

Name: Nipurn Khatni

Course: MCA

Section: A

University Rollno: 2001095

Subject Name: Computer Networks

Subject Code: TMC-203

Q1

Problem Statement: There is an organization A with multiple departments. Design a network for the HR department and the size of the department is 10 users.

Objective: Creating a network to ~~comp~~ communicate between users in a department.

Description: Dynamic host configuration Protocol is used on Internet Protocol (IP) networks for automatically assigning IP addresses

Components used: 1 server, 6 PCs, 1 Switch.

STEP 1: Add a 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

(At the end)

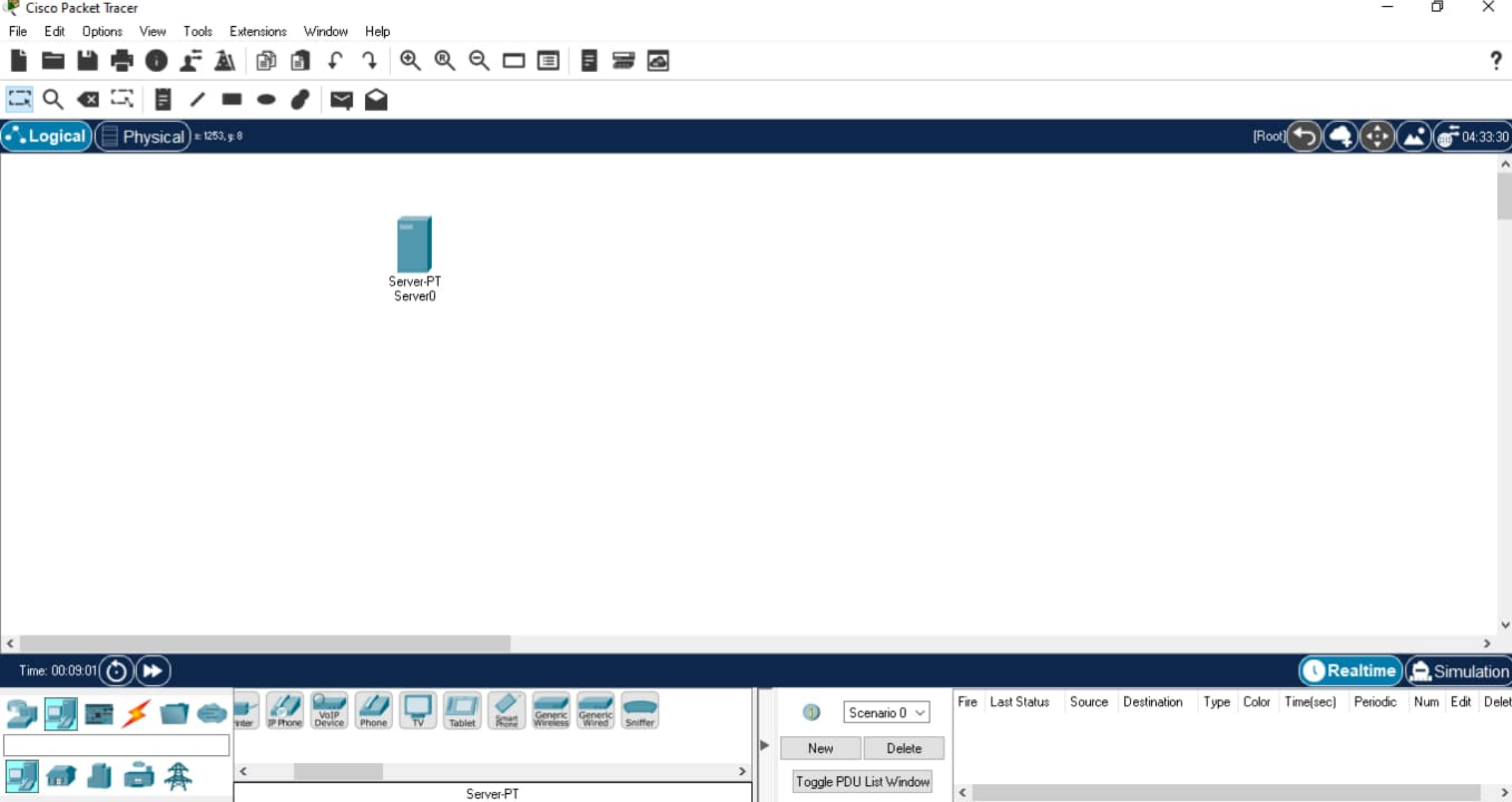
option in the left menu, and turn on fast Ethernet services on.

