Computer Networks Lab Task – 6

Instructor: Ma'am Hurmat Hidayat

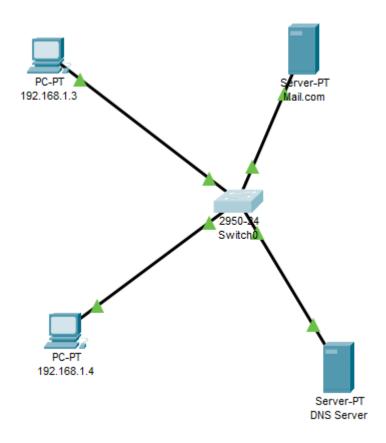
Roll No: 20P-0101

Name: Muhammad sherjeel Akhtar

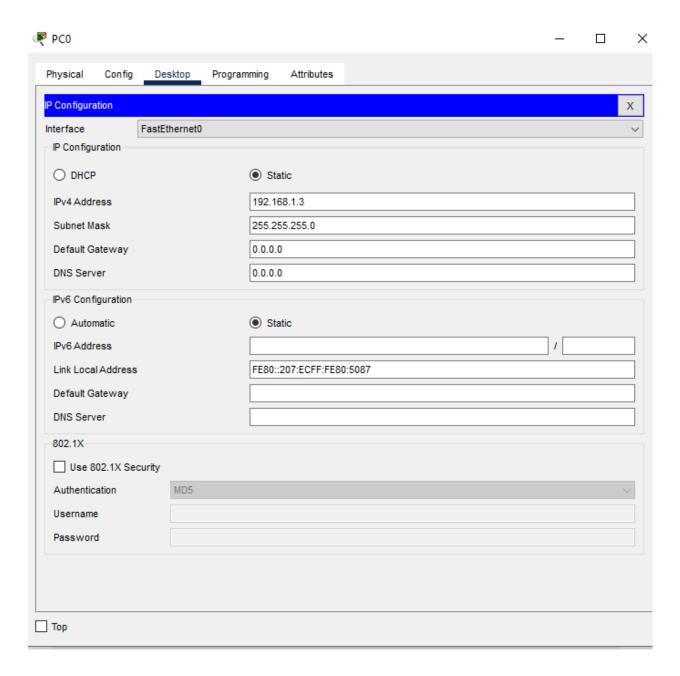
Section: B

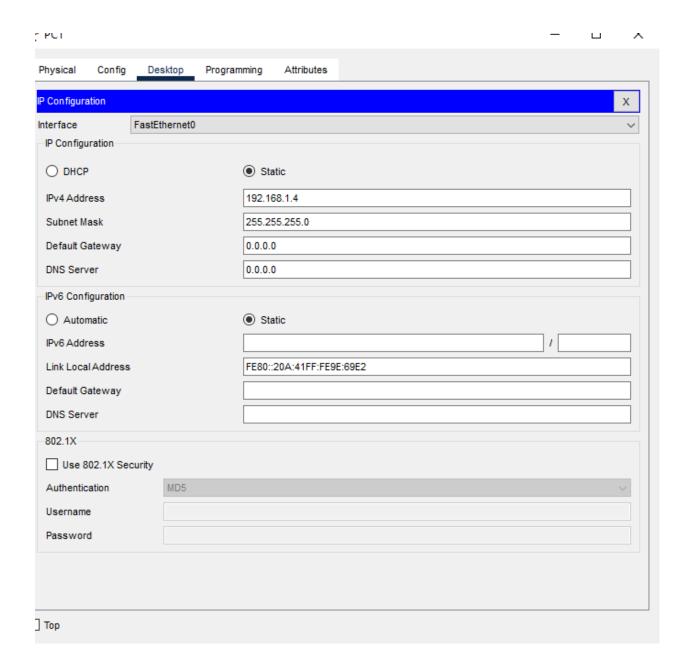
Task: How to configure an email server in Packet Tracer

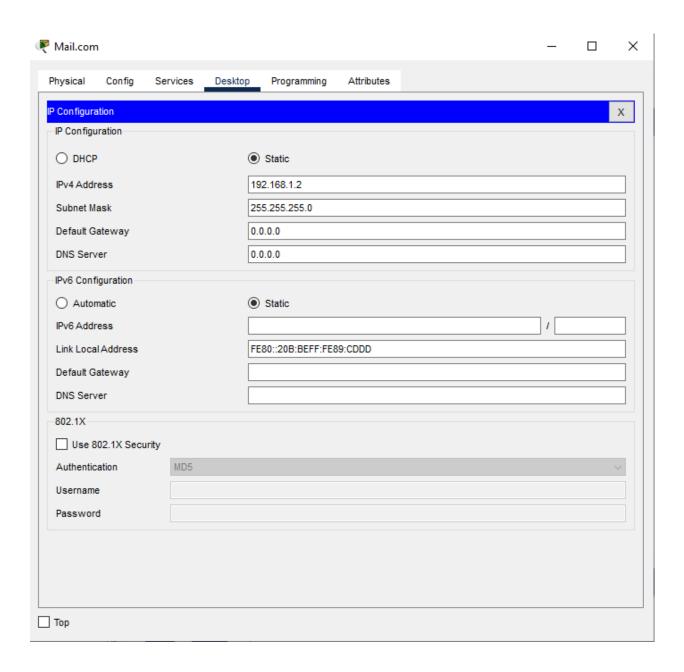
Build a network topology for this first and then we connect them with wire

