

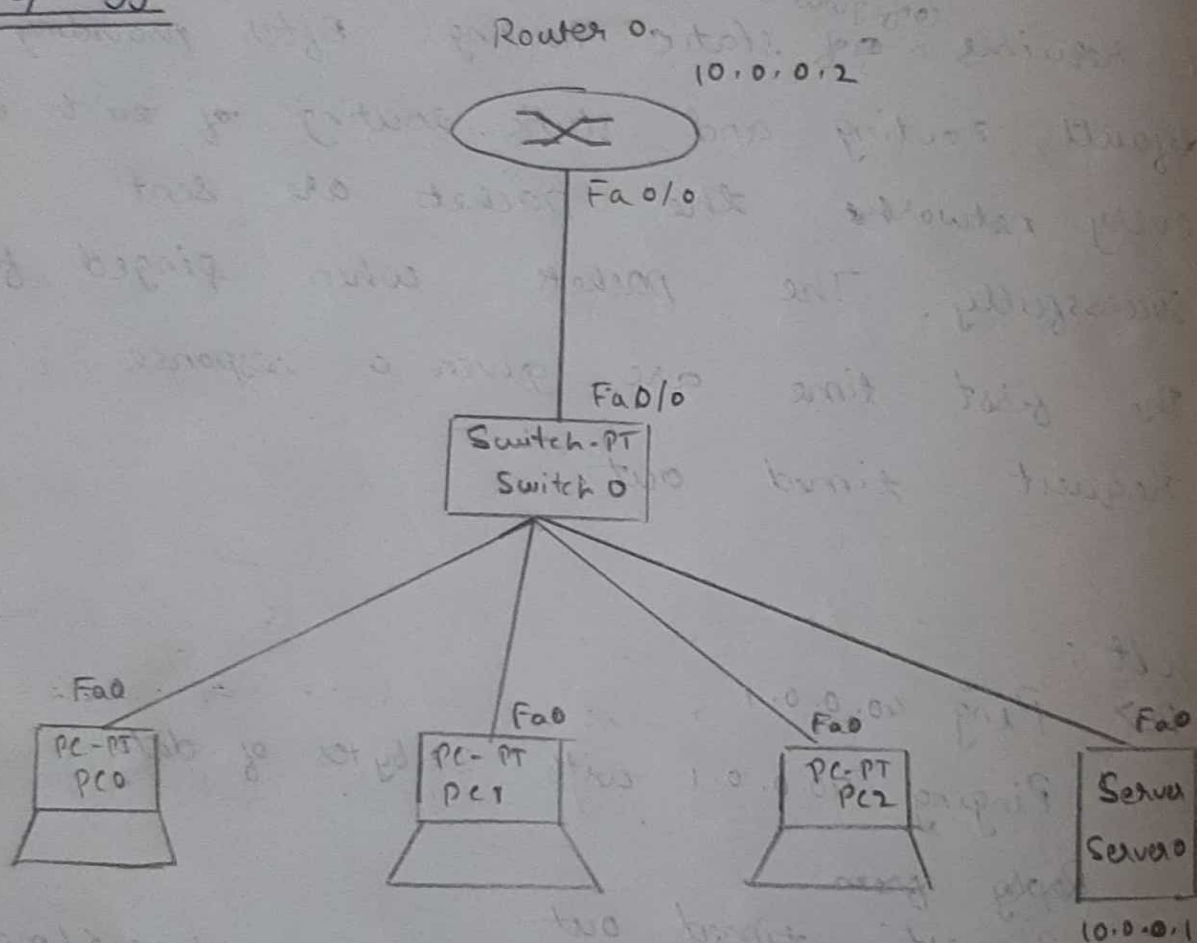
11/12/22

Lab 4

DHCP

Aim: Configuring DHCP within LAN in a Packet Tracer

Topology:



Procedure:

- Add 3 PC's, 1 server, 1 switch and 1 router to workspace. Connect PC, server to switch by using copper straight-through wire.
- Configure the server by giving the IP address and gateway.
- Now go to router and open CLI and follow the commands

Router > enable

Router # config t

Router (config) # interface Fast Ethernet 1/0

Router (config-if) # ip address 10.0.0.2 255.0.0.0

Router (config-if) # no shut

Router (config-if) # exit

Router (config) # exit

Router # exit

Router >

- Now go to services in server 0 and go to DHCP. Change service from off to on. Now give static IP address 10.0.0.3 and give all servers as 10.0.0.1

- Now open IP configuration in desktop change IP configuration from static to DHCP. Follow the same for all other PC's

- Now ping can be performed.

Learning Outcome:

Server automatically provides IP address for all the PC's

Follows below procedure

D - Discover

O - offer

R - Request

A - Acknowledgement

Result: Ping 10.0.0.5

Pinging 10.0.0.5 with 32 bytes of data

Reply from 10.0.0.5 : bytes = 32 time = 0ms TTL = 128

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Ping Statistics for 10.0.0.5

Packets : Sent = 4 , Received = 4 , Lost = 0 (0% loss)

Approximate round trip time in milliseconds:

Minimum = 0 ms , Maximum = 0 ms , Average = 0ms

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