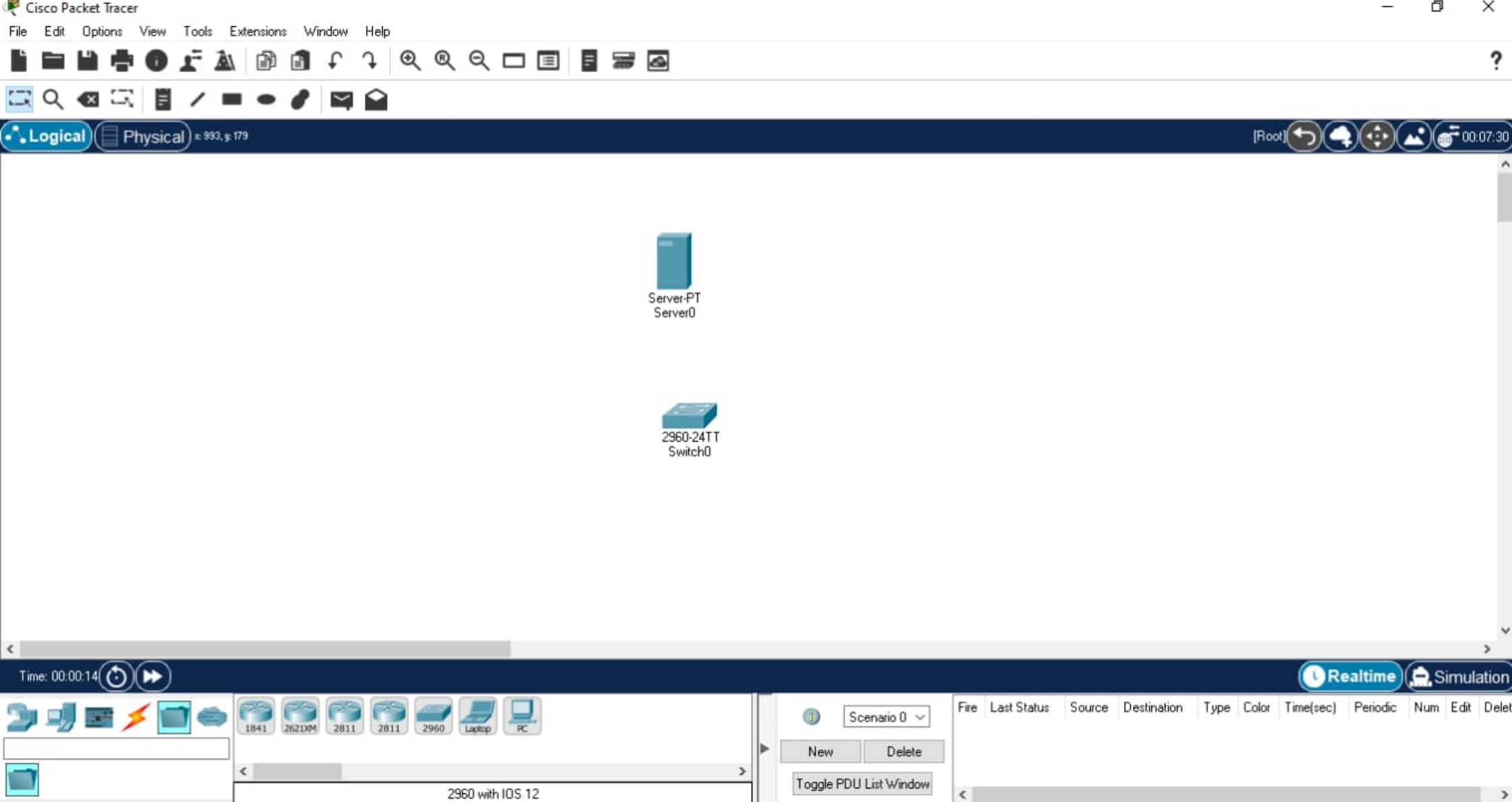
STEP 5: Save the DHCP setting created

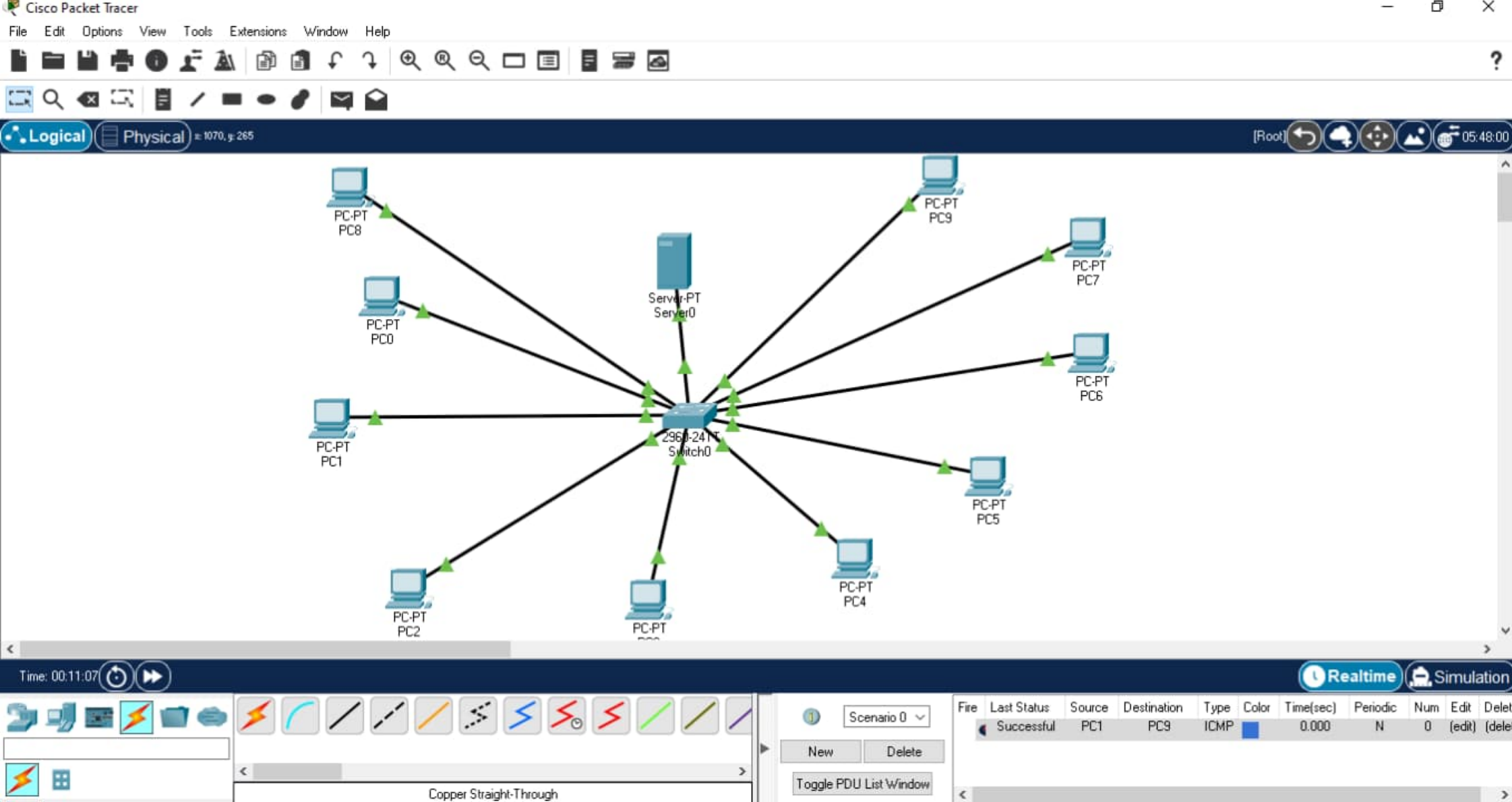
STEP 6: Now go to PCs and select IP configuration and select DHCP settings.

STEP 7: IP address dynamically created for all PCs.

Qwerty







PC1

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 192.168.0.5

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.1

DNS Server: 1.0.0.1

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::20A:41FF:FE0C:2332

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

Username:

Password:

☐ Top

Server0

Physical Config **Services** Desktop Programming Attributes

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: 192.168.0.1

DNS Server: 1.0.0.1

Start IP Address: 192 168 0 0

Subnet Mask: 255 255 255 0

Maximum Number of Users: 255

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	192.168.0.1	1.0.0.1	192.168.0.1	255.255.255.0	255	0.0.0.0	0.0.0.0

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