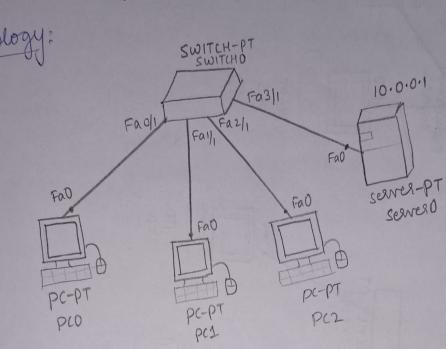
Lab-05 DHCP within LAN and Outside LAN

Aim: To configure DHCP within LAN.



Step 1: Deag and deep 3 pcs, 1 server and 1 switch to the workspace and connect them as shown in the above topology.

Step2: Set the ip address of server as 10.0.0.1 and in services tab, tuen on the DHCP and cleate a serverpool star with start address as 10.0.0.2 and sawe.

step3: In all the pc's go to desktop - Ip configur -ation and turn on DHCP, the ip address will be assigned as 10.0.0.2, 10.0.0.3 etc., These ip addresses are provided by the server & through DHCP protocol.

procedure: step 4: To the previous topology, connect 2 router 2 switches and 4 pcs as shown in above topologyand set the gateway of seever as 10.0.0.2! Step 5: Configure the router 0 by using following commands noutel > enable hould # config t nouter (config) # interface jast ethelnet 4/0 nouter (veryig-i6) # ip address 10.0.0.25 255.0.0.0 houter (config-if) # no shut Souted (config-if) # Exit houter (config) # interface pastethernet 0/0 houtel (config-if) # ip address 20.0.0.1 215.0.0.0 routed (nonfig-if) # no shut Souter (config-ig) # Exit souter (config) # interpale serial 2/0 nouter (config-if) # ip address 30.0.0.25 255.0.0.0 houter (config-ig) # no shut souter (config) # Step 6; configure the router 1 by using following commande routel > enable soutes # config + nouter (config) # interpare serial 2/0 router (config-if) # ip address 30.0.0.26 255.0.0.0 houtel (config-ig) # no shut lowfel (config-ig) # Exit Soutel (config) # interface fastethernet 0/0 houter (config-if) # ip adoless 40.0.0.25 Souter (config-ig) # no shut Souter (config-ig) # Exit

Step7: Since lowter0 knows only 10.0.0.0, 20.0.0.0 30.000 networks, we have to perform slaving souting to connect with 40.0.0.0 retwork by using following commands. routel > enable router # config t souter (config)-# ip souter 40.0.0.0 211.0.0.0 300, router (conjig) # Exit. Step 8: Pol souter 1 perform default routing by using following commands. rower 1 soutel > enable routel# conjigt nouter (config) + ip soute 0.0.0.0 0.0.0.0 30.0.0.) housel (config) # Exit. configuel step 9: For souters and souters set the ip helps address as Lerver's address. houter 0 nouter (config) # Interface pastethernet 0/0 Louter (config-ib) # ip helper-address 10.0.0.1 houter (config-ig) # Exit housel 1 houter (config) # Interpace pastethernet 0/0 router (config-if) # ip helper-address 10:0:0.1 Routel (config-ij) # Exit. Step 10: create 2 more server pools in the server with starting addresses 20.0.0.2 and 40.0.0. and gateway 10.0.0.25. And cheek all pc's ip configuration window by setting to DHCP.

the dynamic ip's will be assigned

observation: Ip addlesses will be assigned to pcs dynami--cally by the server through DHCP protocol.

