LAB 6

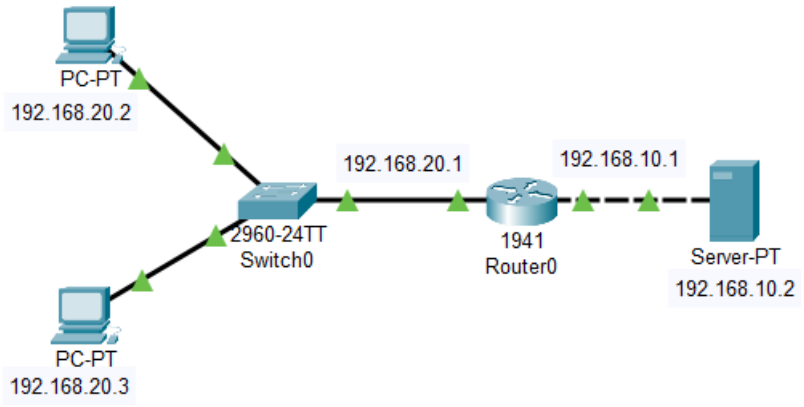
DNS, Web, DHCP, FTP Server configuration

Objective:

- To understand the configuration of DNS, Web, DHCP, FTP server.

DNS Server Configuration:

To create a DNS configuration two PCs are connected to a switch and the switch is connected to a Router this router is connected to a remote server as shown in the figure below:

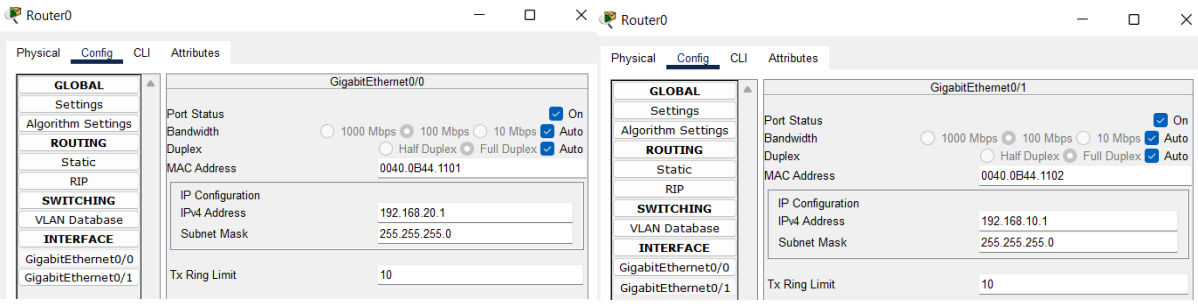


Configuration:

Connect the PCs to the Switch using Fast Ethernet then connect the Switch to a Router then connect the Router to the Server.

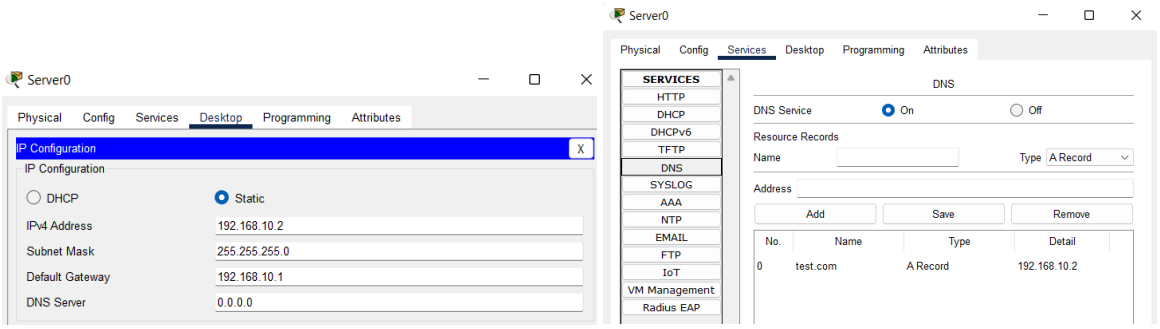
For Router:

- Double click on the router and go to config and then interface.
- In Fast Ethernet 0/1, Set the port status to on and set the IP Address as 192.168.10.1.
- In Fast Ethernet 0/0, Set the port status to on and set the IP Address as 192.168.20.1.
- Close the window.