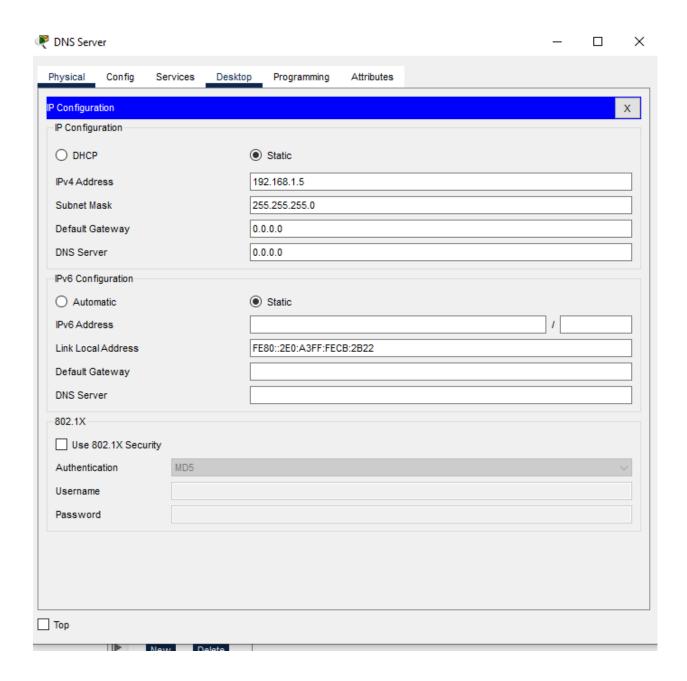


Then we configure IP addresses on pc DNS and Mail server

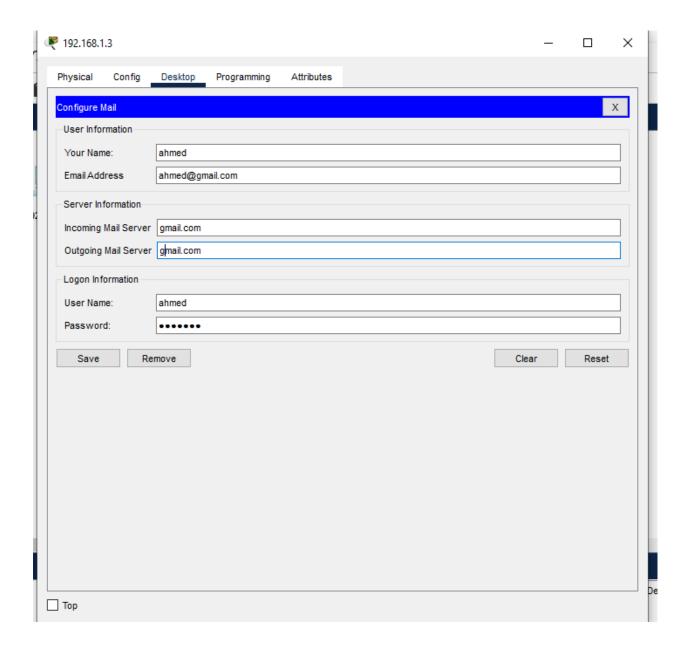


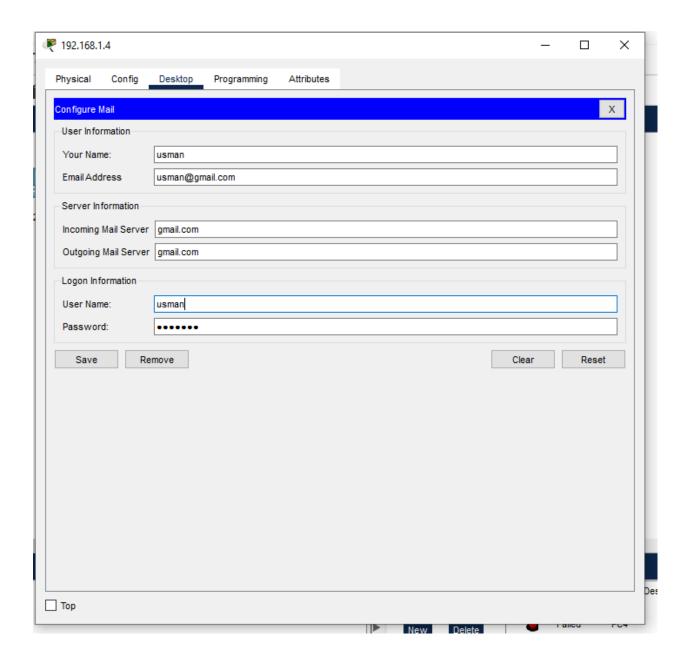




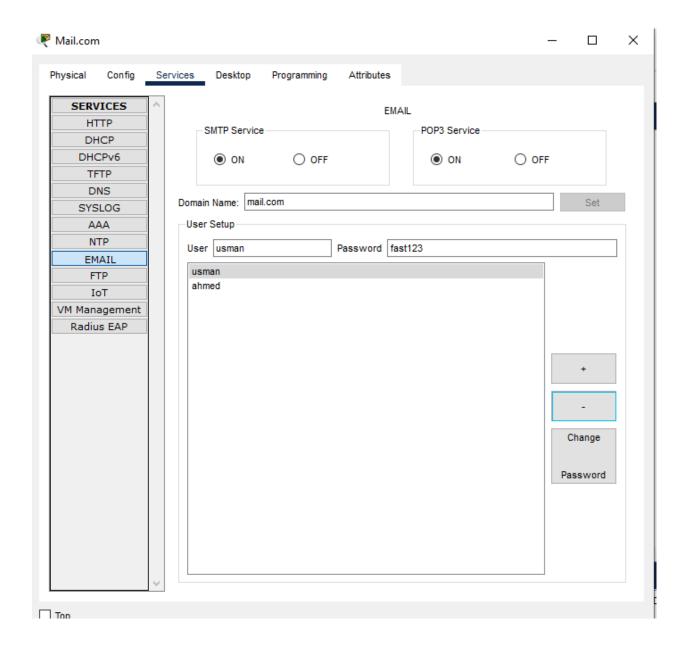


Now we configure the mail clients for both the pc

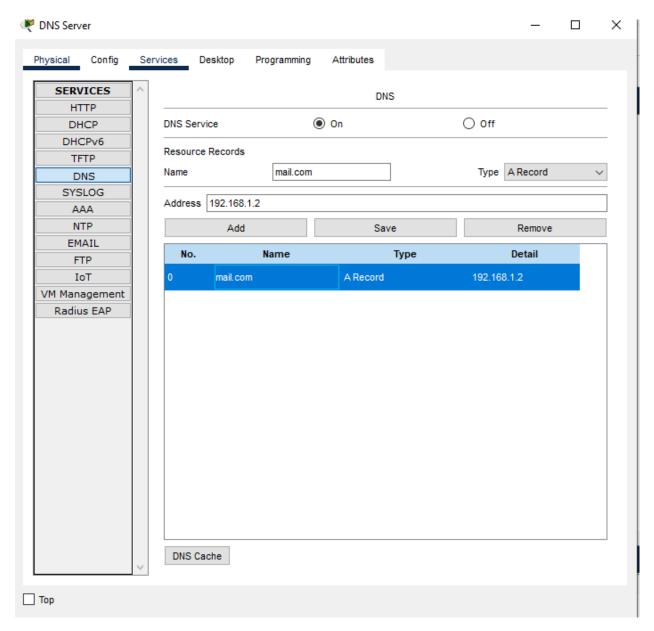




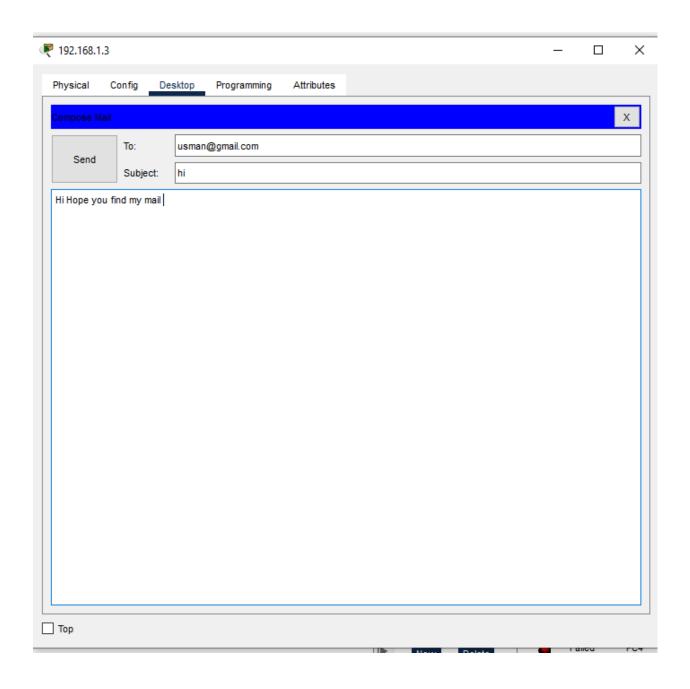
Now we go on the Mail server and then we go on services and then we go on email portion and then we add the domain name and set it then we add the client details to the server client 1 and client 2



