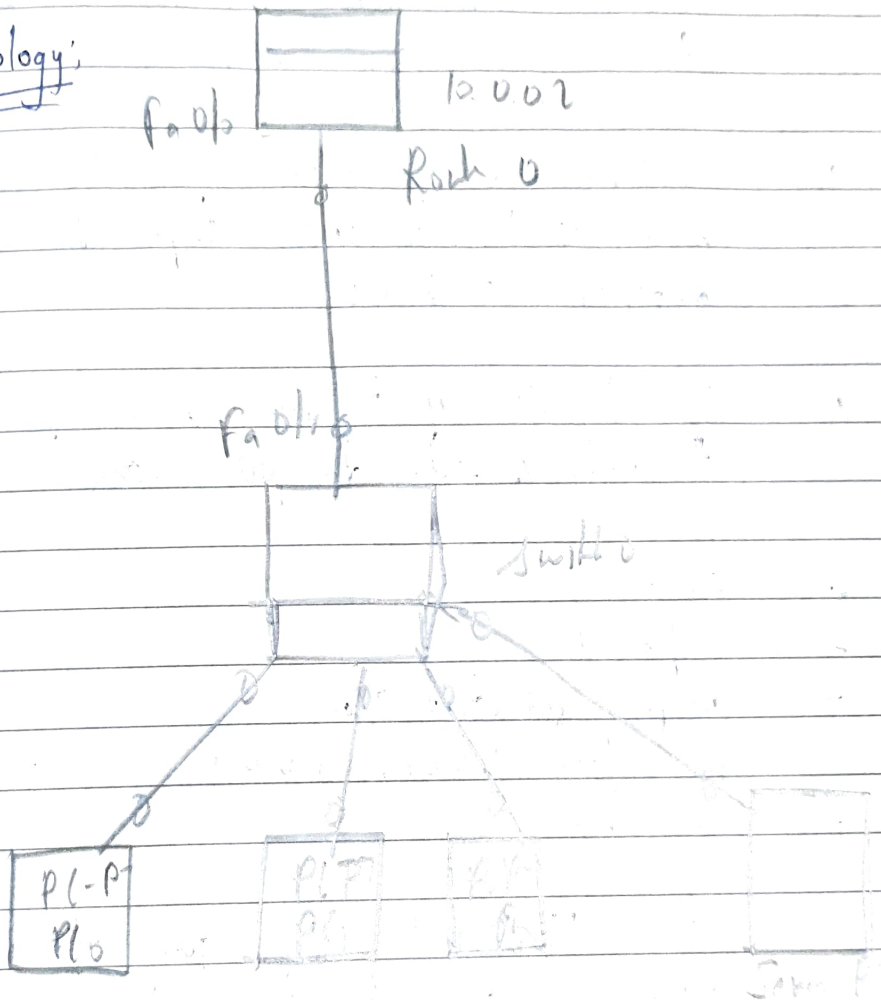


Lab 4

Date: 12/12/22
Page: _____

Aim: Configure DHCP within a LAN in a packet tracer.

Topology:



4)

Procedure:

- 1) Place a generic router, a generic switch, 3 generic PCs, and a generic server in the workspace as shown in the given topology.
- 2) Connect the PCs to the switch through an access link.

3) Connect the server to the switch & cable to the router using the straight through

4) Place a note below the server with the ip address as 10.0.0.1,

5) Configure the ip address of the server as 10.0.0.1 and configure the gateway as 10.0.0.1

6) Open the CLI of the router and configure the router & enter the following commands

- enable
- configure t
- interface fast ethernet 0/0
- ip address 10.0.0.1 255.0.0.0
- no shut

The light with the green up with 4 arrows for the server. After some time, the arrow color also changes to green.

Now click on the server

Open the services to click on DHCP.

Turn the switch ON

sd def
Dns
TFTP
Kepe
shd
After
Now
Co
91
10
be
at
Sin

set default gateway to 10.0.0.1
DNS server as 10.0.0.1 (same as IP address)
TFTP server as 10.0.0.1 (same as IP address)
Keep the static IP address as 10.0.0.2
subnet mask as 255.0.0.0. At
After the procedure, save the config.
Now, click on PCV and under the desktop for
Go to IP configuration & click on DHCP.
If there are no errors, it will show
'DHCP request successful' and the IP address will
be 10.0.0.3
At

Simulation mode:

Add PCV by selecting the PC & click
on auto configure for right panel.

Recognition mode: Select the PC PC 4:
press the PC is the console prompt.
Once the ports status and successful
displayed, we can accept this with PC
or with.

Observation:

Learning Outcomes:

The semi automatic sets the IP
address & subnet, & gateway to all the PCs
& IP address is allocated in DHCP pool.

Result

1) PC > Ping 10.0.0.5

Ping 10.0.0.5 : 32 bytes of data:

Reply from 10.0.0.5: bytes = 32 time = 0.571 ms

Reply from 10.0.0.5: bytes = 32 time = 0.711 ms

Reply from 10.0.0.5: bytes = 32 time = 0.571 ms

Reply from 10.0.0.5: bytes = 32 time = 0.711 ms

ping statistics for 10.0.0.5:

Packets: sent = 4, Received = 4, lost = 0 (0% loss)

Approximate round trip times in milliseconds:

Minimum = 0.5, Maximum = 0.7, Average = 0.6

2) PC > Ping 10.0.0.4

Ping 10.0.0.4 : 32 bytes of data:

Reply from 10.0.0.4: bytes = 32 time = 0.571 ms

Reply from 10.0.0.4: bytes = 32 time = 0.711 ms

Reply from 10.0.0.4: bytes = 32 time = 0.571 ms

Reply from 10.0.0.4: bytes = 32 time = 0.711 ms

Ping statistics for 10.0.0.4:

Packets: sent = 4, Received = 4, lost = 0 (0% loss)

Approximate round trip times in milliseconds:

Min = 0.5, Max = 0.7, Avg = 0.6

12/12/22