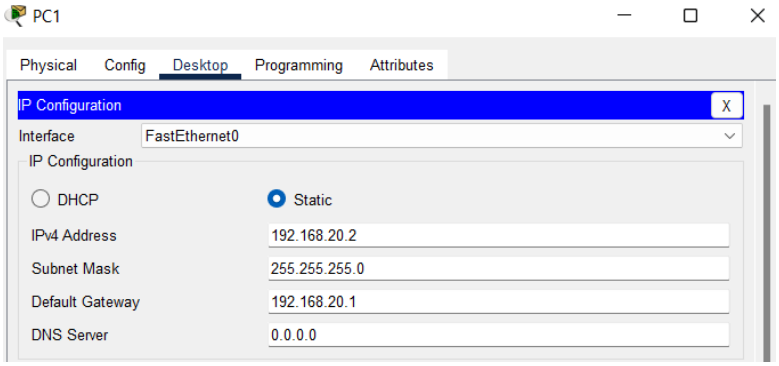
For Server:

- Double click on the Server and go to desktop and then IP Configuration.
- Set the IP Address as 192.168.10.2 and The Default Gateway as 192.168.10.1.
- Then go to Services then select DNS. Turn on DNS service.
- Add a Name and Address to host the network.
    - If you want to modify the HTTP Page, go to HTTP and Edit as desired.



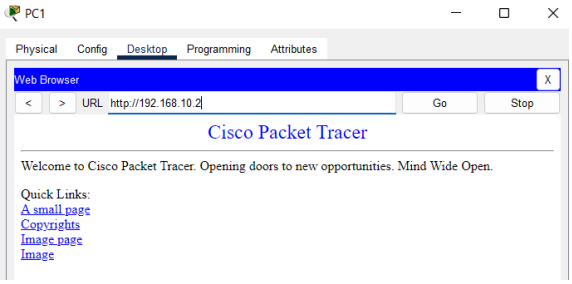
For PCs:

- Double click on the PC and go to desktop and then IP Configuration.
- Set the IP Address as 192.168.20.2 and The Default Gateway as 192.168.20.1.
- Close the window.
- Repeat the same step for the next PC and Set the IP Address as 192.168.20.3 and Gateway as 192.168.20.1.



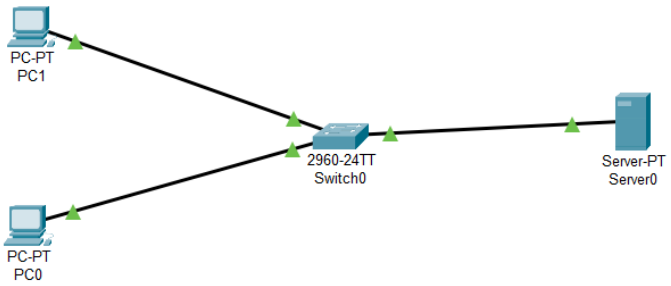
To test for proper configuration:

- Double click on any of the PC and go to desktop.
- Open Web Browser.
- Enter the URL. If the DNS is configured the Webpage will load else some error will be displayed.