Then we go on the DNS server and go on services and click DNS and add the domain name with its IP Address 192.168.1.2



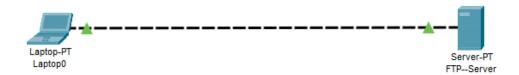
Now after configuring everything we test it by sending a mail from ahmed to usman



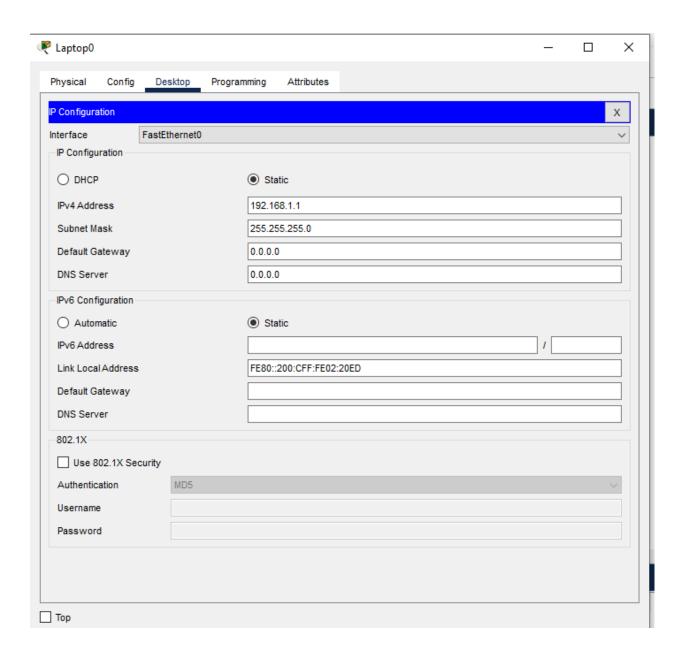
Now we reply from usman back toahmed

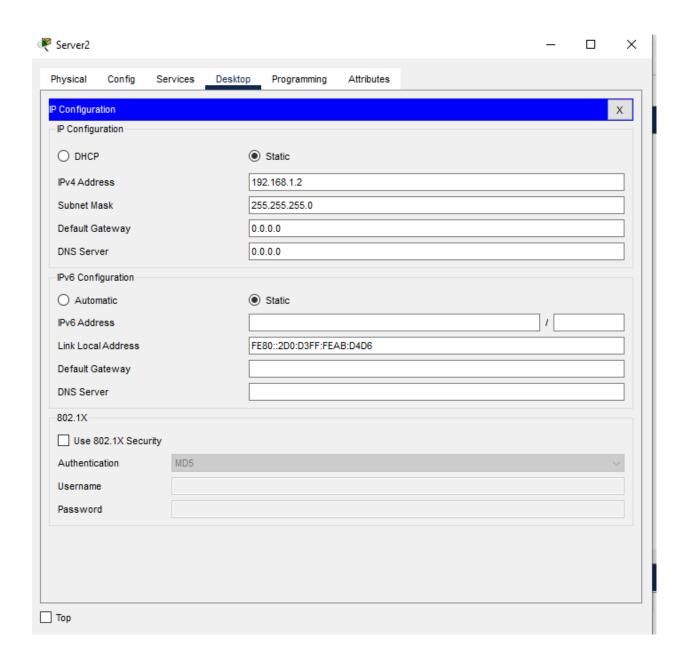
Task : How to configure an FTP server in Packet Tracer

First we build a topology for this and connect the laptop with server through the fast wire



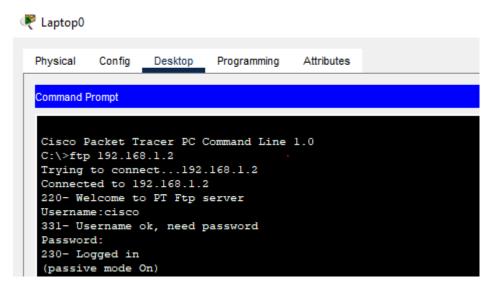
Then we configure the ip address for the laptop and the server





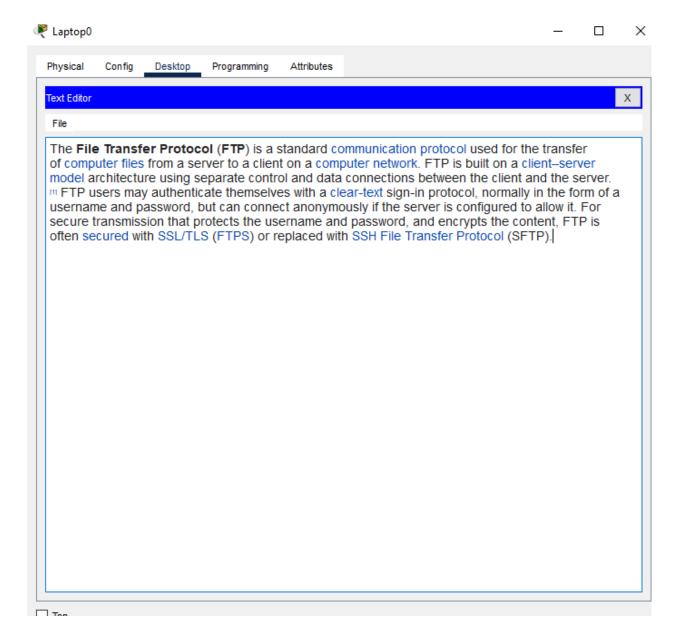
Now by using ftp client built in laptop we send files to an ftp server so first we opne the command prompt of the laptop

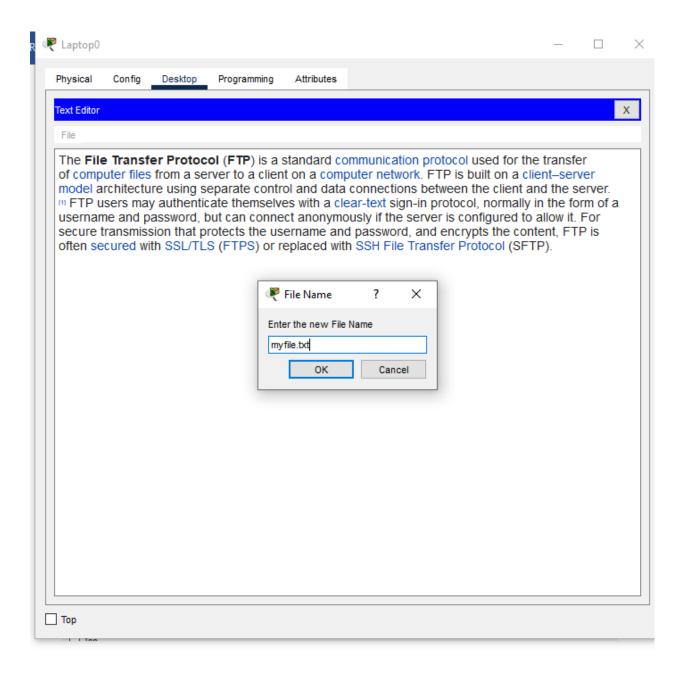
And then type ftp 192.168.1.2



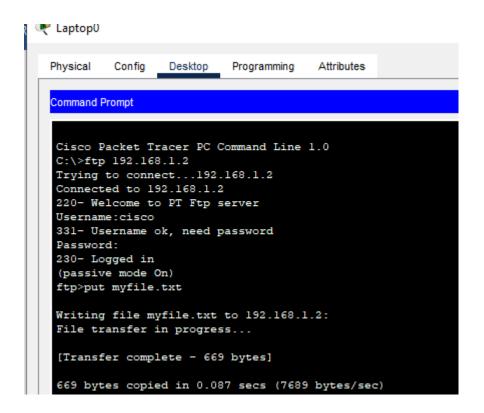
Then it will ask for username and password which is default and that is cisco for both

