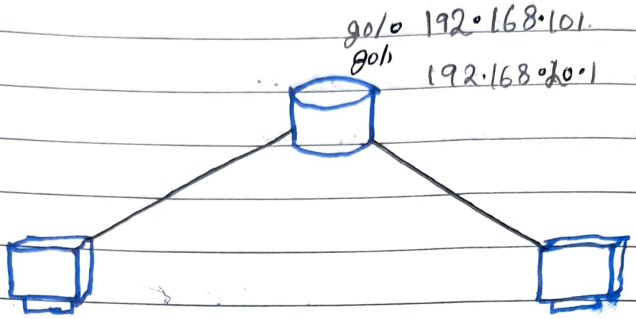
04/11/24 Experiment-10

Aim: a) Internetworking with routers in CISCO Packet Tracer.



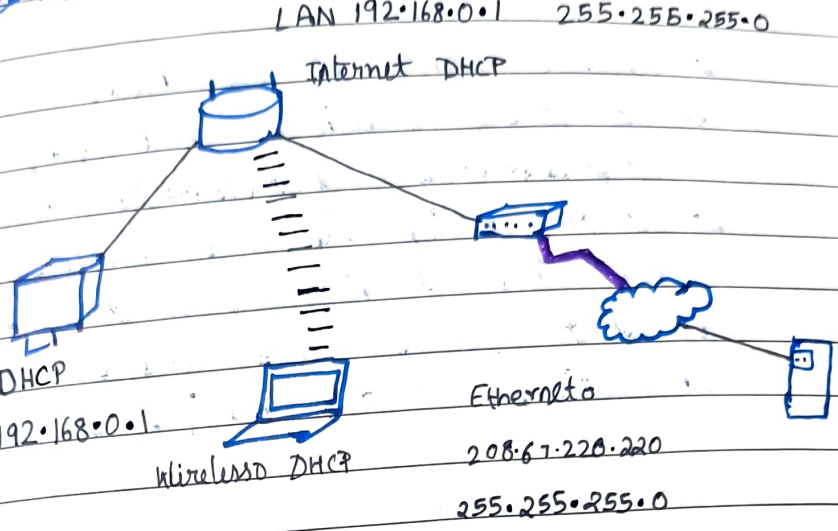
192.168.10.2
255.255.255.0
192.168.10.1

192.168.20.2
255.255.255.0
192.168.20.1

ROUTER-1 CLI

Router > enable
Router# configt
Router(config)# interface g0/0
Router(config-if)# ip address IPv4 Subnet
Router(config-if)# no shutdown
Router(config-if)# interface g0/1
Router(config-if)# ip address IPv4 Subnet
Router(config-if)# no shutdown

b) Design an implement DHCP using wireless router DHCP server and internet cloud.



CONFIGURE WIRELESS ROUTER

1. Go to wireless tab.
2. change network name. (if required)

1. Go to setup tab
2. Go to DHCP and enable it.
3. Add the DNS of cisco server (208.67.220.220)

CONFIGURE LAPTOP

1. Go to physical tab
2. Add the wireless module
3. Go to the wireless application
4. refresh and connect to wireless networks.

CONFIGURE MODEM

Go to Global settings and change name of modem.

CONFIGURE INTERNET CLOUD

1. Change name of the cloud.
2. Go to the physical and add. CLOUD-NM-1-CX and CLOUD-NM-1-FE Modules.
3. Go to config tab and change the connection of Fast-ethernet to cable
4. Go to cable and add a connection from coaxial to Ethernet.

CONFIGURE SERVER

1. Change name of server to cisco.com.
2. Configure the static IP address of server.

DHCP	DNS
1. Go to services	1. Go to Services
2. Select DHCP and turn it on	2. Select DNS and turn it on
3. Set start ip address and subnet mask and add	2. Give domain name and IP address and add it.

OBSERVATION:

1. Write down the key features of configuring wireless router and DHCP server.

ans Wireless:
1. changing name of router
2. adding password to router
3. Enabling DNS route to the router.

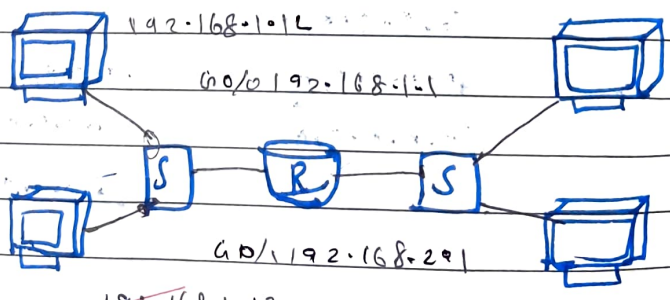
DHCP server:
1. Adding default IP to the server
2. Enabling DHCP service in the server.
3. Adding service.

2. What is significance of DHCP server in network?

ans It automates the role of assigning IP addresses and other network config parameters.

3. Design an internetwork in your lab using switch, router and Ethernet cable. Also assign IPs.

ans



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