Weekly Assessment – 4

Thanvi Katakam(2023006366)

Week4- DNS & Web server Configuration

Aim:

To configure a DNS and Web Server in Cisco Packet Tracer using two servers to handle both services and ensure successful connectivity from a client PC.

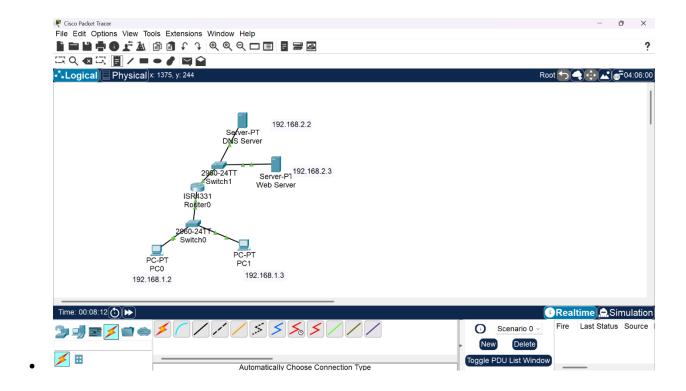
Description:

This setup involves creating a small network where a 2 servers functions as DNS and a Web Server. A router connects all devices, including two servers, two switches, and two PC. The DNS server resolves domain names to IP addresses, while the Web Server hosts a webpage accessible via a browser.

Network Topology Overview:

Devices Used:

- 1 Router
- 2 Servers (1 for DNS & 1 for Web Server)
- 2 Switches(here, we used 1 switch to connect the PCs while the other to connect Servers
- 2 PCs



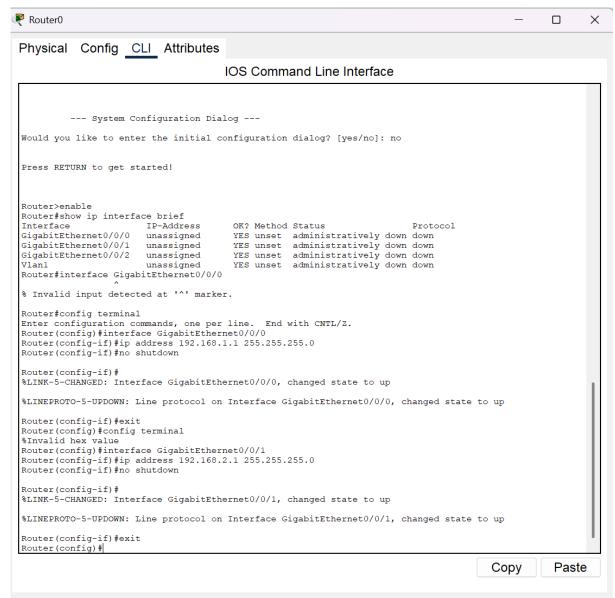
- Router Configuration:

We use the **Command Line Interface (CLI)** to configure the **router** to connect to both switches. The ports connecting to the switches will act as **default gateways** for devices within each switch's network:

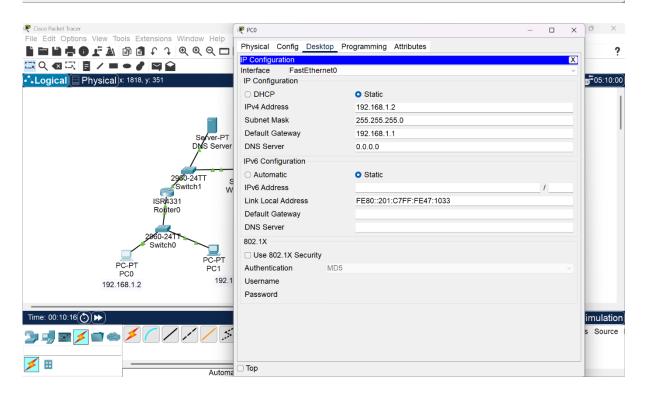
- **GigabitEthernet0/0/0** → 192.168.1.1 (Gateway for PCs)
- **GigabitEthernet0/0/1** \rightarrow 192.168.2.1 (Gateway for Servers)

