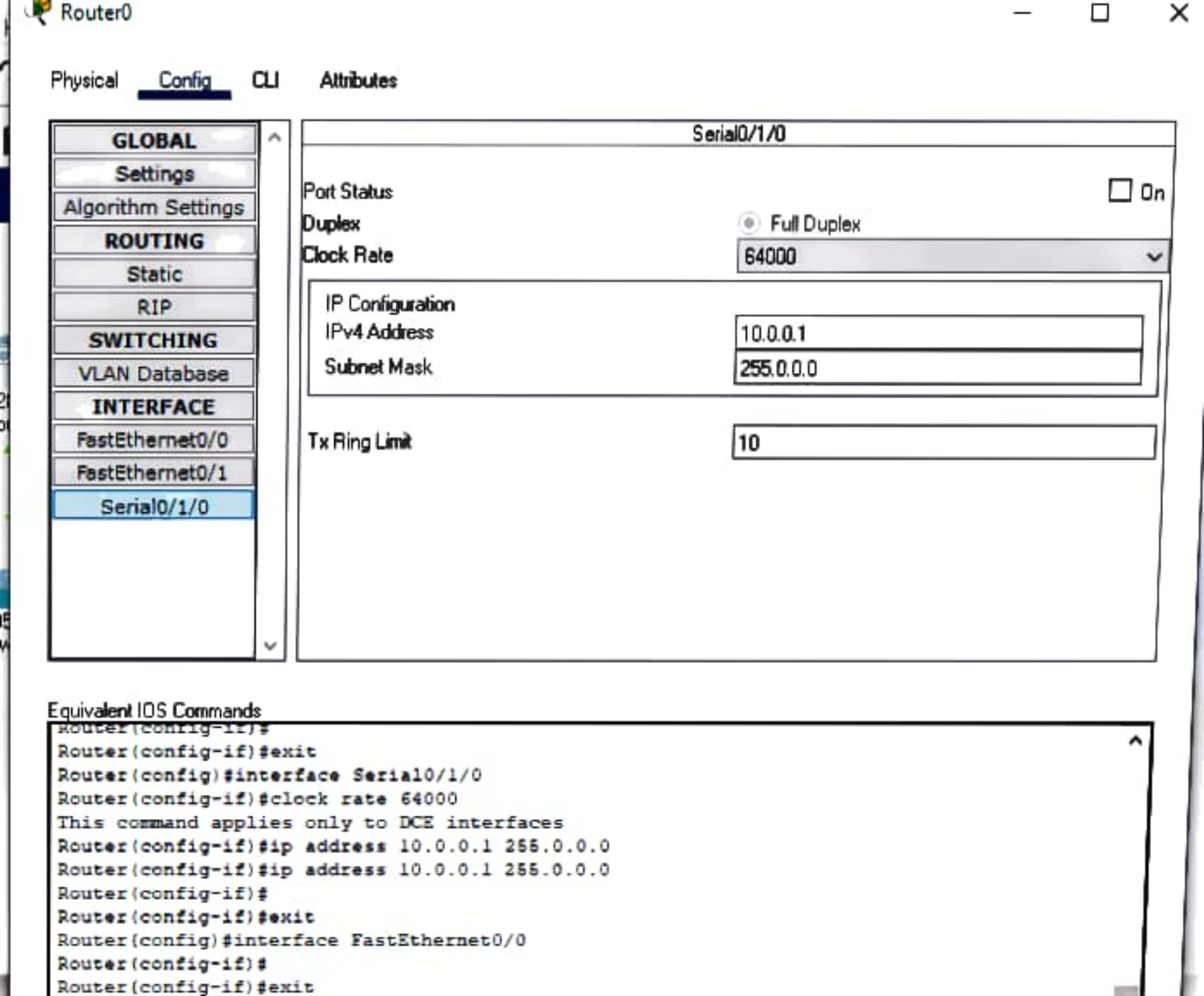


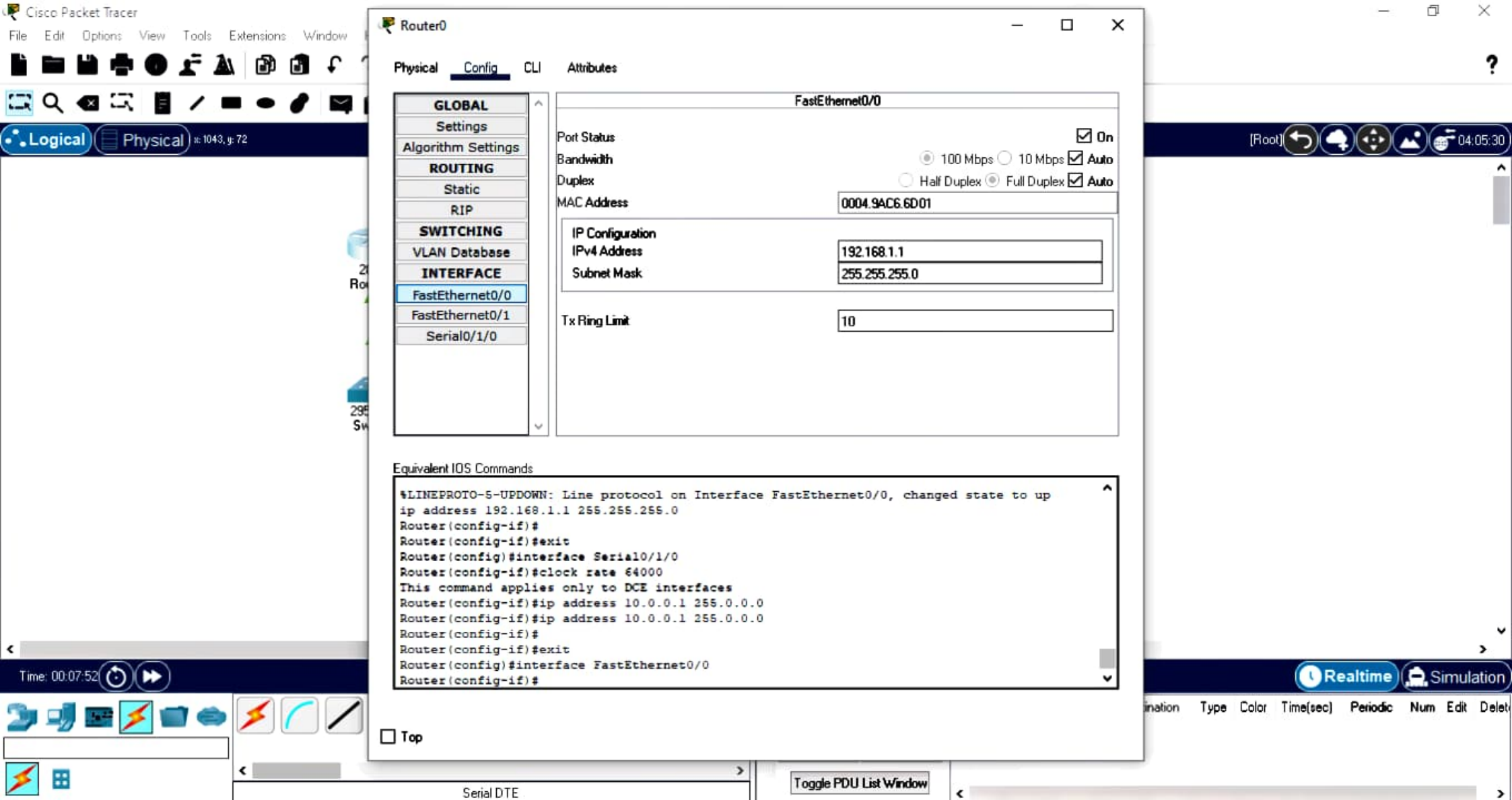
Time: 00:06:24 Realtime Simulation

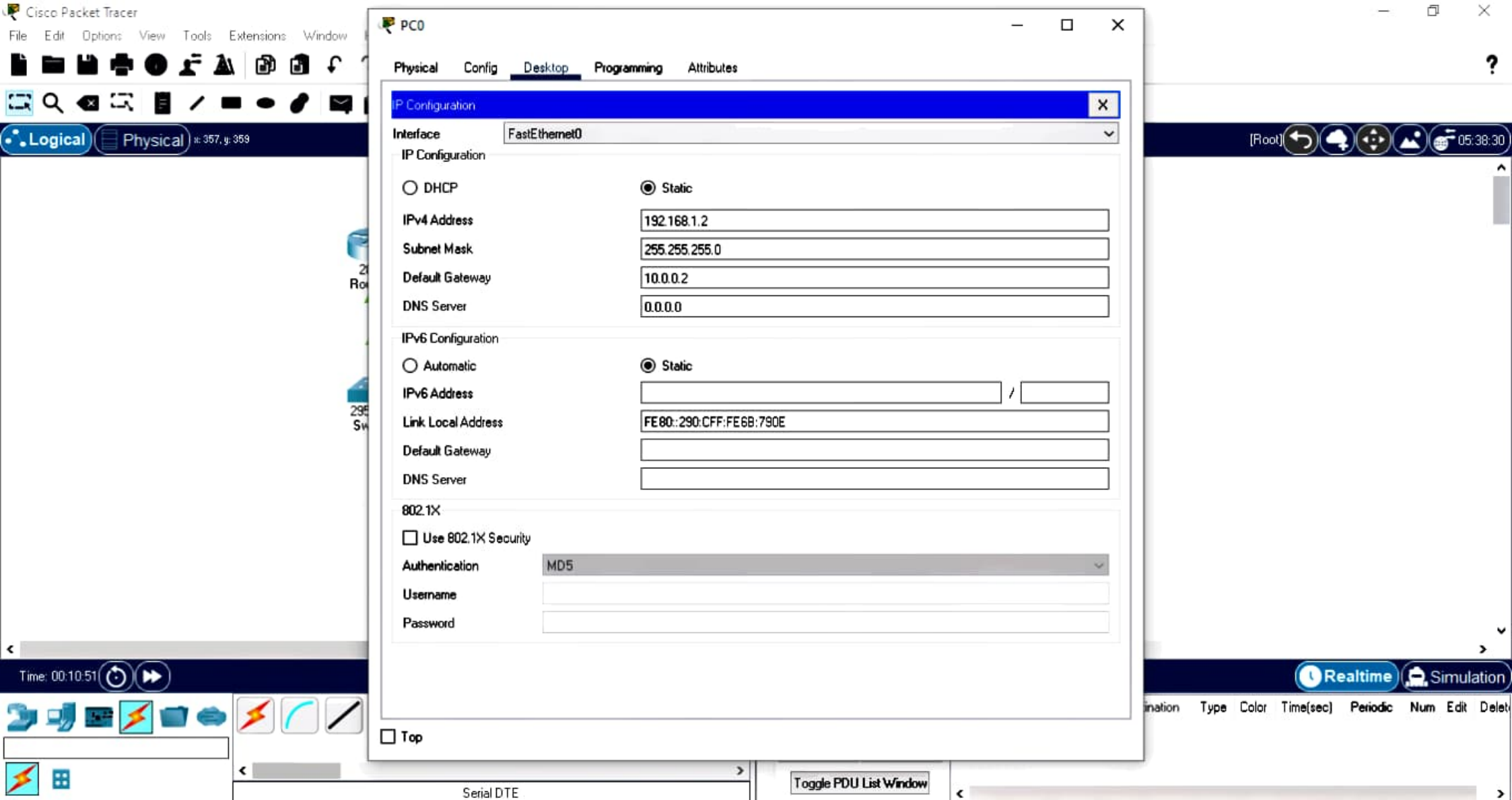
Serial DTE

Scenario 0 New Delete Toggle PDU List Window

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


Router0
Physical
Config
CLI
Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
FastEthernet0/0
FastEthernet0/1
Serial0/1/0
Serial0/1/0
Port Status
On
Duplex
Full Duplex
Clock Rate
64000
IP Configuration
IPv4 Address
10.0.0.1
Subnet Mask
255.0.0.0
Tx Ring Limit
10
Equivalent IOS Commands
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/1/0
Router(config-if)#clock rate 64000
This command applies only to DCE interfaces
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit

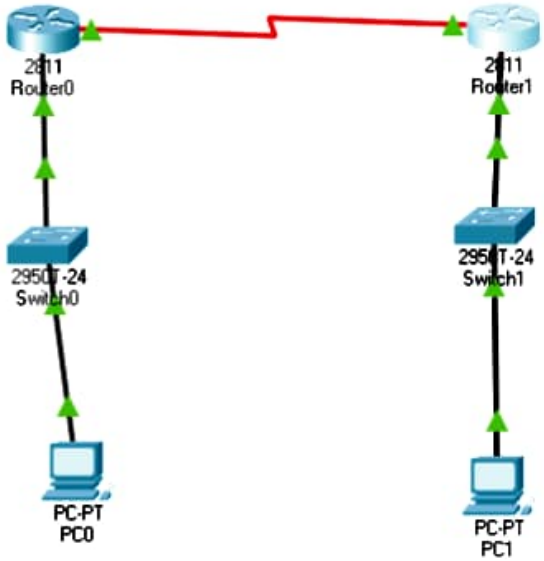

Cisco Packet Tracer
File Edit Options View Tools Extensions Window
Logical Physical x: 1043, y: 72
[Root] 04:05:30
Time: 00:07:52
Realtime Simulation
Router0
Physical Config CLI Attributes
GLOBAL
Settings
Algorithm Settings
ROUTING
Static
RIP
SWITCHING
VLAN Database
INTERFACE
FastEthernet0/0
FastEthernet0/1
Serial0/1/0
FastEthernet0/0
Port Status On
Bandwidth 100 Mbps 10 Mbps Auto
Duplex Half Duplex Full Duplex Auto
MAC Address 0004.9AC6.6D01
IP Configuration
IPv4 Address 192.168.1.1
Subnet Mask 255.255.255.0
Tx Ring Limit 10
Equivalent IOS Commands
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
ip address 192.168.1.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial0/1/0
Router(config-if)#clock rate 64000
This command applies only to DCE interfaces
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Top
Type Color Time(sec) Periodic Num Edit
Serial DTE
Toggle PDU List Window


Cisco Packet Tracer
File Edit Options View Tools Extensions Window
Logical Physical x: 357, y: 359
[Root] 05:38:30
PC0
Physical Config Desktop Programming Attributes
IP Configuration
Interface FastEthernet0
IP Configuration
DHCP Static
IPv4 Address 192.168.1.2
Subnet Mask 255.255.255.0
Default Gateway 10.0.0.2
DNS Server 0.0.0.0
IPv6 Configuration
Automatic Static
IPv6 Address /
Link Local Address FE80::290:CFF:FE6B:790E
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication MD5
Username
Password
Top
Time: 00:10:51
Realtime Simulation
Type Color Time(sec) Periodic Num Edit
Toggle PDU List Window
Serial DTE

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 489, y: 301 [Root] 07:19:30