DHCP Server Configuration:

To create a DHCP Server configuration two PCs are connected to a switch and the switch is connected to a server as shown in the figure below:

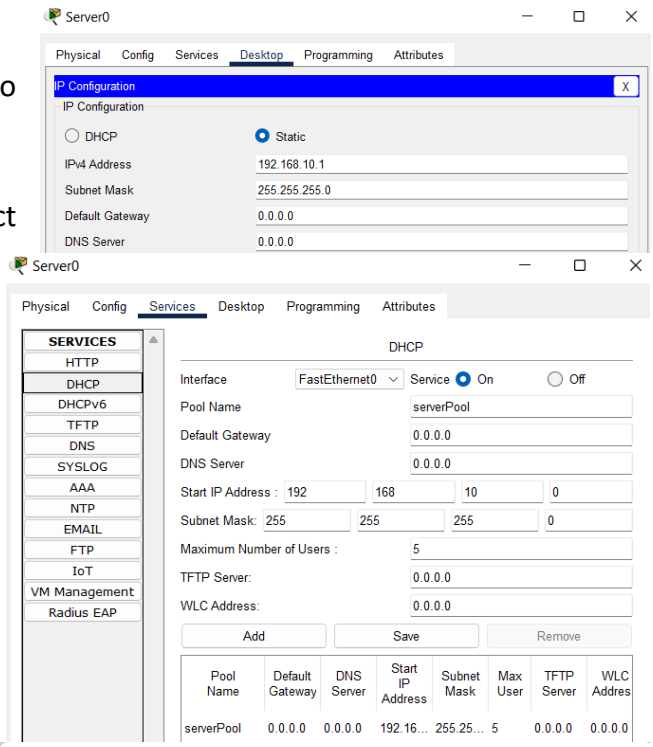


Configuration:

Connect the PCs to the Switch using Fast Ethernet then connect the Switch to the Server.

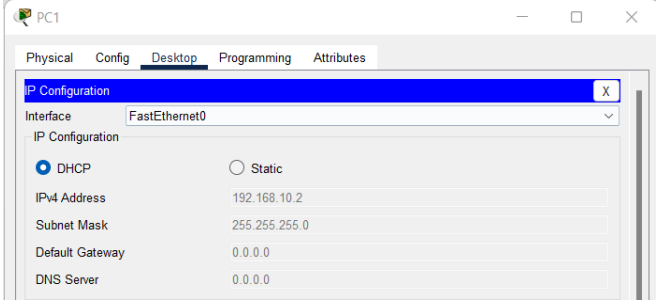
For Server:

- Double click on the Server and go to desktop and then IP Configuration.
- Set the IP Address as 192.168.10.1.
- Then go to Services then select DHCP. Turn on DHCP service.
- Set the Pool name, Default gateway, Start IP Address, Max number of users, etc and Save/ Add it.



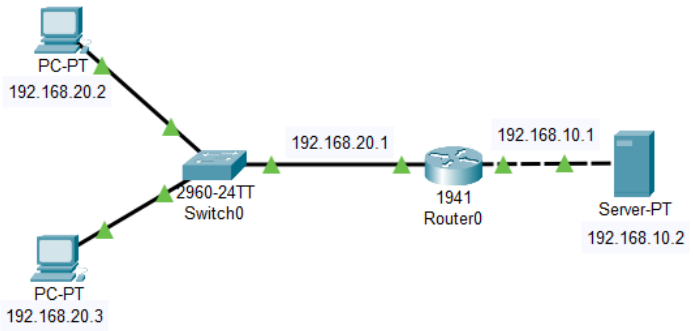
For PCs:

- Double click on PC and go to Desktop.
- Open IP Configuration.
- Select DHCP. If the DHCP server is configured successfully a IP Address from the given range will be assigned.



Email Server Configuration:

To create an Email Server configuration two PCs are connected to a Switch Which is then connected to a Router. The Router is connected to a remote server as shown in the figure below.

