



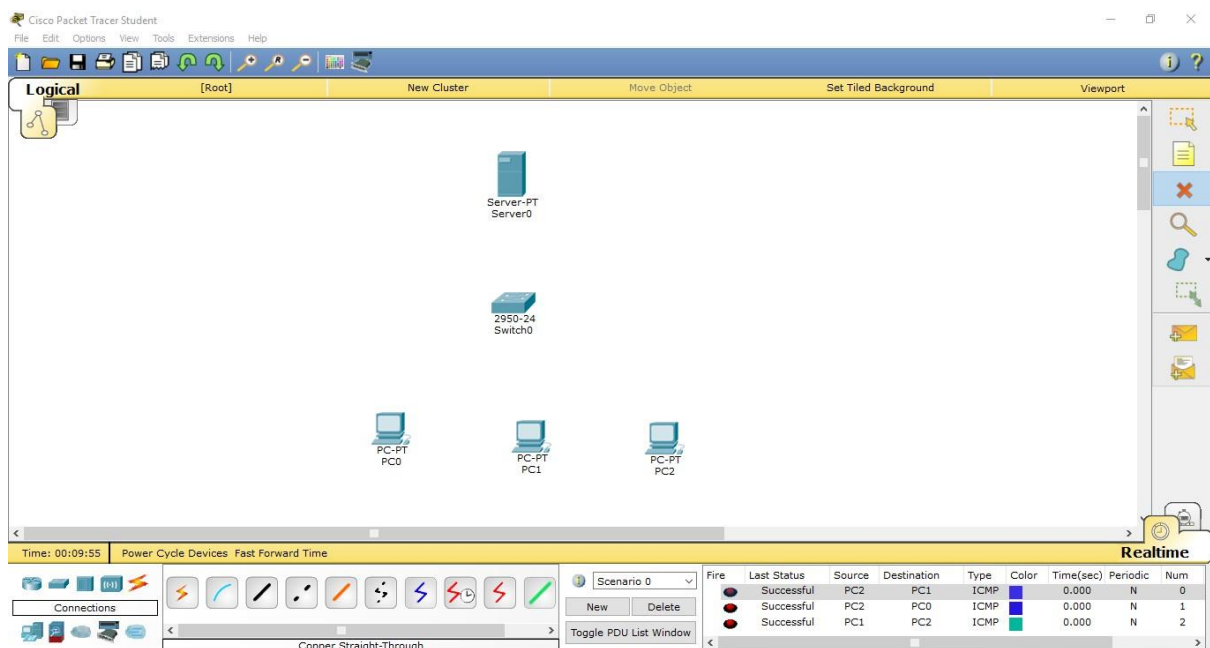
# Lab 4(A) Computer Networks

**Object:** Configuring DHCP server and DHCP client.

**Software:** Cisco Packet Tracer Student Version.

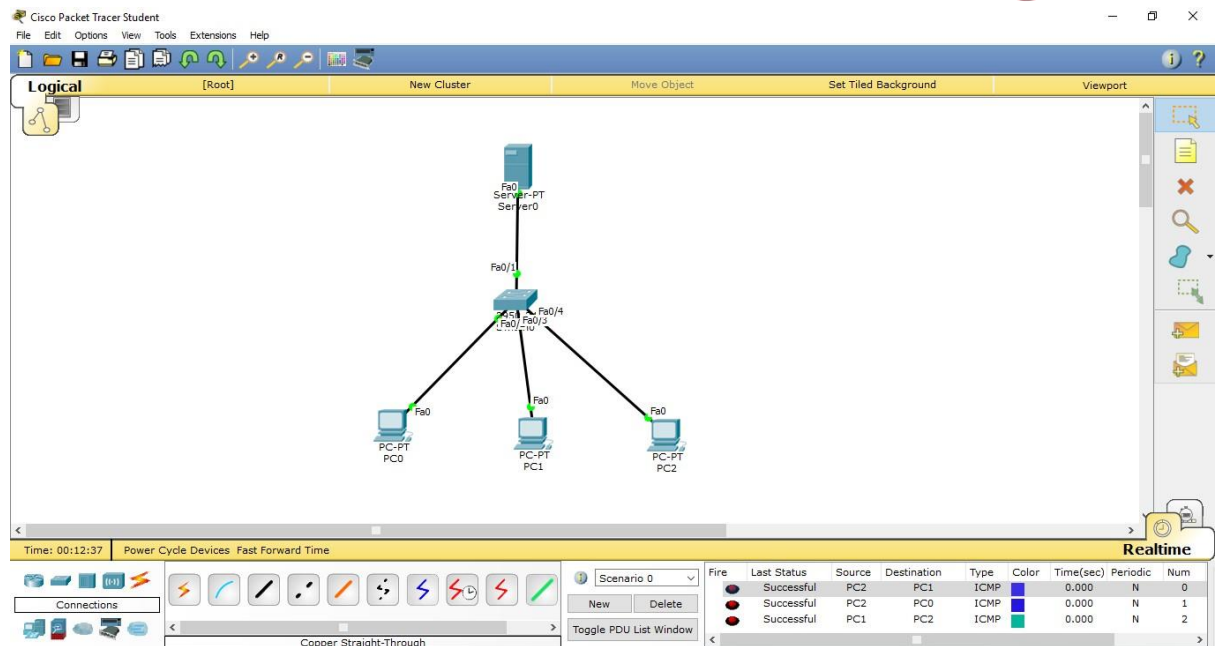
**Procedure:**

**Step 1:** Select 1 Server, 1 switch and 3 End PCs.



**Step 2: Connect Device.**

- Connect server to switch and switch to all end PCs through a Copper straight-through wire.



