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Course: MCA
Sec: A
Uni Roll: 2001115

Subject: Computer Network
Subject Code: TMC-203

Problem Statement: Design a network for the HR department and the size of the department is 10 users.

Objective: Creating a network to communicate between department.

Description: The Dynamic Host Configuration Protocol (DHCP) is a network management protocol used on Internet Protocol (IP) network of automatically assigning IP address.

Component Used: 1 Server, 10 PCs, 1 switch

Step 1: Add Server on the logical screen.

Step 2: Add Switch and PCs.

Step 3: Configure Server (Add IP address in Config. Settings)

Step 4: Now go to Service in Server and Select DHCP option in the left menu, And turn on Fast Ethernet services on.

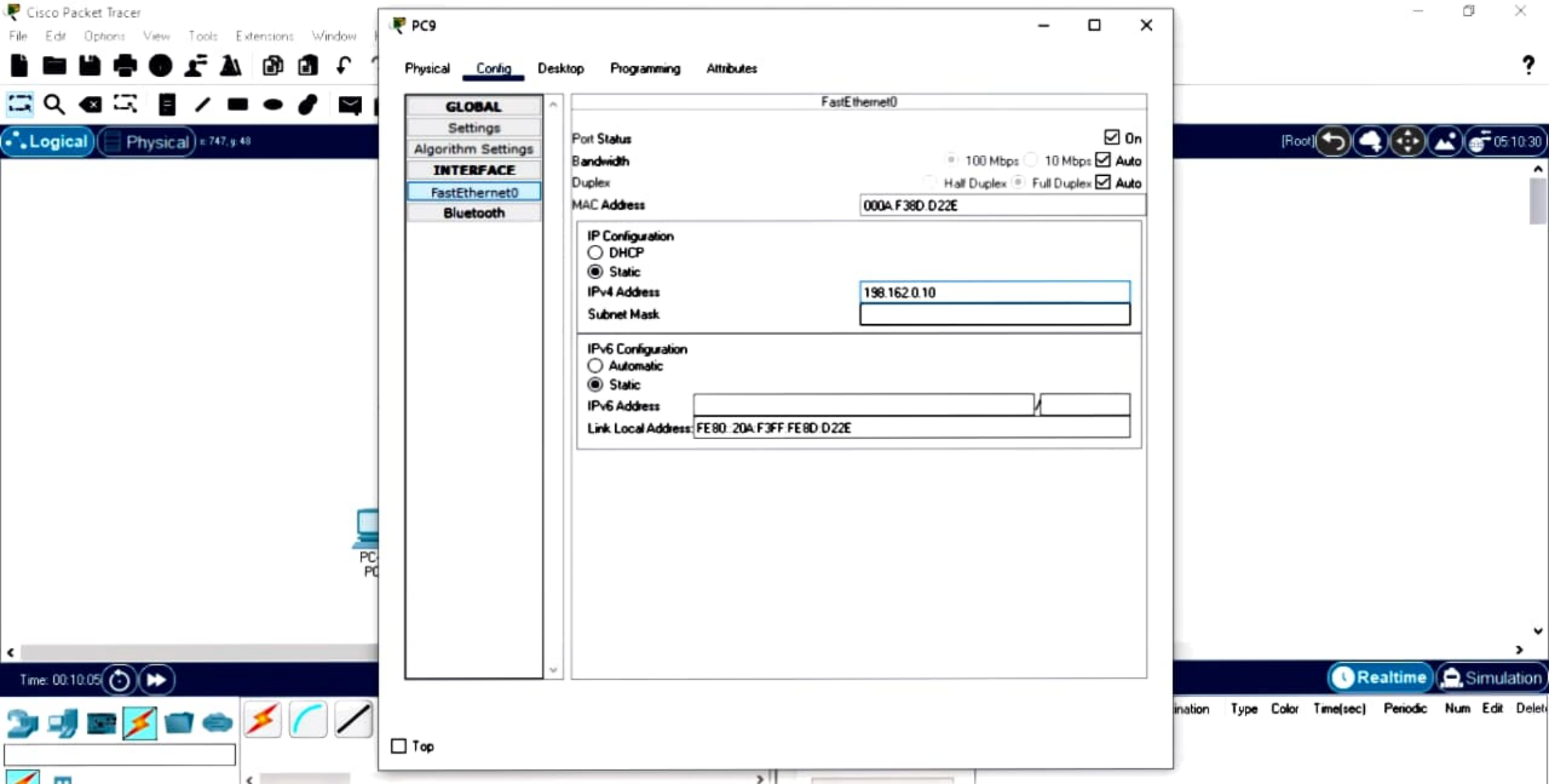
Step 5: Save the DHCP setting created.