Then after this we have to send a file so we create a file with some data inside it we use the text editor and write in some data and save it with txt format

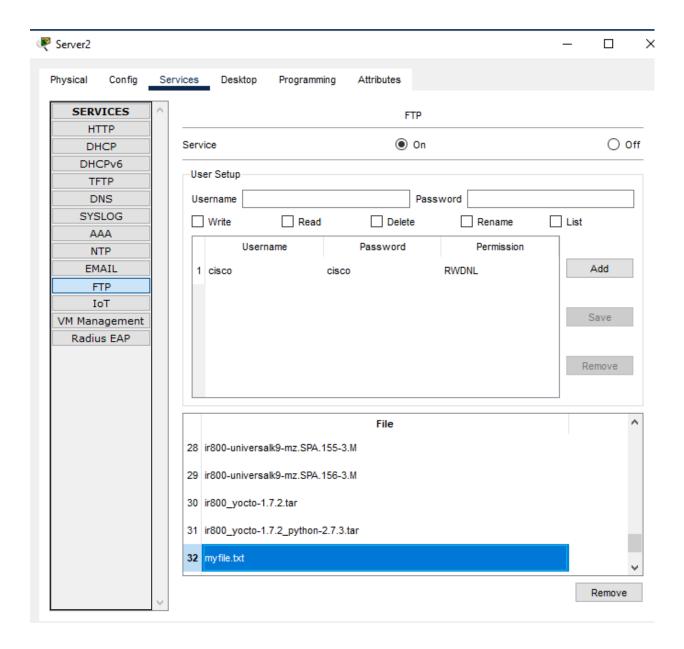




Now we send the file so we type in the command prompt put myfile.txt



Now to check if the file is sent we go the server and check in services ftp

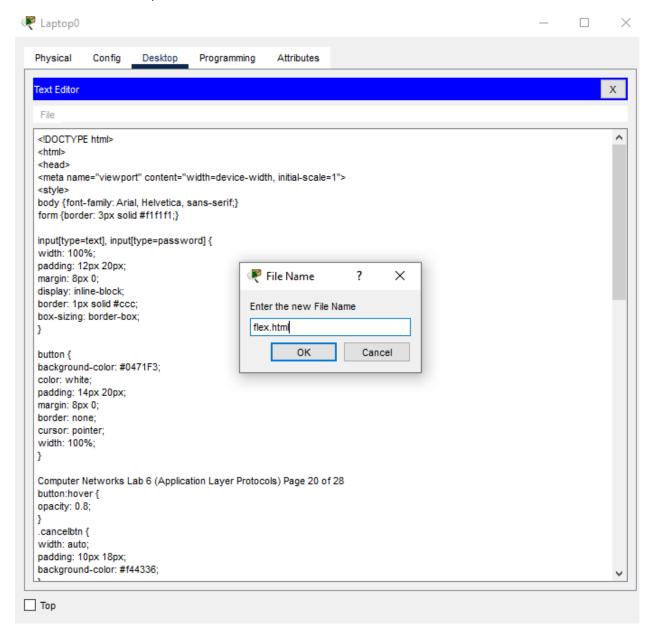


Task: Create and Upload html file to HTTP server directory Using FTP

Now we have to upload an http file to the http server using ftp

So first we write down the html code in text editor

And then save it by the name flex.html



Now we change the directory from ftp to http by typing in the command prompt Cd /http

```
669 bytes copied in 0.082 secs (8158 bytes/sec)
ftp>cd /http
ftp>
Working directory changed to /http successfully
ftp>
```

Now we upload the file in http by simply putting put flex.html

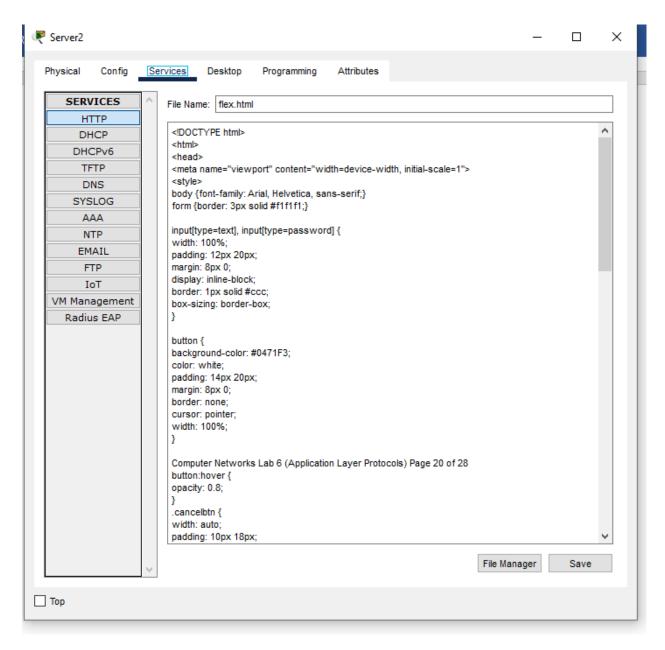
```
669 bytes copied in 0.082 secs (8158 bytes/sec)
ftp>cd /http
ftp>
Working directory changed to /http successfully
ftp>put flex.html

Writing file flex.html to 192.168.1.2:
File transfer in progress...

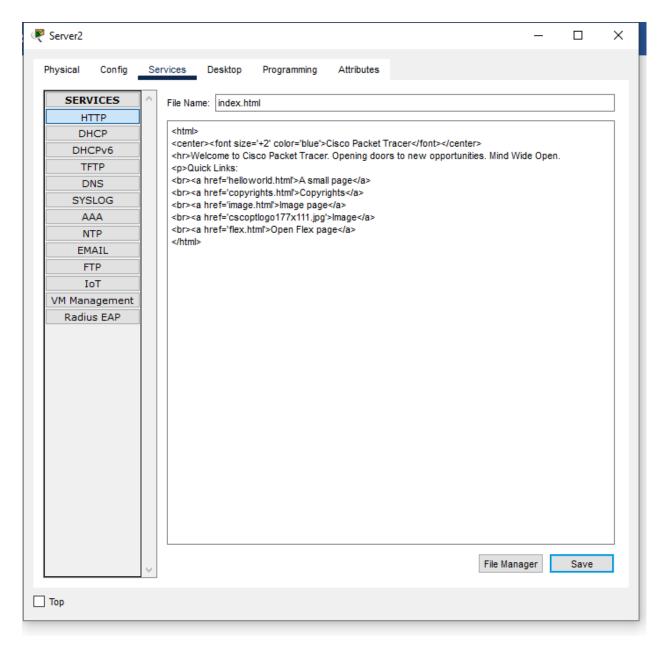
[Transfer complete - 1900 bytes]

1900 bytes copied in 0.078 secs (24358 bytes/sec)
ftp>
```