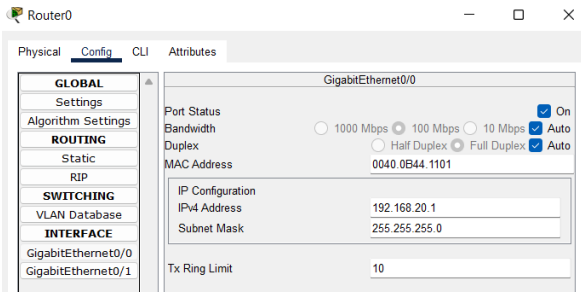


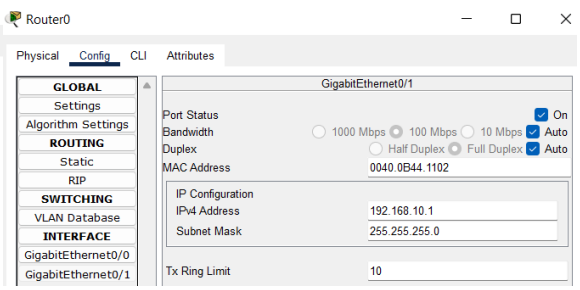
Configuration:

Connect the PCs to the Switch using Fast Ethernet then connect the Switch to a Router then connect the Router to the Server.

For Router:

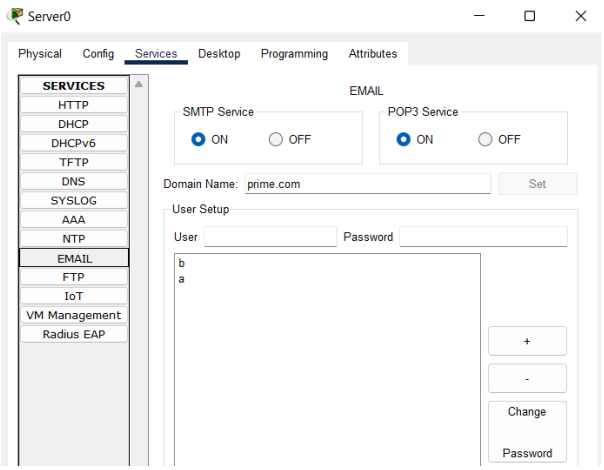
- Double click on the router and go to config and then interface.
- In Fast Ethernet 0/1, Set the port status to on and set the IP Address as 192.168.10.1.
- In Fast Ethernet 0/0, Set the port status to on and set the IP Address as 192.168.20.1.
- Close the window.





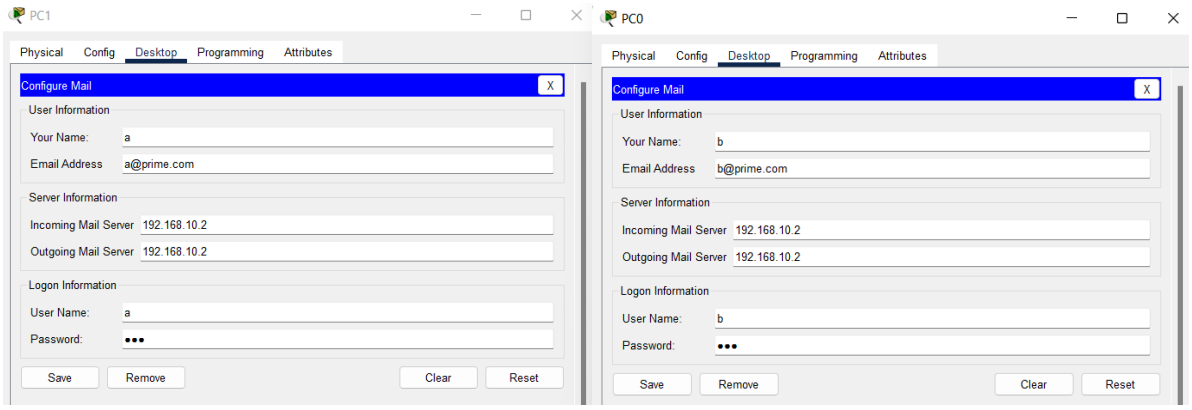
For Server:

- Double click on the Server and go to desktop and then IP Configuration.
- Set the IP Address as 192.168.10.2 and The Default Gateway as 192.168.10.1.
- Then go to Services then Email. Turn on SMTP and POP3.
- Add a Domain Name and set it.
- Create users and assign password for them.



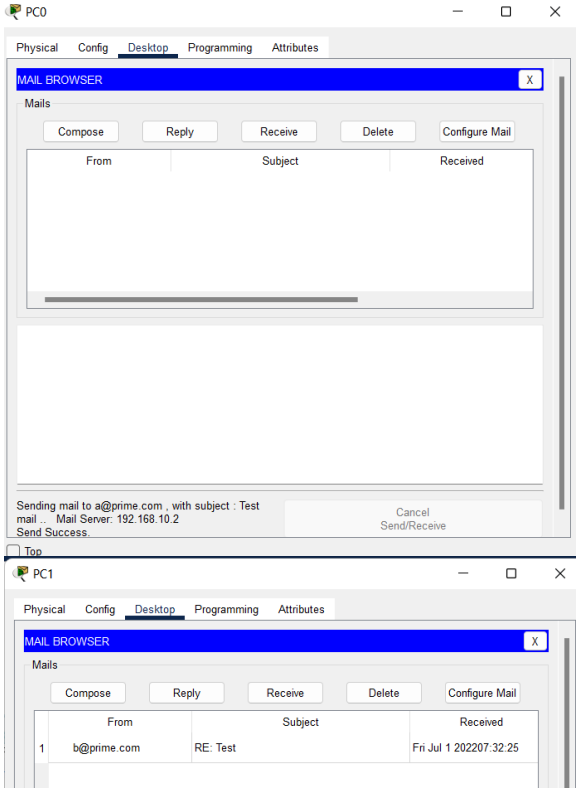
For PCs:

- Double click on the PC and go to desktop and then IP Configuration.
- Set the IP Address as 192.168.20.2 and The Default Gateway as 192.168.20.1.
- Open email and then configure it with the user details created in the server and save it.
- Close the window.
- Repeat the same step for the next PC and Set the IP Address as 192.168.20.3 and Gateway as 192.168.20.1 and configure email for different user.



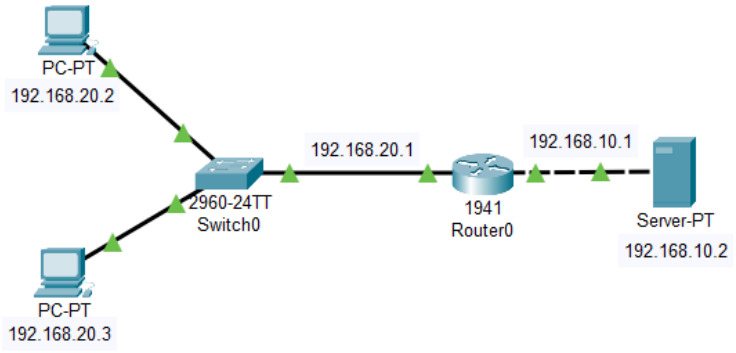
To test for proper configuration:

- Double click on any of the PC and go to desktop.
- Open Email and compose a mail.
- If the email server is successfully configured email can be sent and received.



FTP Server Configuration:

To create an FTP Server configuration two PCs are connected to a Switch Which is then connected to a Router. The Router is connected to a remote server as shown in the figure below.