Step 6: Now go to PCs and select IP configuration and select DHCP settings.

Rahul

Step 1: IP address dynamically created for all PCs.

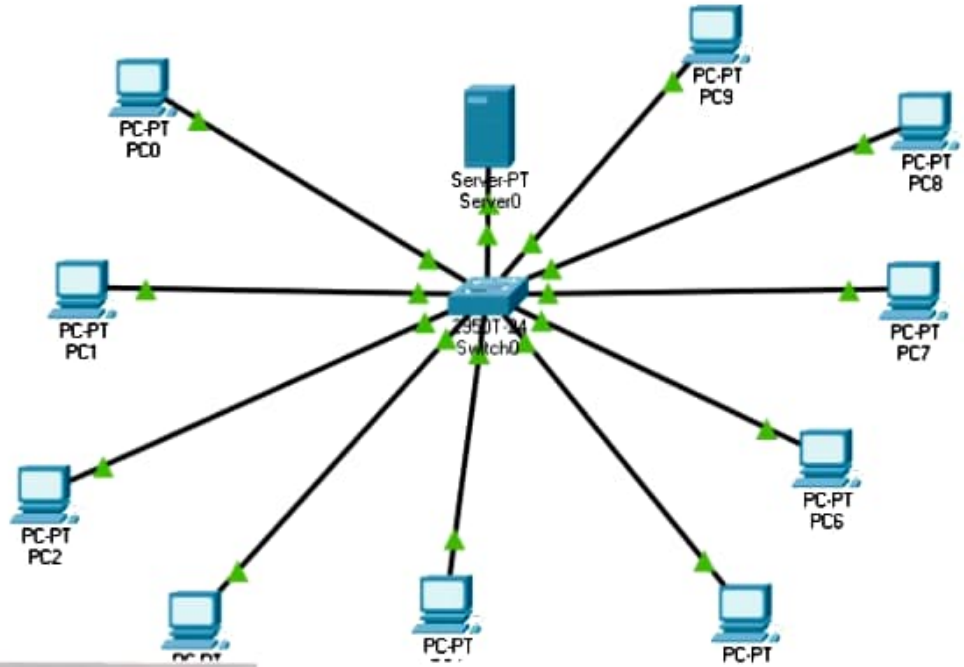
Rahul


Cisco Packet Tracer
File Edit Options View Tools Extensions Window
Logical
Physical
PC9
Physical
Config
Desktop
Programming
Attributes
GLOBAL
Settings
Algorithm Settings
INTERFACE
FastEthernet0
Bluetooth
FastEthernet0
Port Status
On
Bandwidth
100 Mbps
10 Mbps
Auto
Duplex
Half Duplex
Full Duplex
Auto
MAC Address
000A.F38D.D22E
IP Configuration
DHCP
Static
IPv4 Address
198.162.0.10
Subnet Mask
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address:
FE80::20A:F3FF:FE8D:D22E
Top
[Root]
05:10:30
Time: 00:10:05
Realtime
Simulation
Type
Color
Time(sec)
Periodic
Num
Edit

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 971, y: 172 [Root] 05:14:30