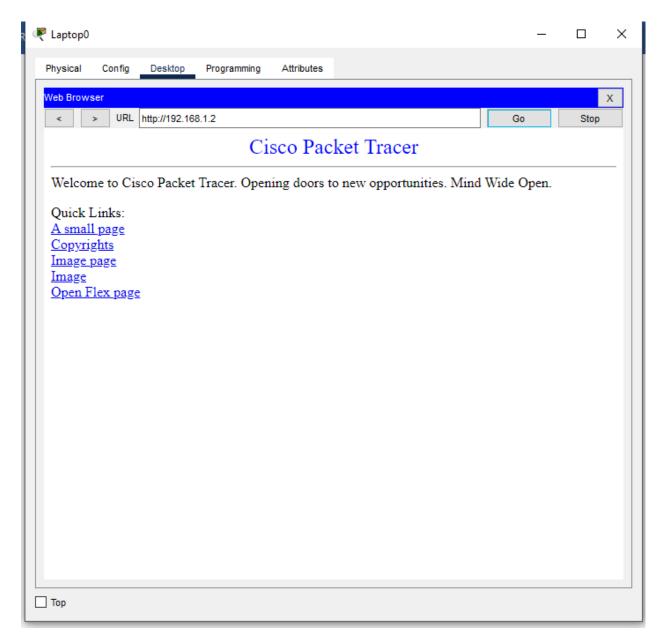
Now we check on the server



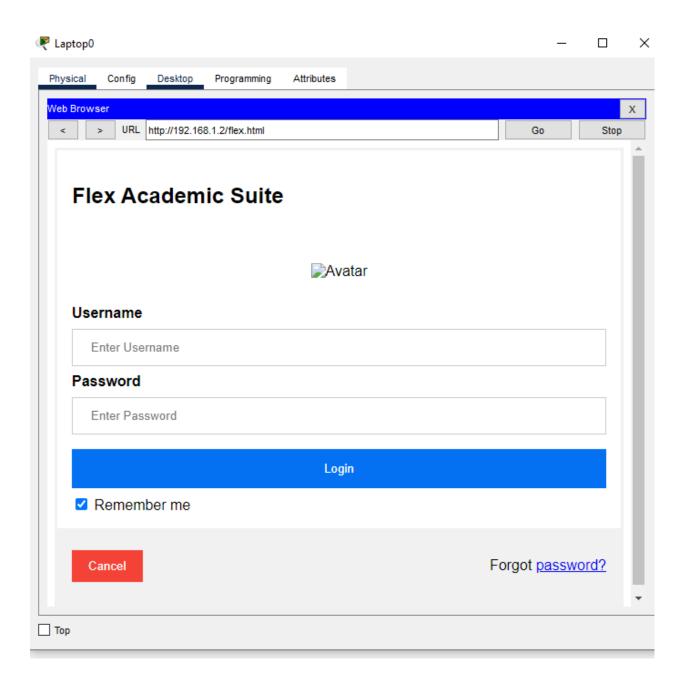
Now we go on the index.html file and add the flex.html file in it



And now we open the browser on our laptop and then we run the http://192.168.1.2 address on the browser

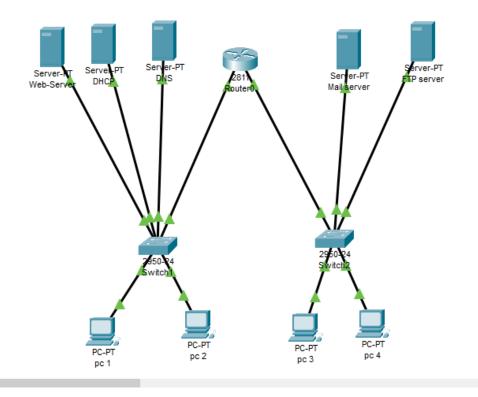


So if we click on the open flex page it will open the flex.html file we used to link it so it would display like this

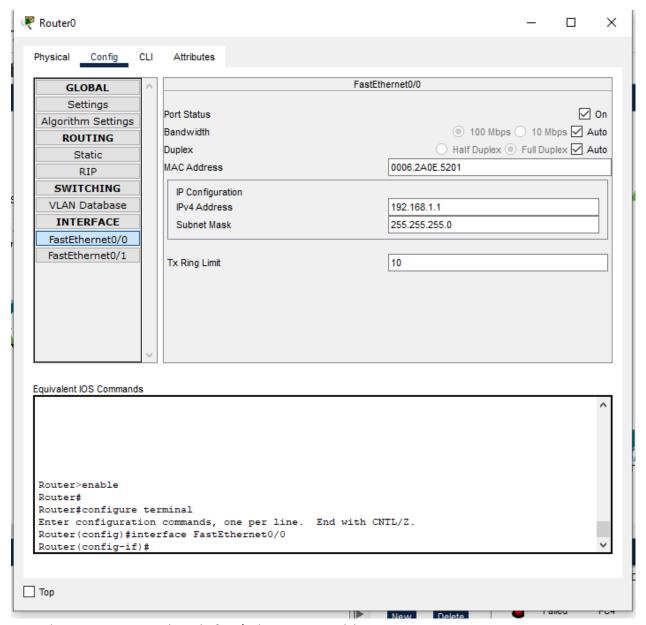


Task: Configure Mail server, Ftp Server, DHCP Server, DNS Server and web Server in a single topology, use router and switch.

