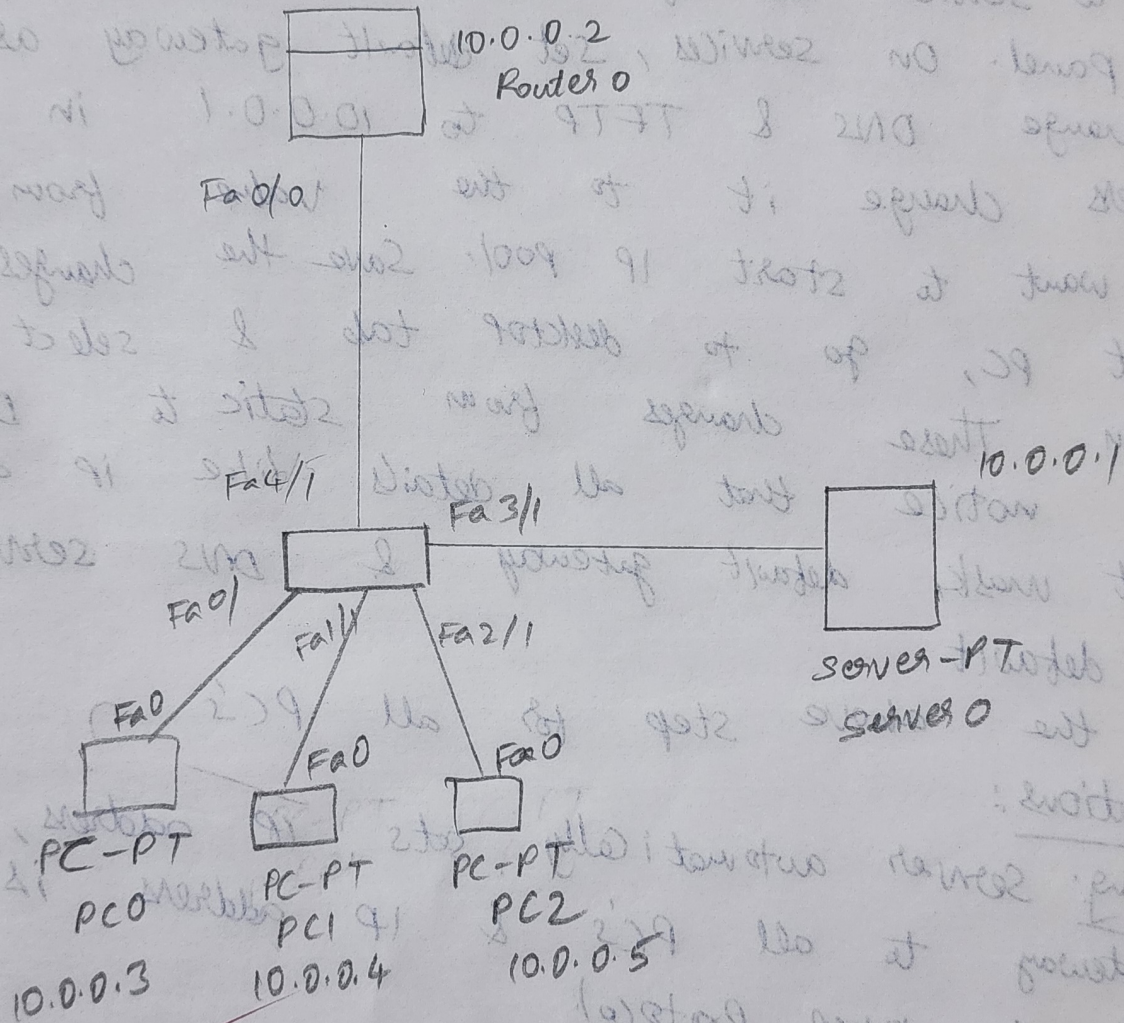


1/12/22

Aim: Configuring DHCP within LAN in Packet Tracer

Topology:



- Procedure:
- 1) Place generic router, generic switch, 1 server & 3 PCs into the work station & connect them as: Router to switch & switch to all 3 PCs & Server
 - 2) Open server Config tab, set its IP address & subnet mask, from settings tab set its gateway
 - 3) For server IP address is 10.0.0.1, gateway is 10.0.0.2
 - 4) Open CLI of router \rightarrow no \rightarrow enable \rightarrow config t \rightarrow interface fastethernet 0/0 \rightarrow ip address 10.0.0.2 255.0.0.0
 \downarrow
no shut
 - 5) Go to services tab of server, & select DHCP from left panel. On services, set default gateway as 10.0.0.2 & change DNS & TFTP to 10.0.0.1 in start IP address change it to the value from where you want to start IP pool. Save the changes.
 - 6) Select PC, go to desktop tab & select IP Configuration. These changes from static to DHCP, we can notice that all details like IP address, Subnet mask, default gateway & DNS server is set by default.
 - 7) Do the above step for all PCs

Observations:

Learning: Server automatically sets IP address, subnet mask & gateway to all PCs & IP address is allocated serially in DHCP protocol.

Result: PC > Ping 10.0.0.5
Pinging 10.0.0.5 with 32 bytes of data:
Reply from 10.0.0.5: bytes=32 time=one TTL=128
[3 more times

8/12/22