Time: 00:10:13

Realtime Simulation

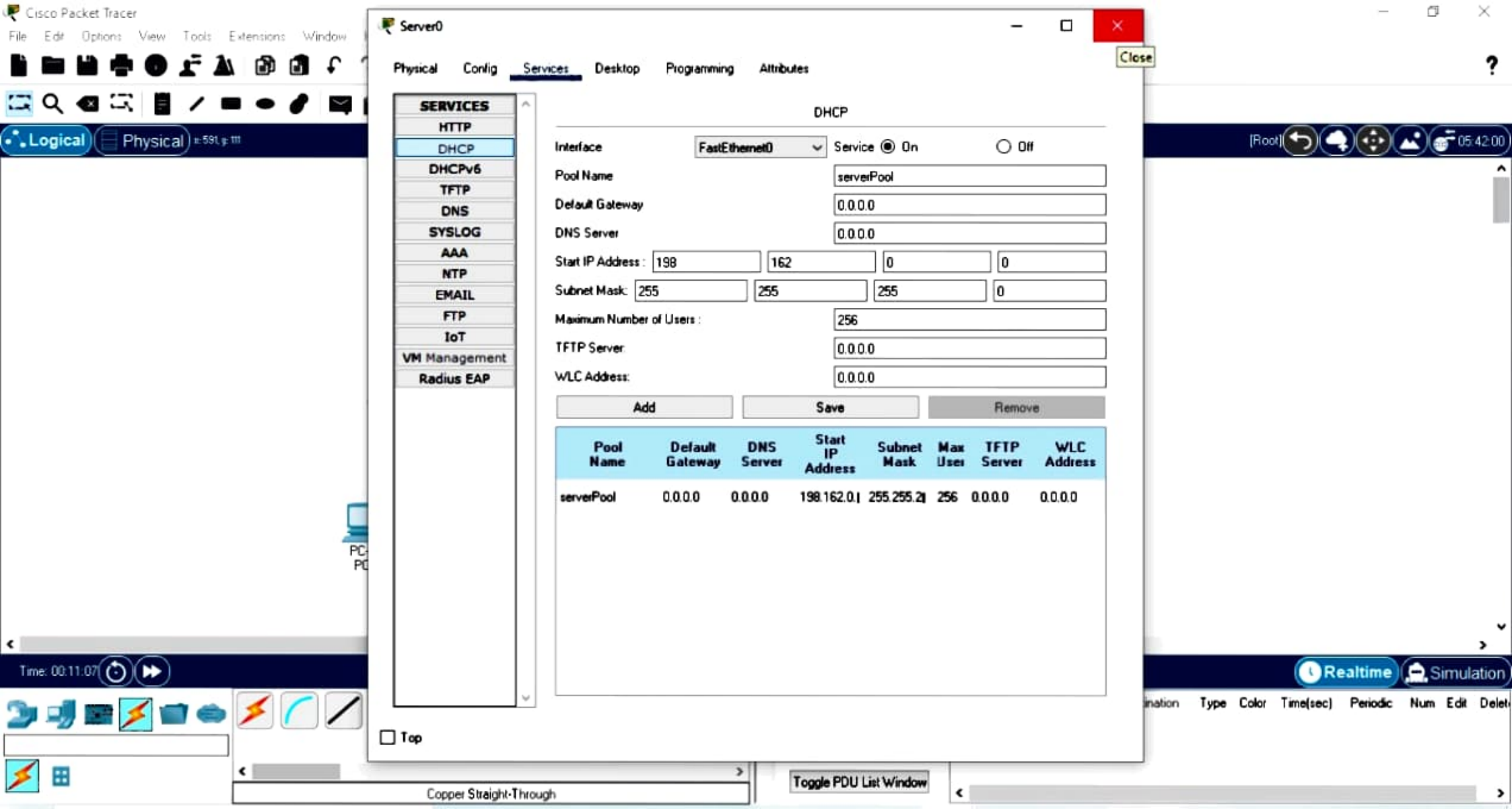
Copper Straight-Through

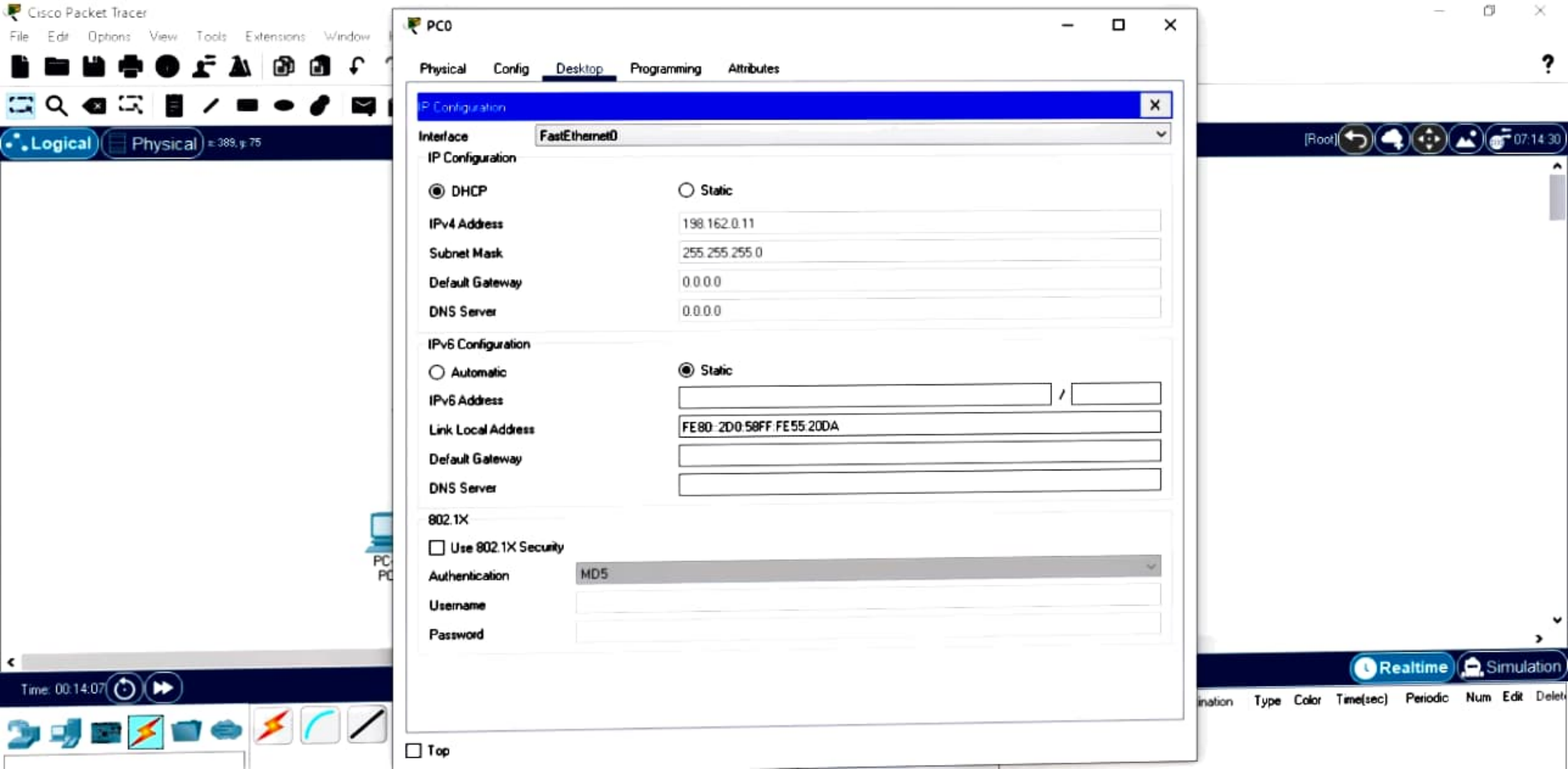
Scenario 0

New Delete

Toggle PDU List Window

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

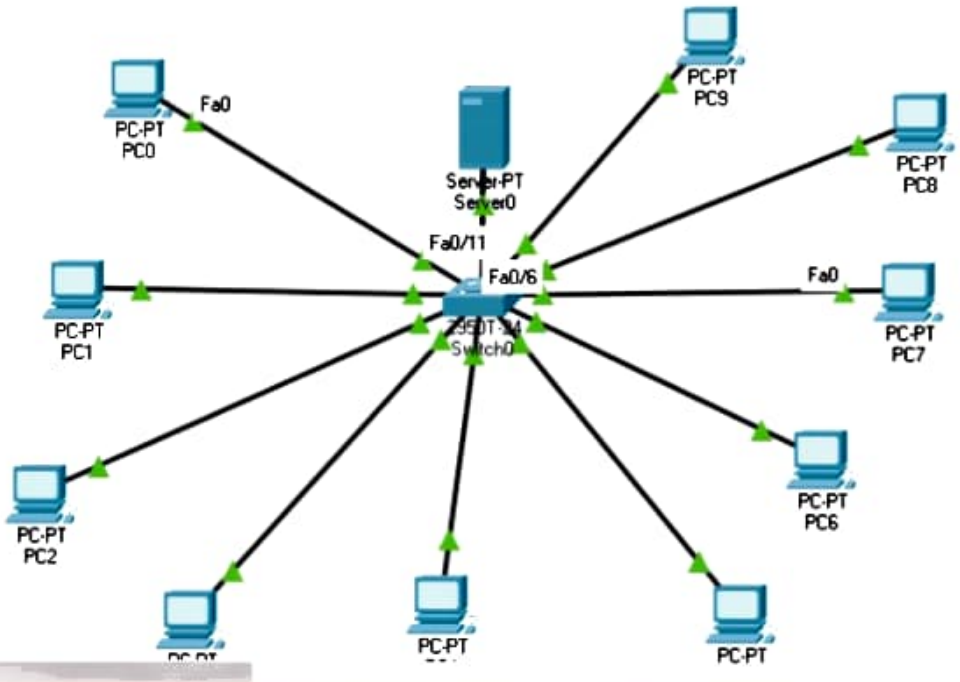

Cisco Packet Tracer
File Edit Options View Tools Extensions Window
Logical
Physical
Server0
Physical Config Services Desktop Programming Attributes
Close
SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP
IoT
VM Management
Radius EAP
DHCP
Interface FastEthernet0 Service On Off
Pool Name serverPool
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
