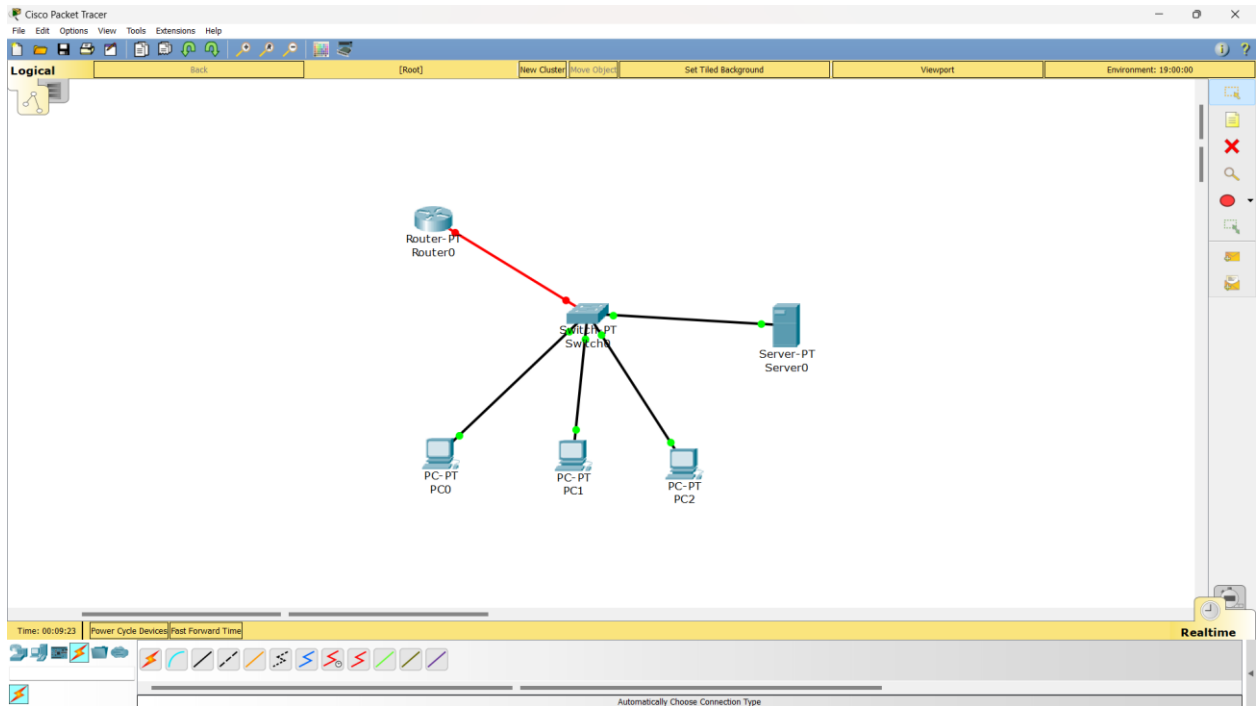


LAB 5

Aim of the program

Configuring DHCP within a LAN in a packet Tracer

Topology



Procedure

Server0

Physical Config Services Desktop Attributes Custom Interface

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoE
- VM Management

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 10.0.0.2

DNS Server: 10.0.0.1

Start IP Address : 10 0 0 3

Subnet Mask: 255 0 0 0

Maximum number of Users : 512

TFTP Server: 10.0.0.1

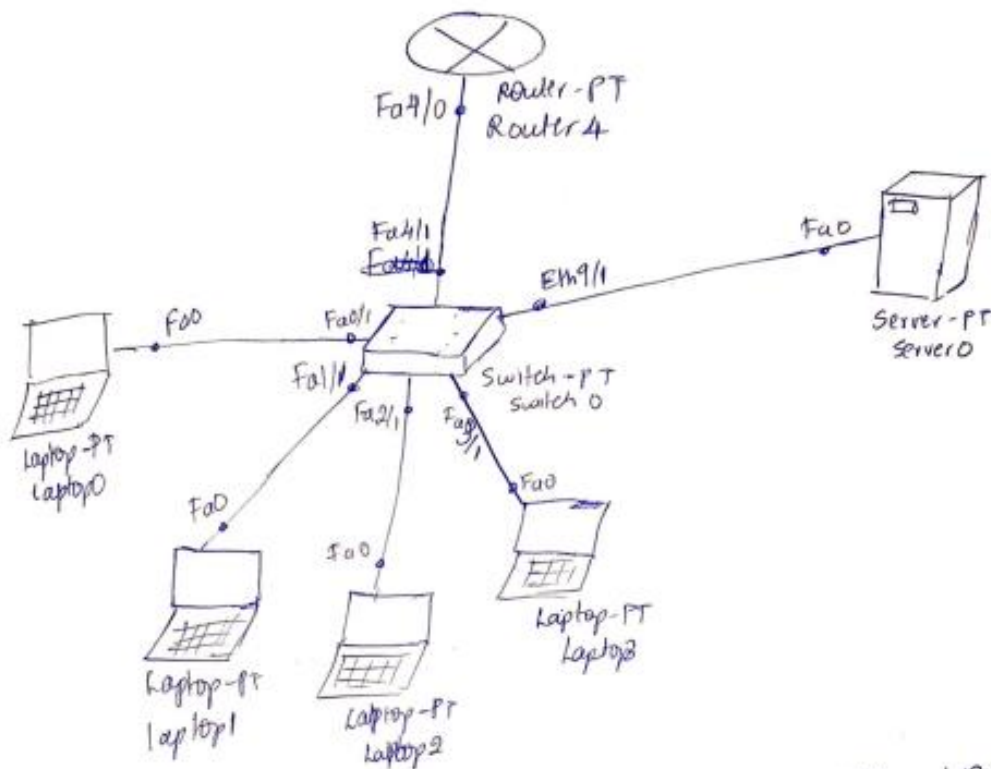
Add Save Remove

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server
serverPool	10.0.0.2	10.0.0.1	10.0.0.3	255.0.0.0	512	10.0.0.1

Lab-6

8-12-22

Configure a DHCP ~~server~~ within a LAN in packet tracer.



Create a topology of 4 end devices, 1 switch, 1 Router and a server

connect the switch to the two end devices.
connect the switch to the router and a server

Configuration of router.

- Go to config, In the interface menu click on FastEthernet 4/0
- Add ip address as 10.0.2.1 and turn it on

Configuration of server:

- Go to config, In the interface menu click on fastEthernet

→ Configure the IP address as 10.0.0.2 and turn it on.

Server config:

→ Go to services

Click on DHCP and turn the service on

Default Gateway as 10.0.0.1

DNS server as 10.0.0.2

Start IP address as 10.0.0.3

Set the TFTP server as 10.0.0.2

Save it and exit

End device config

click on end device

Go to Desktop

Go to IP config

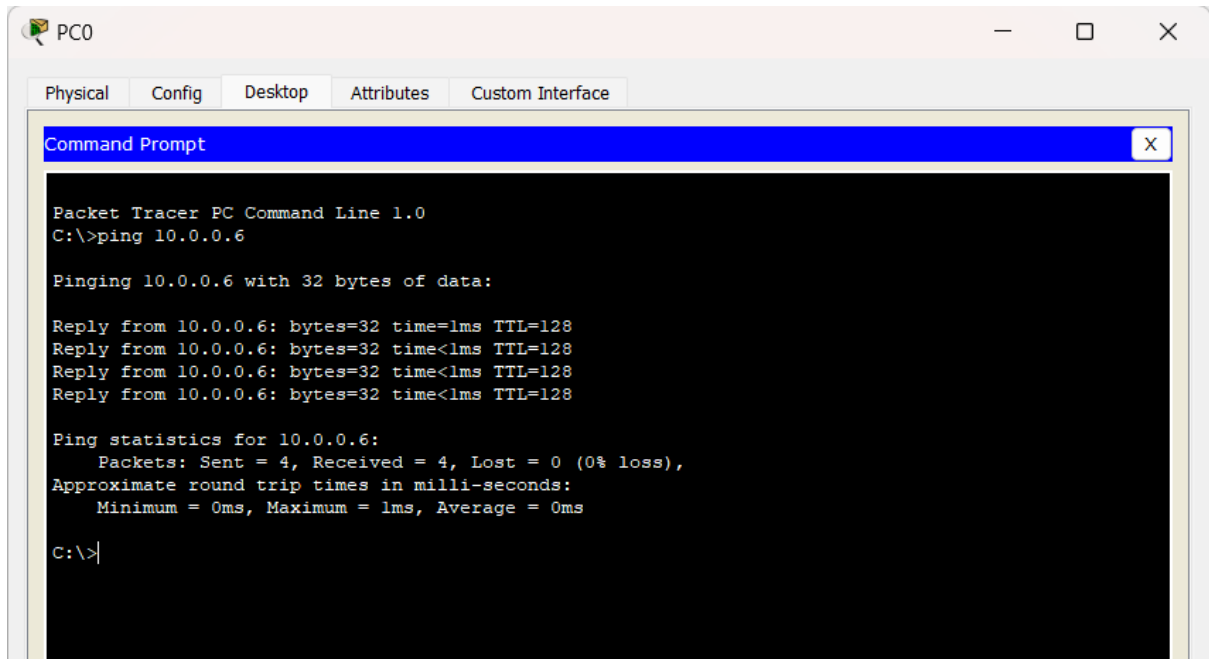
Change the IP config from static to ~~static~~ DHCP

Observation:

The IP address gets assigned dynamically.

R.
8/12/22

Output



The image shows a screenshot of a Packet Tracer PC configuration window for a device named PC0. The window has tabs for Physical, Config, Desktop, Attributes, and Custom Interface. The Desktop tab is active, displaying a Command Prompt window. The Command Prompt shows the execution of the command 'ping 10.0.0.6'. The output indicates that the ping was successful, with 4 packets sent and received, 0% loss, and round trip times of 0ms, 1ms, and 0ms.

```
Packet Tracer PC Command Line 1.0
C:\>ping 10.0.0.6

Pinging 10.0.0.6 with 32 bytes of data:

Reply from 10.0.0.6: bytes=32 time=1ms TTL=128
Reply from 10.0.0.6: bytes=32 time<1ms TTL=128
Reply from 10.0.0.6: bytes=32 time<1ms TTL=128
Reply from 10.0.0.6: bytes=32 time<1ms TTL=128

Ping statistics for 10.0.0.6:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>
```