### Step 3: Configuring DHCP

- Click on Server0 and on the services tab select DHCP, turn on the service give IP 192.168.0.2, Subnet Mask 255.255.255.248, set Maximum Number of Users 6 and then click add.
- After that go to Config tab select FastEthernet0 and select the DHCP radio button.



Server0

Physical Config Services Desktop Software/Services

**SERVICES**

HTTP  
DHCP  
DHCPv6  
TFTP  
DNS  
SYSLOG  
AAA  
NTP  
EMAIL  
FTP

**DHCP**

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

Start IP Address: 192 168 0 2

Subnet Mask: 255 255 255 248

Maximum number of Users: 6

TFTP Server: 0.0.0.0

Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP
server...	0.0.0.0	0.0.0.0	169.254.0.0	255.255.0.0	6	0.0.0.0

Server0

Physical Config Services Desktop Software/Services

**GLOBAL**

Settings  
Algorithm Settings  
**INTERFACE**  
FastEthernet0

**FastEthernet0**

Port Status: ☒ On

Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address: 0001.C76B.93EB

IP Configuration

☒ DHCP  
☐ Static

IP Address: 169.254.147.235

Subnet Mask: 255.255.0.0

IPv6 Configuration

☐ DHCP  
☒ Auto Config  
☐ Static

IPv6 Address: [Empty Field]

Link Local Address: FE80::201:C7FF:FE6B:93EB

- After that click each PC, select Config tab click on FastEthernet0 then select DHCP radio.

#### Step 4: Check Connection Between Devices.

Here the server automatically provide or set the IPs of End Devices. So to check the connect add simple PDU from device to device if successfully delivered means the

- connections are established

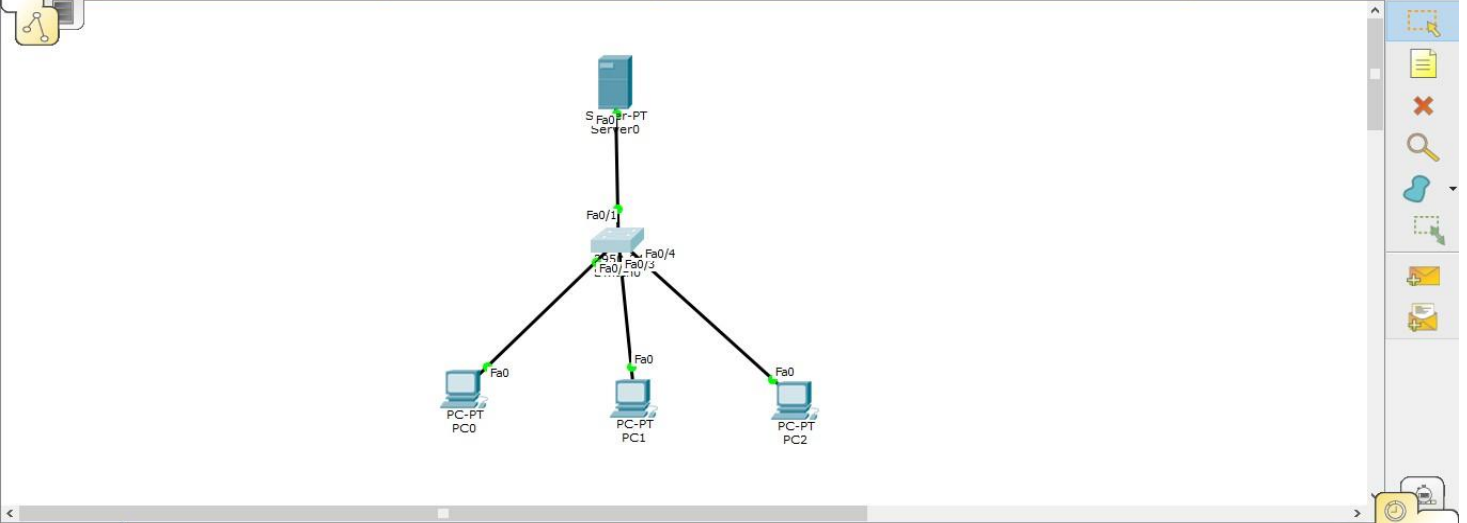


Cisco Packet Tracer Student

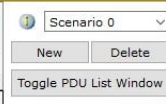
File Edit Options View Tools Extensions Help



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



Time: 00:27:24 Power Cycle Devices Fast Forward Time



Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num
	Successful	PC2	PC1	ICMP	Blue	0.000	N	0
	Successful	PC2	PC0	ICMP	Blue	0.000	N	1
	Successful	PC1	PC2	ICMP	Green	0.000	N	2