Start IP Address : 198 162 0 0
Subnet Mask: 255 255 255 0
Maximum Number of Users : 256
TFTP Server 0.0.0.0
WLC Address: 0.0.0.0
Add
Save
Remove
Pool Name
Default Gateway
DNS Server
Start IP Address
Subnet Mask
Max User
TFTP Server
WLC Address
serverPool 0.0.0.0 0.0.0.0 198.162.0.1 255.255.2 256 0.0.0.0 0.0.0.0
Top
Time: 00:11:07
Realtime
Simulation
Type Color Time(sec) Periodic Num Edit
Copper Straight-Through
Toggle PDU List Window


Cisco Packet Tracer
File Edit Options View Tools Extensions Window
Logical
Physical
PC0
Physical Config Desktop Programming Attributes
IP Configuration
Interface FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address 198.162.0.11
Subnet Mask 255.255.255.0
Default Gateway 0.0.0.0
DNS Server 0.0.0.0
IPv6 Configuration
Automatic
Static
IPv6 Address
Link Local Address FE80::2D0:58FF:FE55:20DA
Default Gateway
DNS Server
802.1X
Use 802.1X Security
Authentication MD5
Username
Password
Top
[Root]
07:14:30
Realtime
Simulation
Time: 00:14:07
Type Color Time(sec) Periodic Num Edit

Cisco Packet Tracer

File Edit Options View Tools Extensions Window Help

Logical Physical x: 725, y: 428 [Root] 08:20:00



Time: 00:16:15 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
	Successful	PC0	PC4	ICMP		0.000	N	0	(edit)	(delet