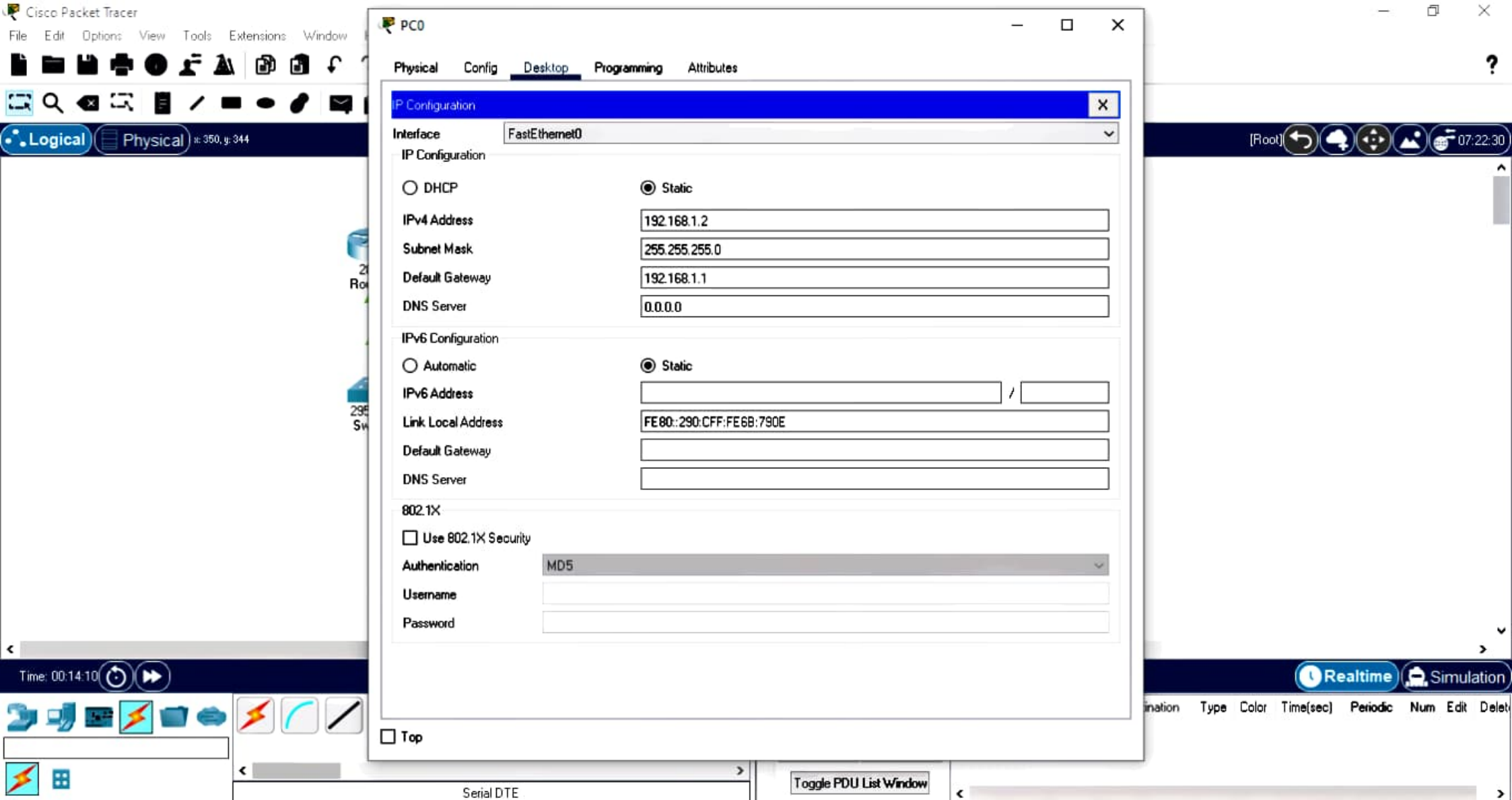


Time: 00:14:04 Realtime Simulation

Serial DTE

Scenario 0 New Delete Toggle PDU List Window

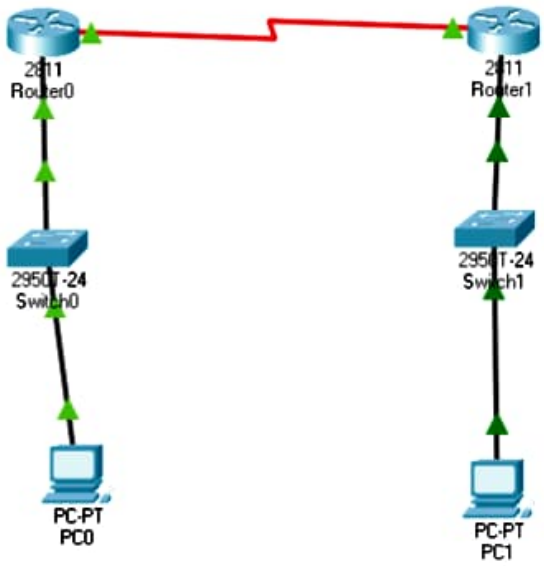
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete


Cisco Packet Tracer
File Edit Options View Tools Extensions Window
Logical Physical x: 350, y: 344
[Root] 07:22:30
PC0
Physical Config Desktop Programming Attributes
IP Configuration
Interface FastEthernet0
IP Configuration
DHCP Static
IPv4 Address 192.168.1.2
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::290:CFF:FE6B:790E
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication MD5
Username
Password
Top
Time: 00:14:10
Realtime Simulation
Type Color Time(sec) Periodic Num Edit
Toggle PDU List Window
Serial DTE

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 565, y: 435 [Root] 07:58:00



Time: 00:15:17 Realtime Simulation

Serial DTE

Scenario 0 New Delete Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	PC0	Router0	ICMP		0.000	N	0	(edit)	(delete)
	Failed	PC1	PC0	ICMP		0.000	N	1	(edit)	(delete)
	Successful	PC1	Router1	ICMP		0.000	N	2	(edit)	(delete)