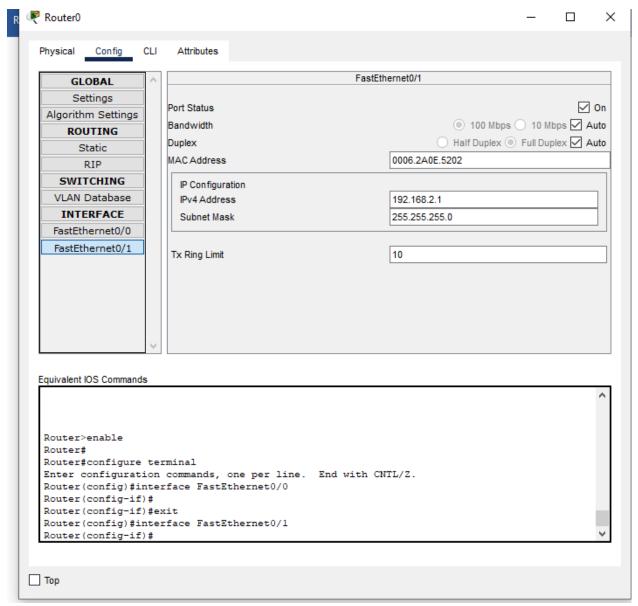
First we build the network topology



Now we make the connection of the switches with the router through the wires

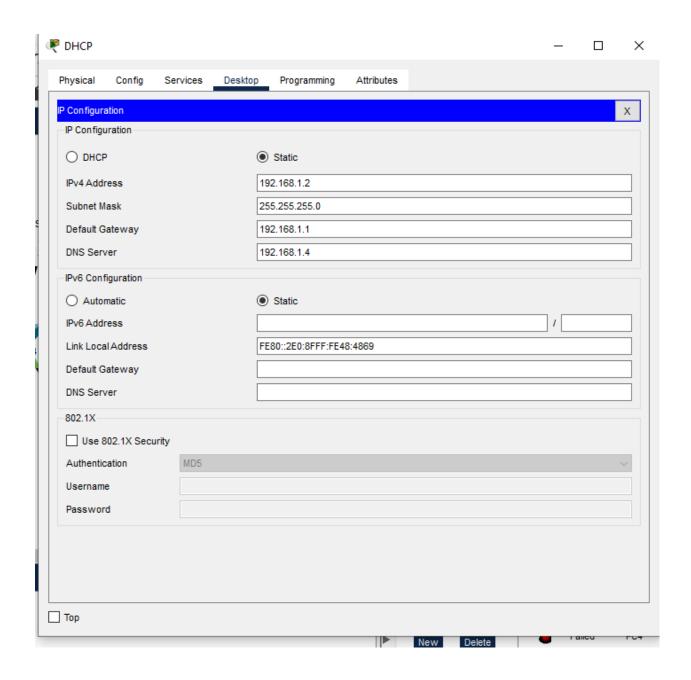


switch 1 is connected with fa0/0 having ip address 192.168.1.1

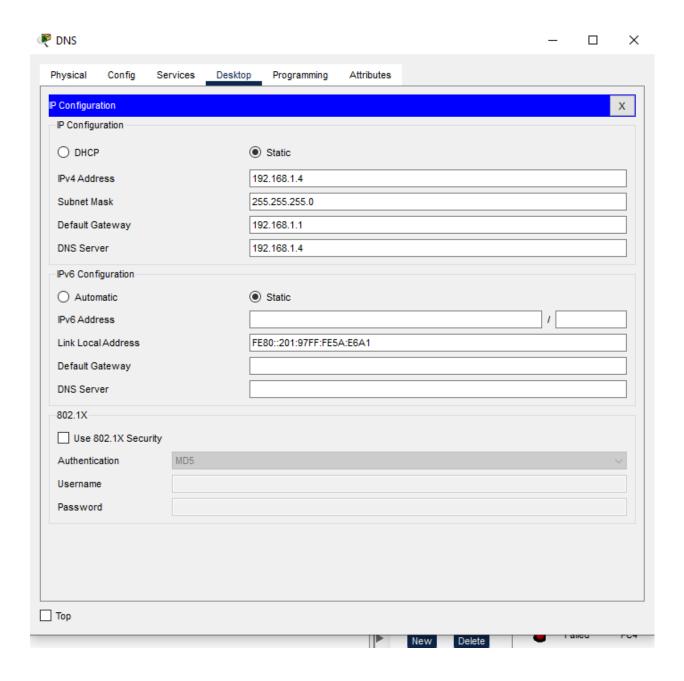


and switch 2 is connected with fa 0/1 having ip address 192.168.2.1

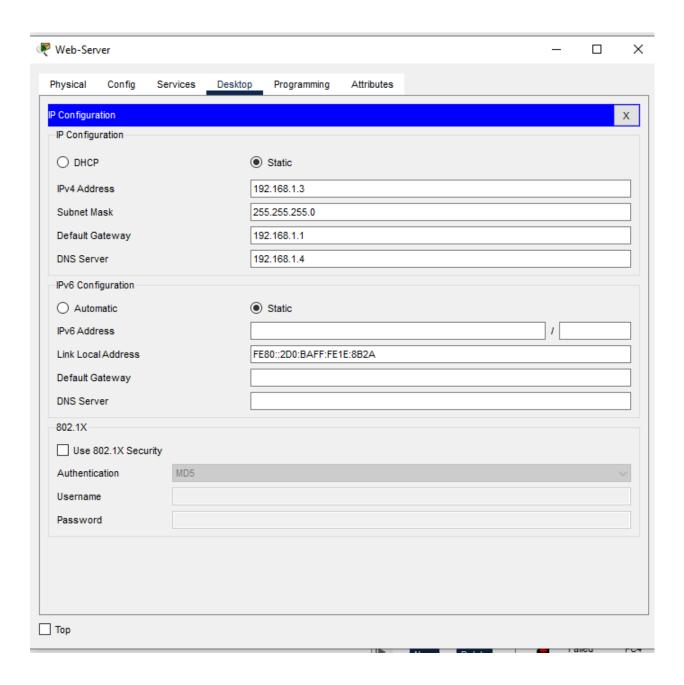
Now we configure all the servers and assign them their ip addresses For DHCP Server



