Week - 6

Aim: 1) Configure webserver, DNS within a LAN
2) Configure RIP routing protocol in routers.

Topology:

Fa0/1   Fa1/1
Switch0.

10.0.0.1
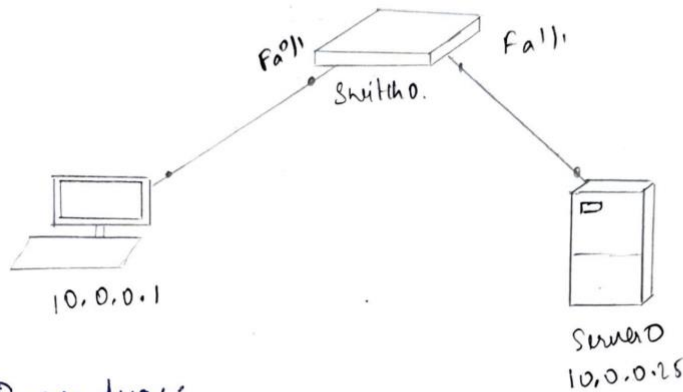
Server0
10.0.0.25

Procedure:

1) Drag & drop the IPC, server, & switch from the devices
2) Create the topology as above.
3) Configure the IP address of PC0 as 10.0.0.1
4) Configure IP address of server as 10.0.0.25
5) Open webbrowser in PC0 & give ip address of server.
6) Now, go to the DNS in the server & add name, URL.
7) Now, try with the name in webbrowser, index.html will be rendered.
8) We can edit the index.html by https section & there exists or list.

Output:

Cisco packet Tracer

welcome to cisco packet tracer
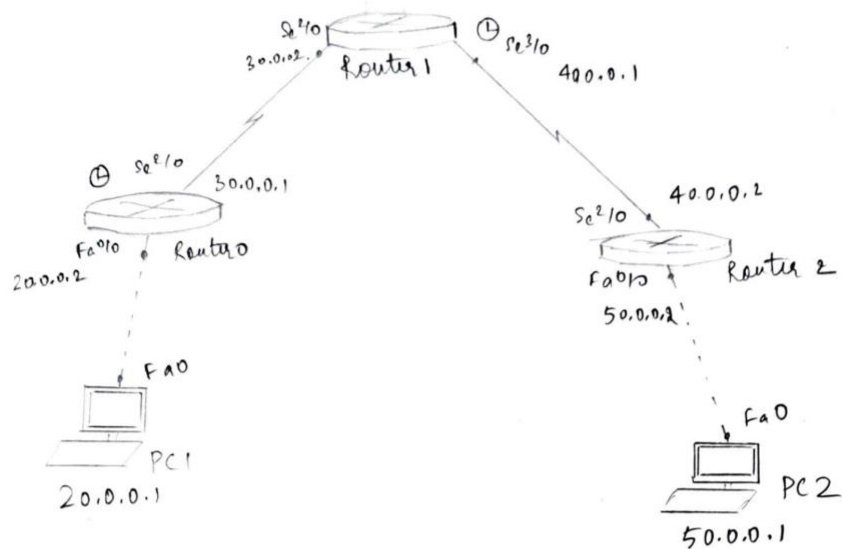quick links.
Rachit Mehta
1BM21CS156
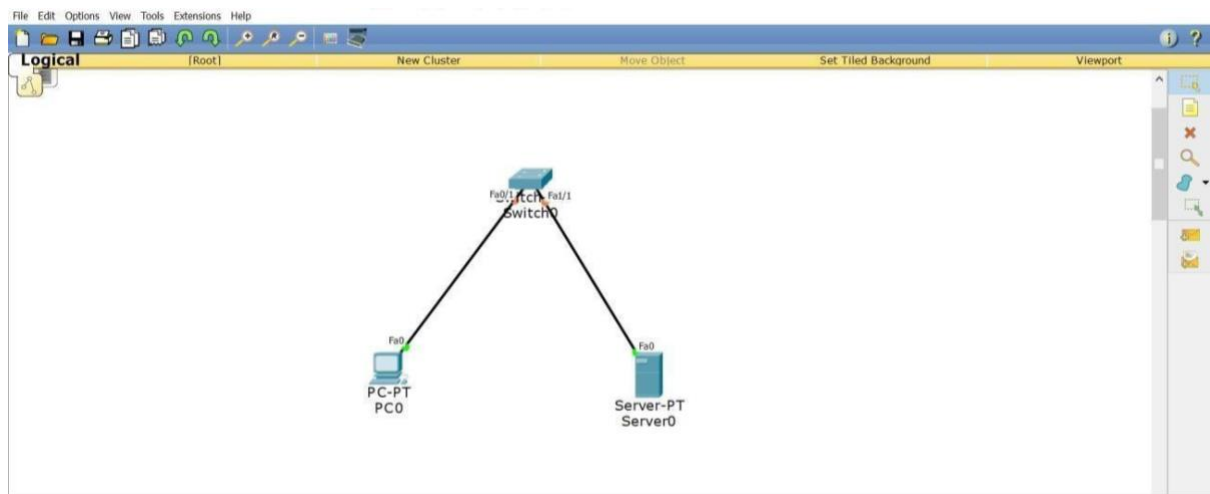
Topology :

2) Configure RIP routing protocol in routers.

Topology:

Procedure:

1) Drag & drop the 2 pc's, 3 routers from the device. Connect PC's to each router respectively.

2) Configure IP address of PC1 & PC2 as 20.0.0.1 & 50.0.0.1

3) Configure the routers using following commands.

Router > enable.
Router # config t
Router (config)#interface fa0/0
Router (config-4)# ip address 20.0.0.2 255.0.0.0
Router (config-4)# no shut
Router (config-4) # exit
Router (config)#interface se 2/0
Router (config-4) # ip address 30.0.0.1 255.0.0.0
Router (config-1)# no shut.

Similarly for router 1 & 2,

4) Now configure the serial ports of routers using "encapsulation PPP" command & give "clock rate 64000" at ports having clock symbol.

5) To enable RIP, we use router RIP command using these steps:

Router # config t

Router (config)# router rip

Router (config-router)# network 20.0.0.0

Router (config-router)# network 30.0.0.0

Similarly should be done for router 1 & 2.

6) Give the gateway to PC₁ as 20.0.0.2 or to PC₂ 50.0.0.2

7) Now ping from PC₁ to PC₂ & check the result.

Output:

PC > ping 50.0.0.1

pinging 50.0.0.1 with 32 bytes of data:

reply from 50.0.0.1 : bytes = 32 time = 2ms TTL = 125

reply from 50.0.0.1 : bytes = 32 time = 4ms TTL = 125

reply from 50.0.0.1 : bytes = 32 time = 6ms TTL = 125

reply from 50.0.0.1 : bytes = 32 time = 2ms TTL = 125

ping statistics for 50.0.0.1

packets : sent = 4, recieved = 4, lost = 0 (0% loss)

Approximate round trip in milliseconds

minimum = 2ms, maximum = 4ms, average = 4 ms.

10/10

25/9/23

Topology and Output: