

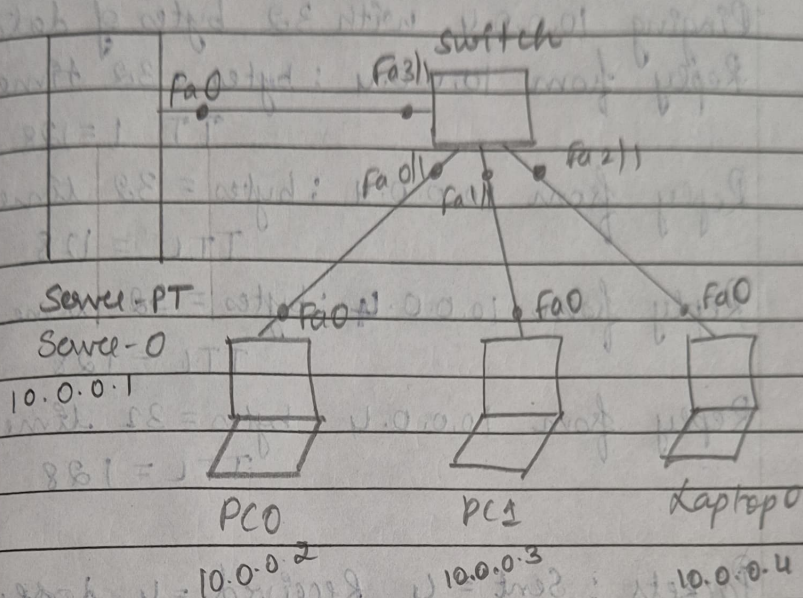
Experiment-5.

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Aim : Configure DHCP within LAN and outside LAN

Topology :



Procedure :

- I Select generic server-PT
- II Select generic PC0, PC1, Laptop-PT Laptop0, 1 Switch, ~~Laptop 1, Laptop 2, Laptop 3~~ and a ~~router 0~~
- III All are connected used Automatically choose Connection Type
- IV Click on server-PT and give the IP address: 10.0.0.1
Subnet Mask: 255.0.0.0
Default Gateway: 10.0.0.0
- V Select DHCP and set service as on. Set the pool Name as switch one, default gateway as 10.0.0.0, maximum number of users as 100 and start IP address as 10.0.0.3. Click Add.

- VI Click on each PC, navigate to IP configuration and select DHCP.
- VII Ping from one device to another

Observation :-

Pinging 10.0.0.4 with 32 bytes of data

Reply from 10.0.0.4 : bytes = 32 time = 1ms
TTL = 128

Reply from 10.0.0.4 : bytes = 32 time = 0ms
TTL = 128

Reply from 10.0.0.4 : bytes = 32 time = 0ms
TTL = 128

Reply from 10.0.0.4 : bytes = 32 time = 0ms
TTL = 128

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

Procedure :-

- I Select server, set IP Address as 10.0.0.2, default gateway as 10.0.0.1, DNS server as 0.0.0.0.
- II Navigate to config, select DHCP, modify default gateway as 10.0.0.1, start IP address as 10.0.0.0 (switch 1)
- III Name a new pool as switch #20, Set start IP as 20.0.0.3, default gateway as 20.0.0.1, Maximum number of use as 100, Set gateway in setting as 10.0.0.1
- IV Select router, navigate to CLI and enter the following commands.

no

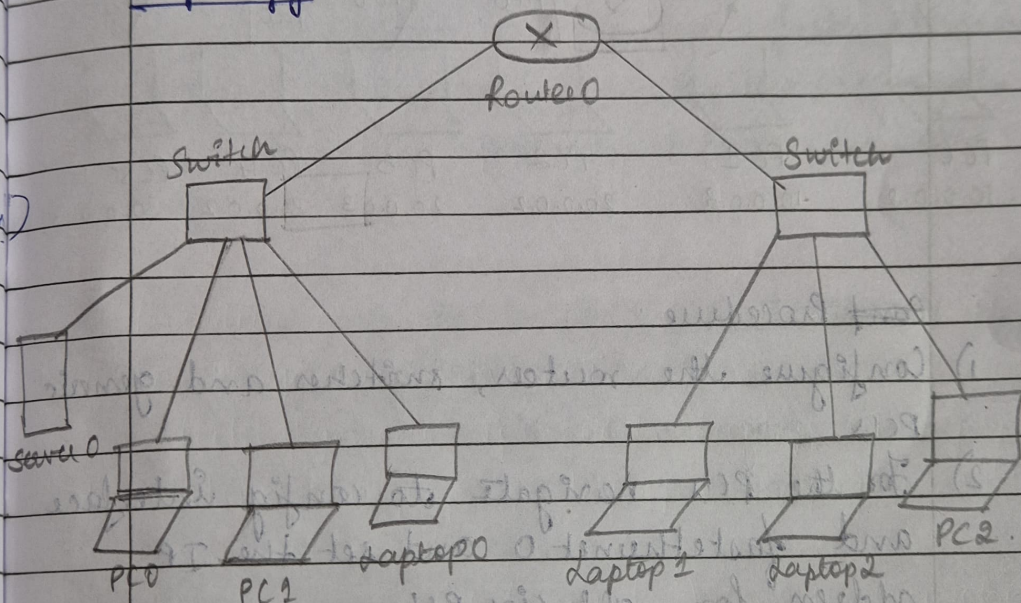

```
enable
conf terminal
interface fastEthernet u/o
ip address 10.0.0.1 255.0.0.0
ip helper address 10.0.0.2
no shutdown
exit
```

Repeat the same

Observation

~~The IP address is set for all end~~

Topology



Observation

~~The IP address is set for all end devices.~~

20/11/24