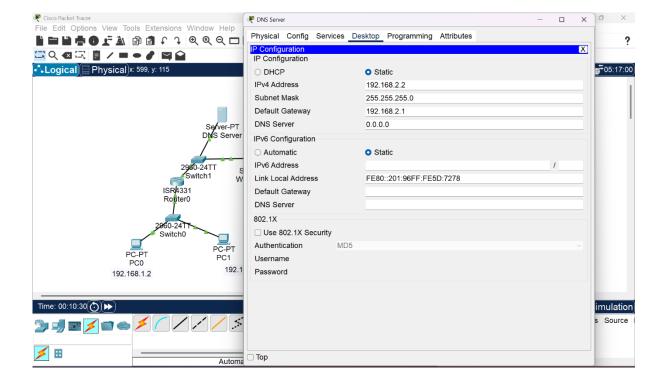
IP Addressing Scheme:

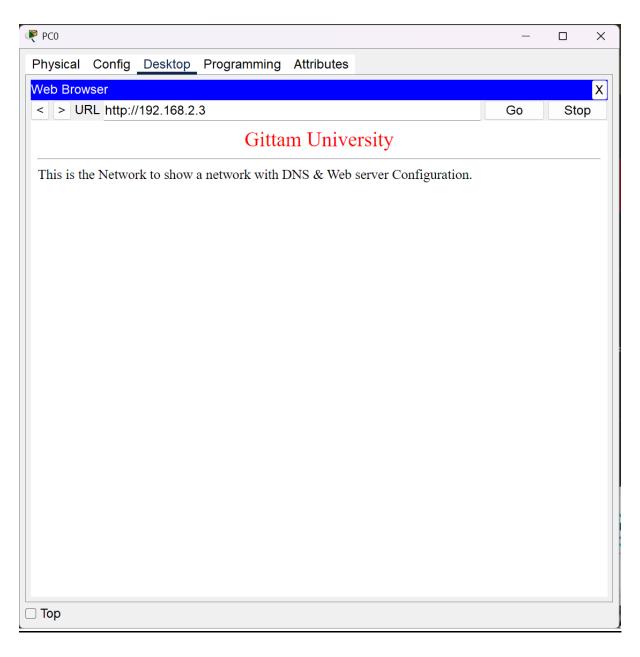
Device	IP Address	Default Gateway
PC0	192.168.1.2	192.168.1.1
PC1	192.168.1.3	192.168.1.1
DNS Server	192.168.2.2	192.168.2.1
Web Server	192.168.2.3	192.168.2.1