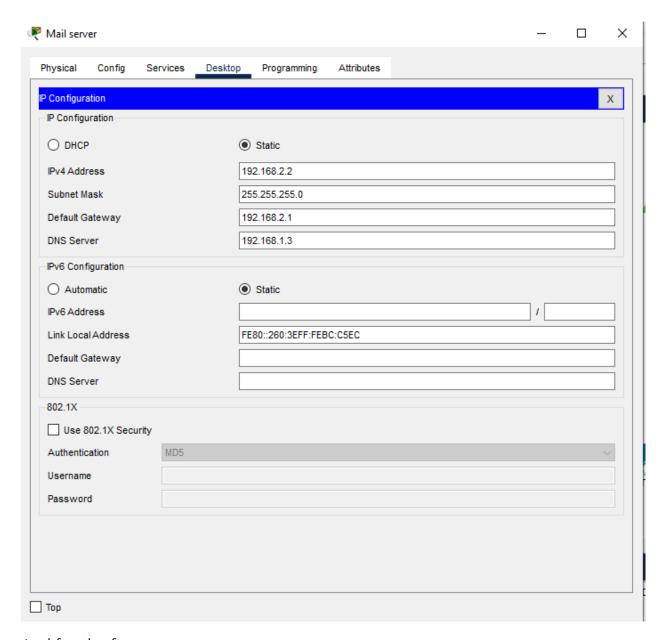
For DNS Server



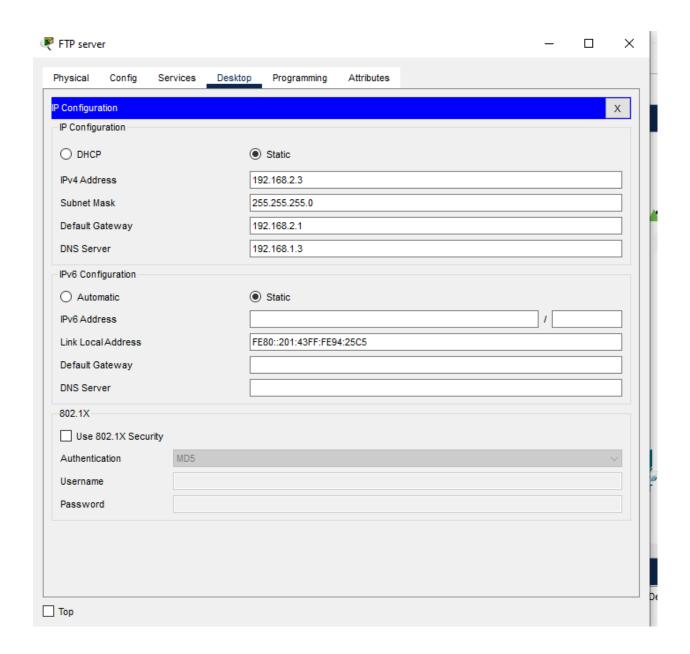
For web server



Now for the mail server

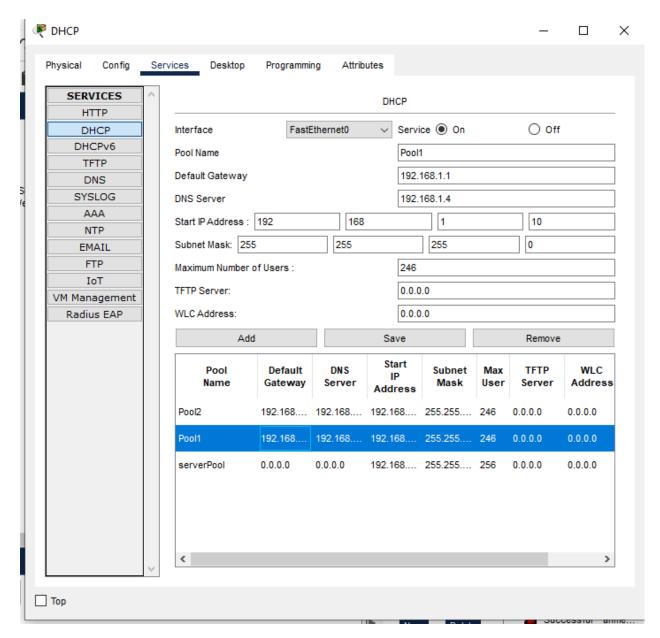


And for the ftp server

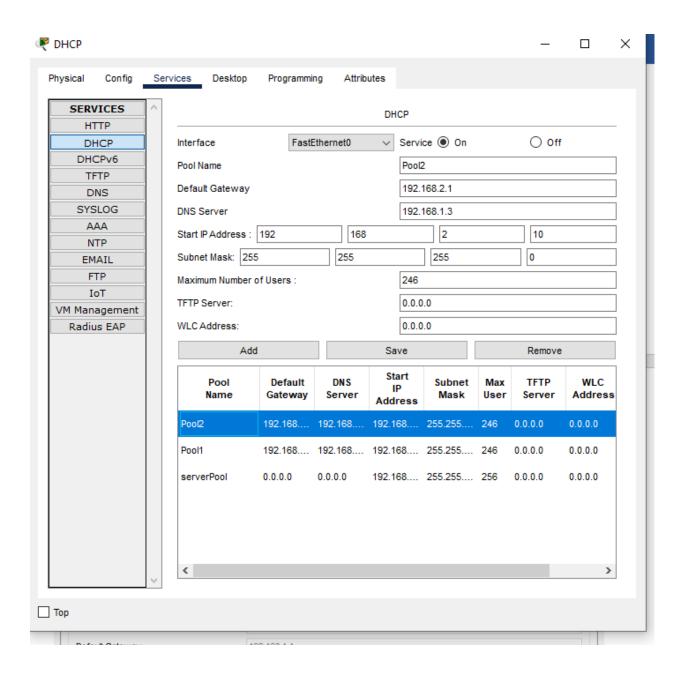


Now we go on DHCP server and go to services and go on DHCP connection and we add two new server pools

