

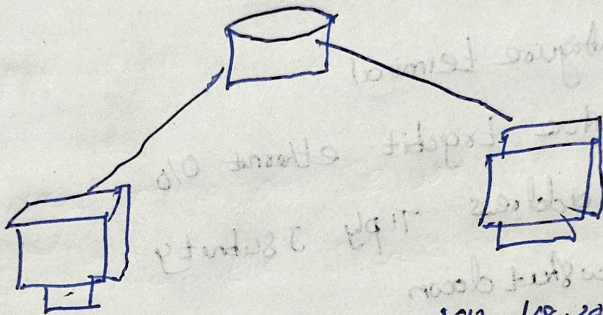
# Experiment - 16

Aim:

a) Internetworking with 1 routers in

Cisco packet tracer

g0/0	192.168.101	255.255.255-0
g0/1	192.168.20.1	255.255.255-0



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 # config t

Router (config) # interface g0/0

Router (config-if) # ip address {IP} {subnet}

Router (config-if) # no shutdown

Router (config-if) # interface g0/1

Router (config-if) # ip address {IP} {subnet}

Router (config-if) # no shutdown

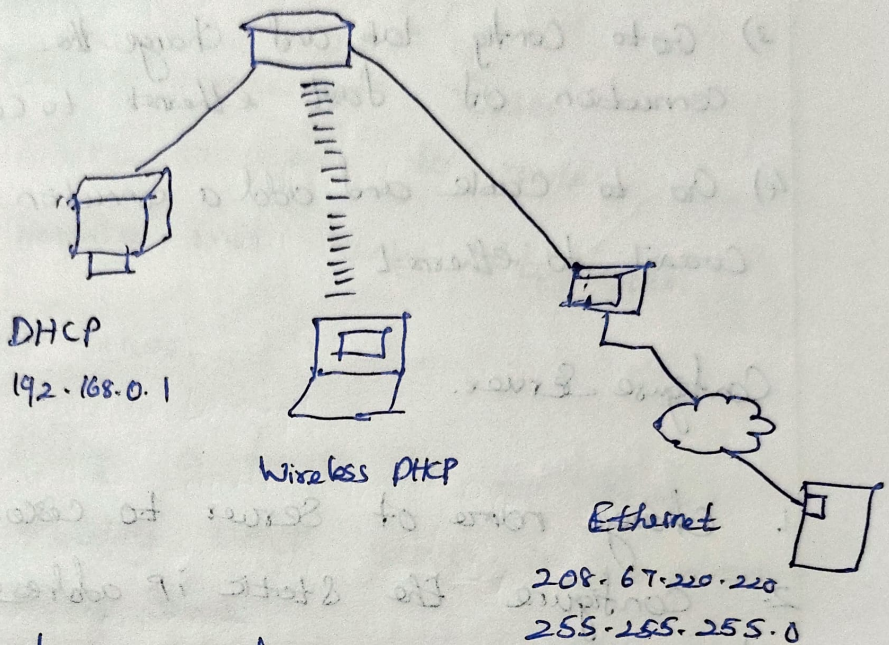


b) Design and implement DHCP using wireless router, DHCP server and internet cloud

LAN 192.168.0.1

255.255.255.0

Internet DHCP



Configure Wireless Router.

- 1) Go to Wireless tab
- 2) Change network name (if required)
  1. Go to Step 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-ca and cloud NM-ICFE 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

1. Go to servers
2. Select DHCP and turn it on.
3. Set static IP address and subnet mask and add.

### DNS

1. Go to services
2. Select DNS and turn it on
3. Give domain name and IP address and add it



## Observation:

- 1) Write down the key features of Configuring Wireless router and DHCP Server.

### Wireless:

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

### DHCP Server.

1. Adding a static IP to 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 IP.