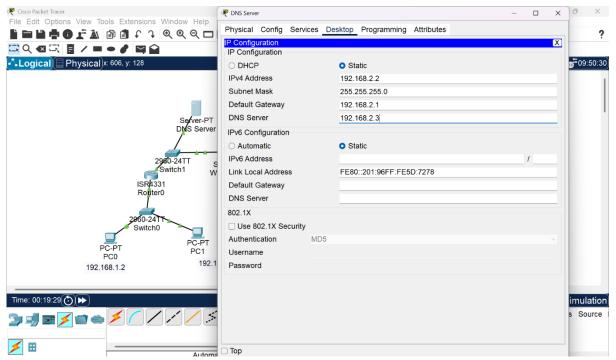


☐ Top



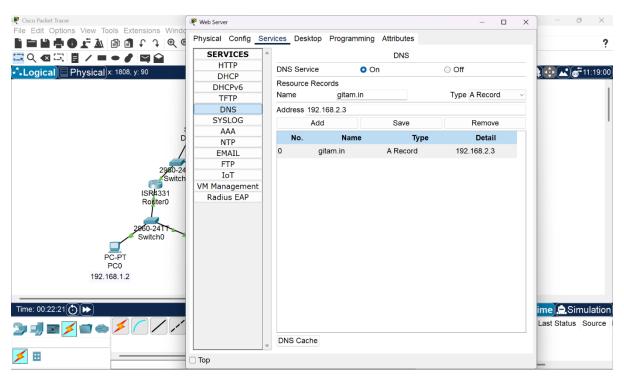




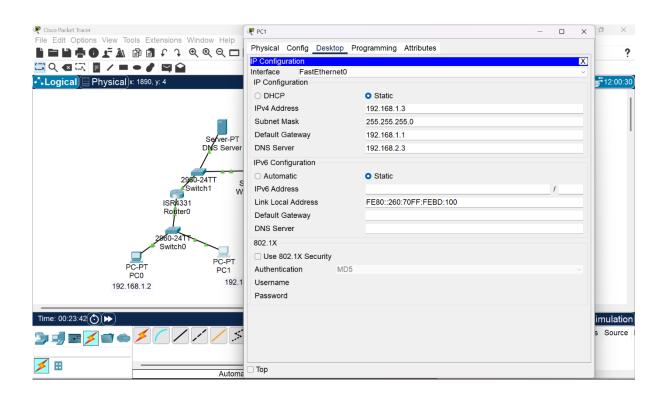


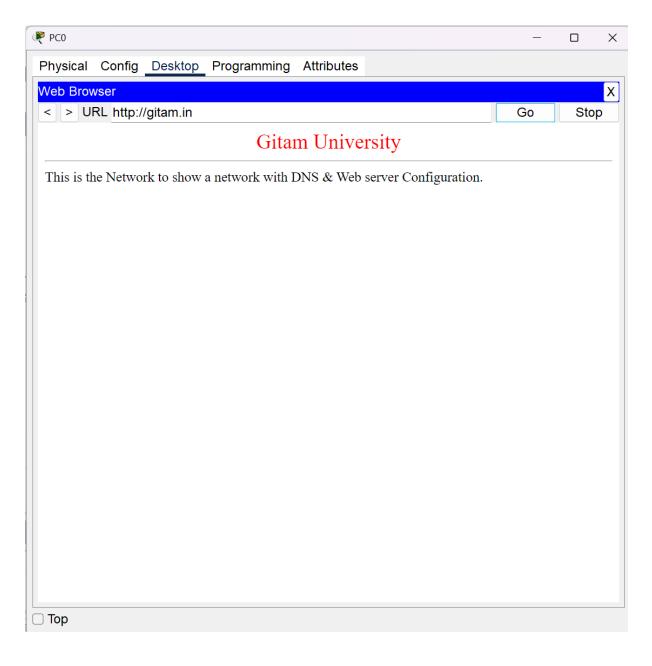
Now, if we want to open a web page which we have created we have to go to desktop in any of our PCs and type the web page's IP address but it will be tough to remember many IP address. That is when DNS Server is Useful.

- First we go to DNS Server and give the IP address of our Web Server

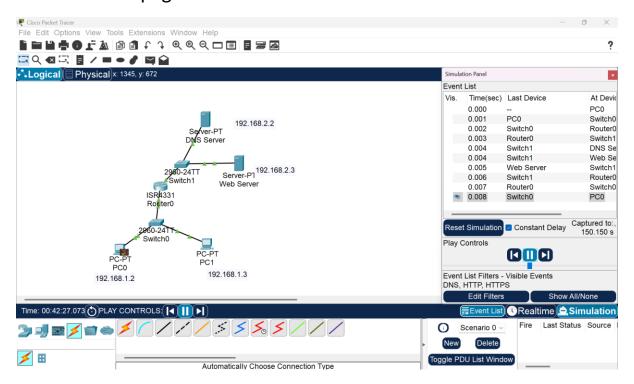


- Now we go to WEB Server and open DNS service and create the name of our Website and give the address of our DNS server.
- Now we have to give IP address of our Web Server in the DNS section of all the PCs (in IP configuration).





 Now , if we click on any PC and then type the website name (here, it's <u>gitam.in</u>) which we have created then we can open our web page which we created in DNS server



(in simulation mode.)

This way we can Successfully configure a DNS server and a Web Server.