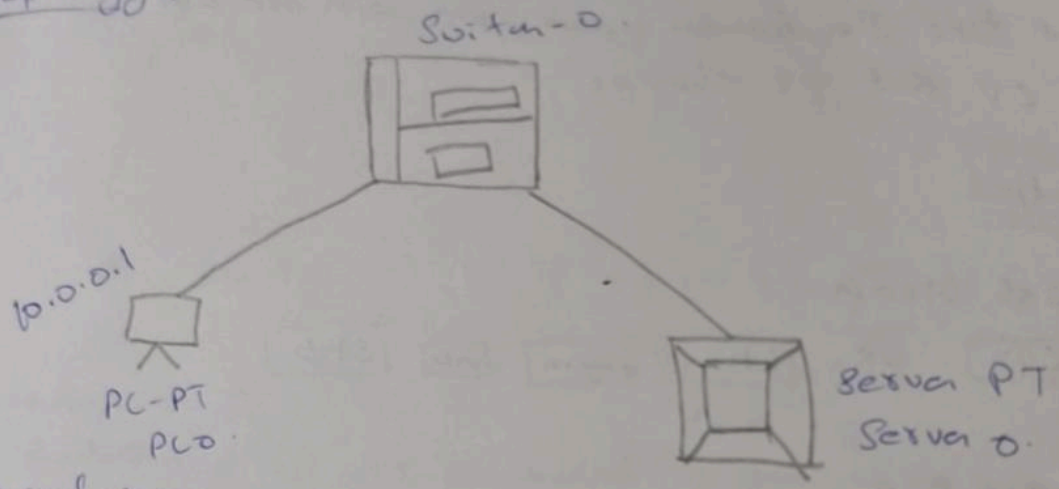
20/7/23

Lab-5

Aim :- Configure Web Server, DNS within a LAN

Topology :-



Procedure

- Connect a Switch PC & a Server to form a LAN.
- Set PC's IP address by clicking on it & go to Config tab in fast ethernet option set IP address as 10.0.0.1 & Subnet mask
- Set Server IP address as 10.0.0.2 & Subnet mask
- Go to PC's desktop & click on web browser, in the URL type 10.0.0.2, you will get default display.
- To make a CV here, we need to make changes in Server Services
- Go to Server → Services → HTTP → index.HTML Create CV & click on Save.
- Again go to PC → Desktop → web browser & type 10.0.0.2 you will see CV or content that is changed.
- Next, go to Server → Services → DNS & Switch

the services, Now add a domain name and type the IP address 10.0.0.2, Press add & save it.

- Again go back to PC → Desktop → web browser & type the domain name, we will see our CV that we change.

Output

Web browser

< > URL http://Gugan GO Stop

CV

Gugan D.A
USN - 1BM21CS063

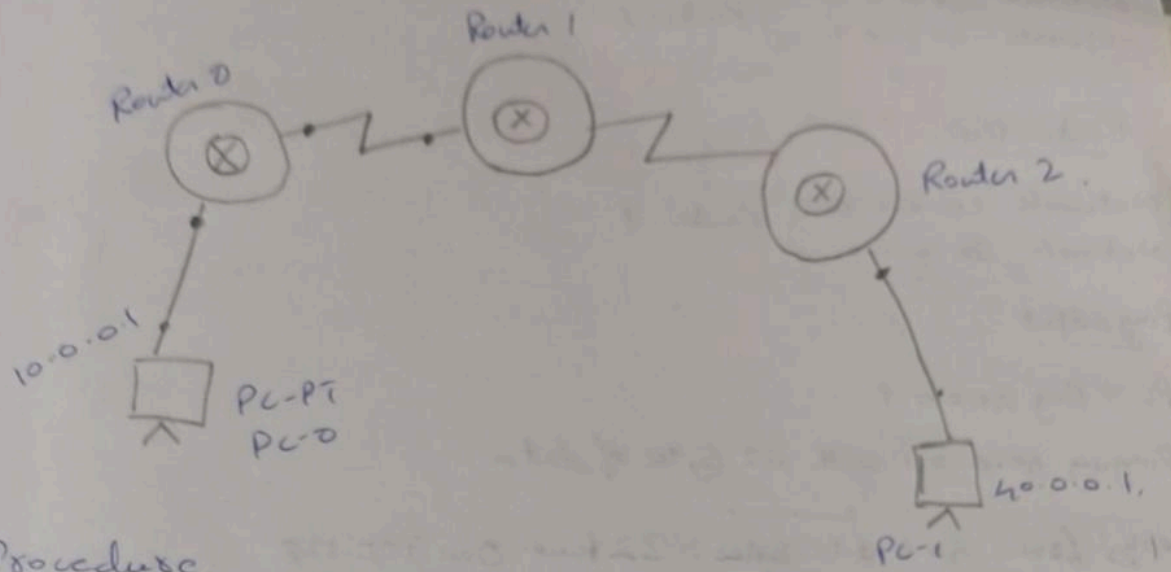
Observation

- If you wanted to go to a certain website you would open web browser & type domain name of that website or else you can also type the IP address instead if you know that website IP address.

- Since we can't remember IP addresses of all website DNS server will search through its cache to find a matching IP address for that domain name & when it find it will solve that domain name to IP address of website, once that is done then computer is able to communicate with a web server & retrieve the webpage.

6) Aim - Configuring RIP Routing Protocol in Routers

Topology -



Procedure

- 3 Routers & 2 PC's are connected as shown in topology
- a) Configure the PC's with Proper IP address & gateway address.
- ii) Similarly, configure the router with the proper IP address in CLI mode.

→ No Enable → Interface fastEthernet 0/0
→ Config. T → IP address 10.0.0.1 255.0.0.0
→ Encapsulation PPP → Clockrate 64000 → no Shut.

- iv) The Encapsulation PPP should be given to all routers & Clockrate 64000 should be given to router which have clock symbol beside them.
- v) For making router to know about the other devices, we use routing protocol algorithm that itself makes the router to know other devices.

Router RIP

network 20.0.0.0 } Router 2
network 30.0.0.0

Router RIP

Network 30.0.0.0 } Router 3
Network 40.0.0.0

Router RIP

Network 10.0.0.0 } Router 1
Network 20.0.0.0

Ping output :-

PC > Ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data.

Reply from 40.0.0.1 : bytes = 32 time : 0ms TTL : 128
Reply from 40.0.0.1 : bytes = 32 time : 0ms TTL : 128
Reply from 40.0.0.1 : bytes = 32 time : 0ms TTL : 128
Reply from 40.0.0.1 : bytes = 32 time : 0ms TTL : 128.

Ping statistics from 40.0.0.1
Packets sent = 4 Received = 4 Lost = 0 (0 % Loss)

Approximate round trip time in ms
min = 0ms , max = 0ms Average = 0ms.

PC0

Physical Config Desktop Custom Interface

Web Browser

URL http://BMSCE CSE

Go Stop

My CV

GAGAN D A

USN : 1BM21CS063

Languages : C, C++, JAVA, Python

A small page Image

Topology :