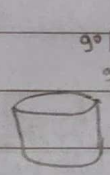
23/10/24

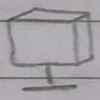
PRACTICAL - 10 A

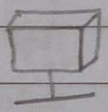
AIM:

a) Internetworking with routers in CISCO PACKET TRACER

b) Design & configure a simple internetwork using a router







192.168.10.2
255.255.255.0
198.168.10.1

192.168.20.2
255.255.255.0
192.168.20.1

ROUTER-1 CLI

Router > enable
Router # configt
Enter configuration commands, one per line. End with CNTL/z
Router(config)# interface Fast Ethernet 0/0
Router(config-if)# ip address 192.168.10.1 255.255.255.0
Router(config-if)# no shutdown

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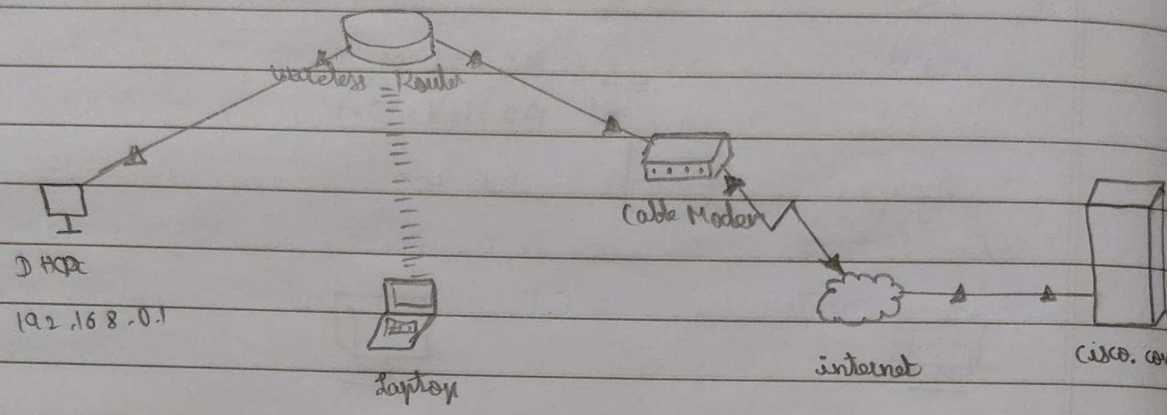
PRACTICAL - 10 B

AIM:

b) Design and configure an internetwork 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 & 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 & connect to wireless network.

CONFIGURE MODEM

Go to Global settings & 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 - ICFE Module.
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 the cloud.~~
2. ~~Go to the physical and add.~~
1. Change name of server to cisco.com.
2. Configure the state IP address of server.

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

OBSERVATION:

1) write down the key features of configuring wireless router & DHCP server.

WIRELESS

1. Changing name of router
2. Adding Password to router.
3. Enabling DNS route to the router.

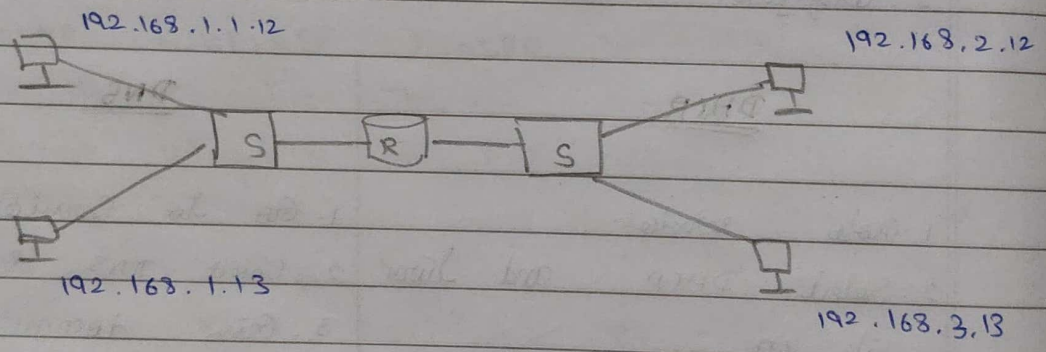
DHCP servers

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.

* It automates the role of assigning
* IP addresses & other network config parameters

3. Design an internetwork in your lab using switch, router & Ethernet cable. Also assign IP's



RESULT:

Thus configuration of internetwork using wireless router, DHCP server & internet cloud is done successful.