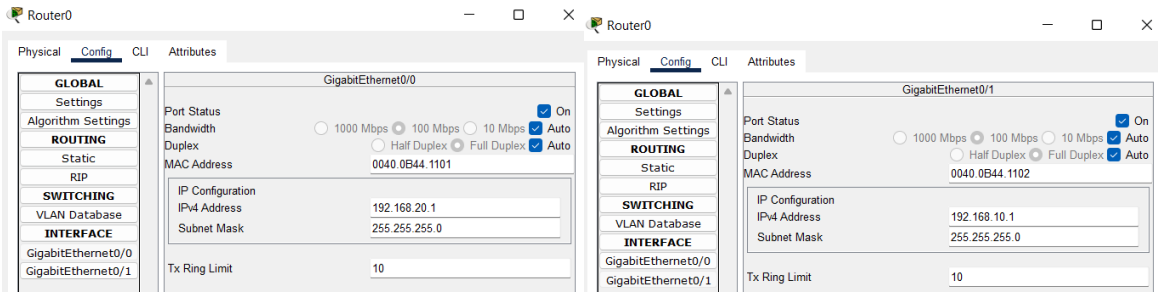


Configuration:

Connect the PCs to the Switch using Fast Ethernet then connect the Switch to a Router then connect the Router to the Server.

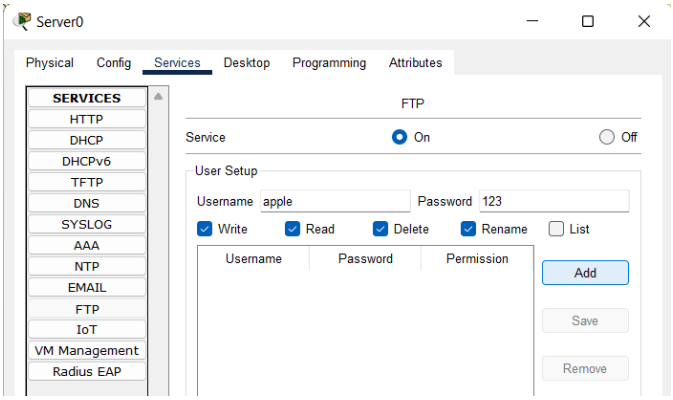
For Router:

- Double click on the router and go to config and then interface.
- In Fast Ethernet 0/1, Set the port status to on and set the IP Address as 192.168.10.1.
- In Fast Ethernet 0/0, Set the port status to on and set the IP Address as 192.168.20.1.
- Close the window.



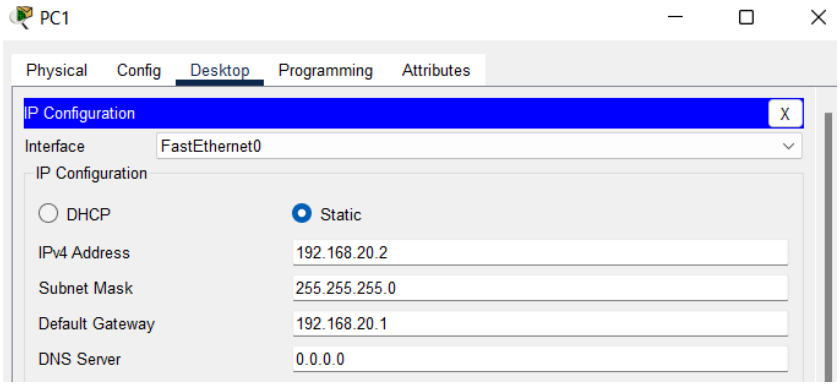
For Server:

- Double click on the Server and go to desktop and then IP Configuration.
- Set the IP Address as 192.168.10.2 and The Default Gateway as 192.168.10.1.
- Then go to Services then FTP. Turn on FTP.
- Create a User by Filling Username, Password and assign them with permissions and add the user.



For PCs:

- Double click on the PC and go to desktop and then IP Configuration.
- Set the IP Address as 192.168.20.2 and The Default Gateway as 192.168.20.1.
- Close the window.
- Repeat the same step for the next PC and Set the IP Address as 192.168.20.3 and Gateway as 192.168.20.1.



To test for proper configuration:

- Double click on any of the PC and go to desktop.
- Open Command Prompt. And type **Error! Hyperlink reference not valid.**.
- Then use username and password to login.
- If the FTP Server is setup correctly no error will be encountered.