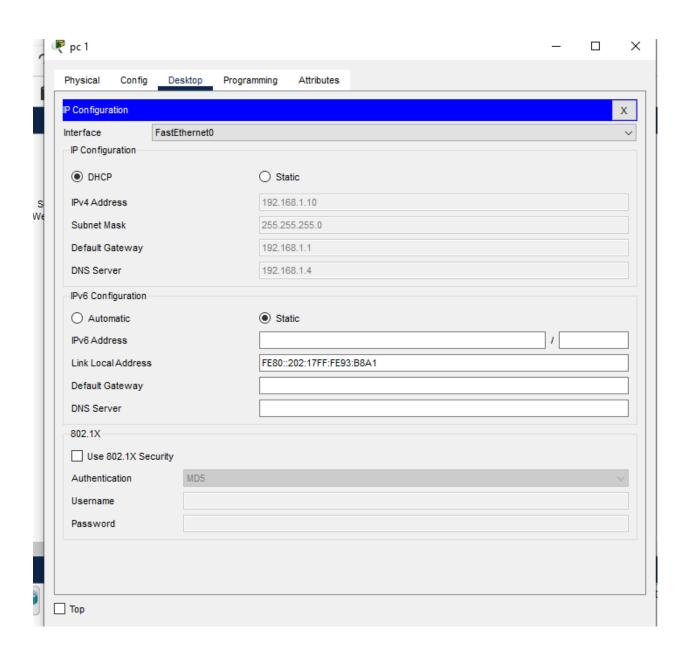
pool 1

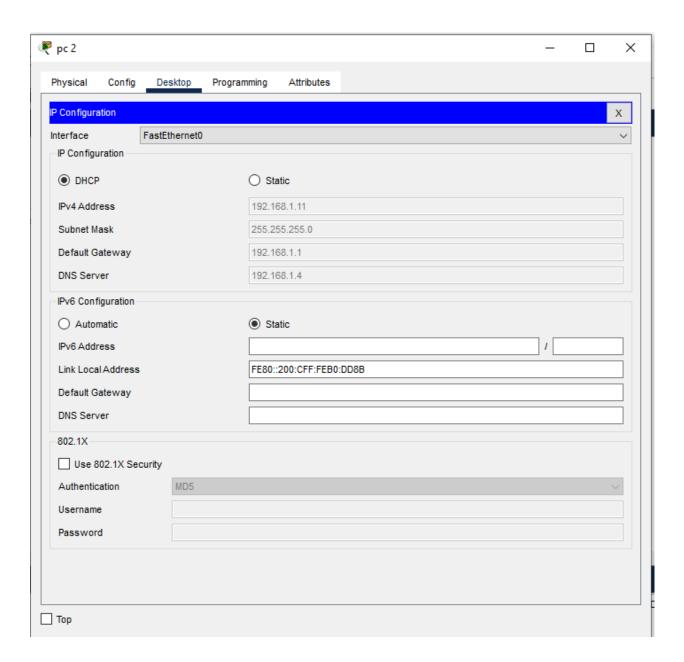


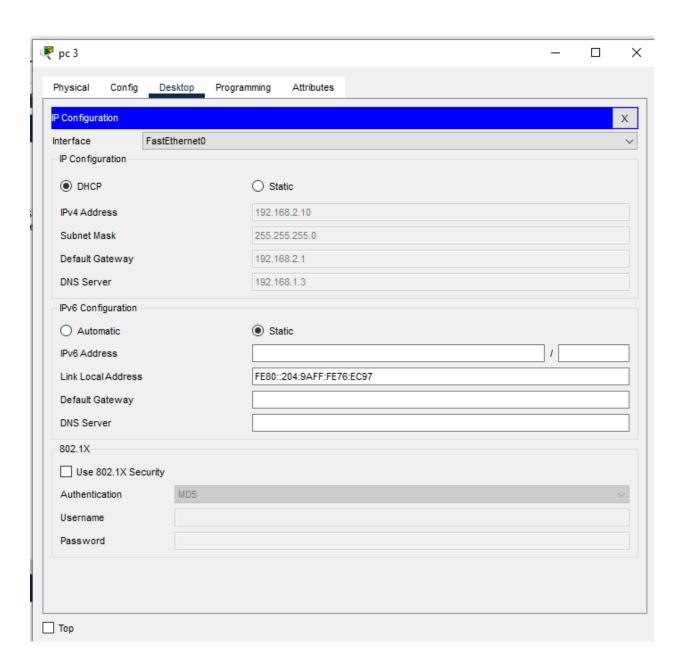
And pool 2

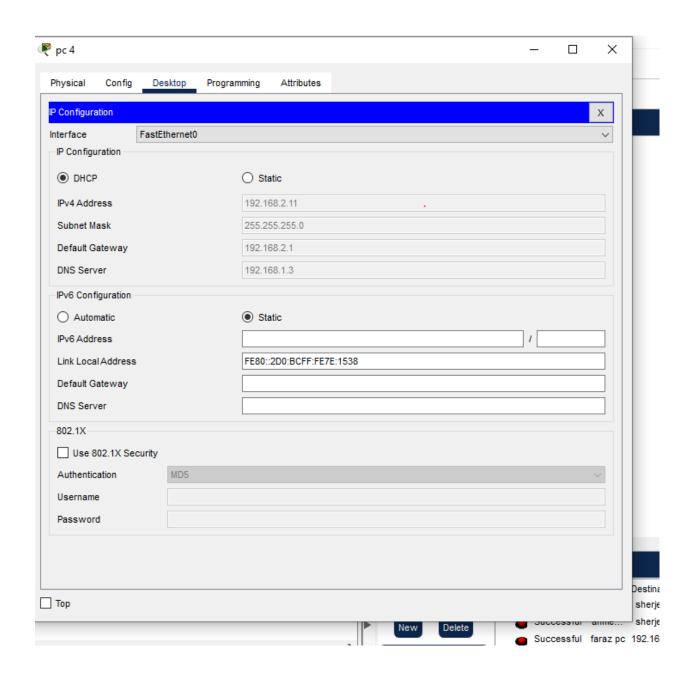


After that we go to the pc's and make their connection DHCP

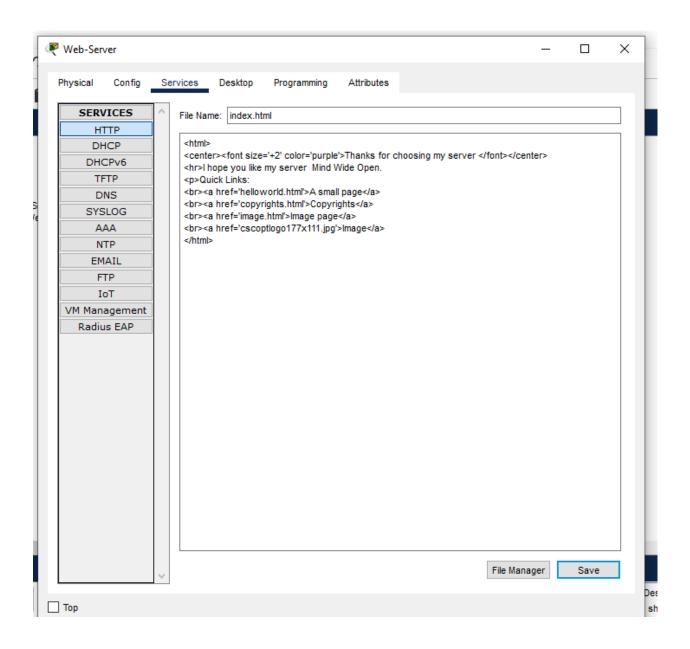




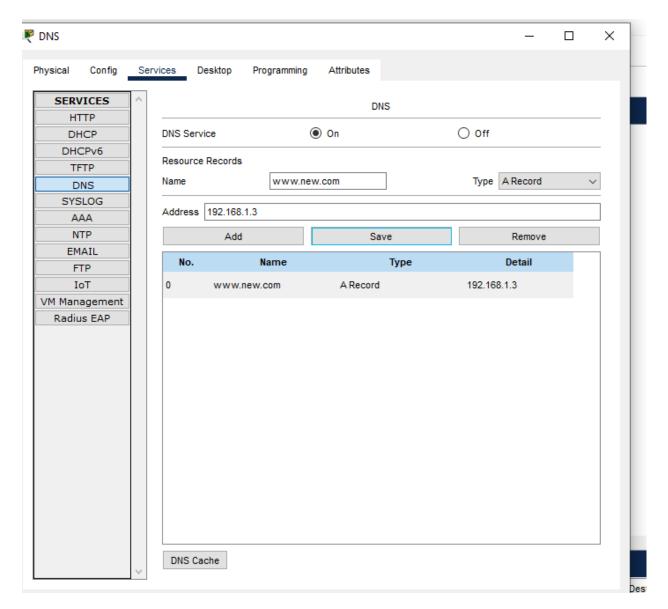




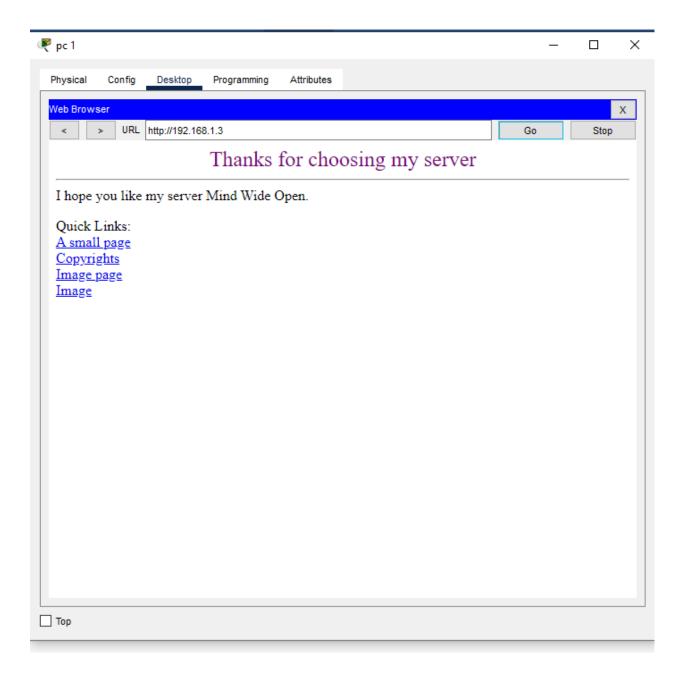
After that we open the web server and go to services and http And edit the html code



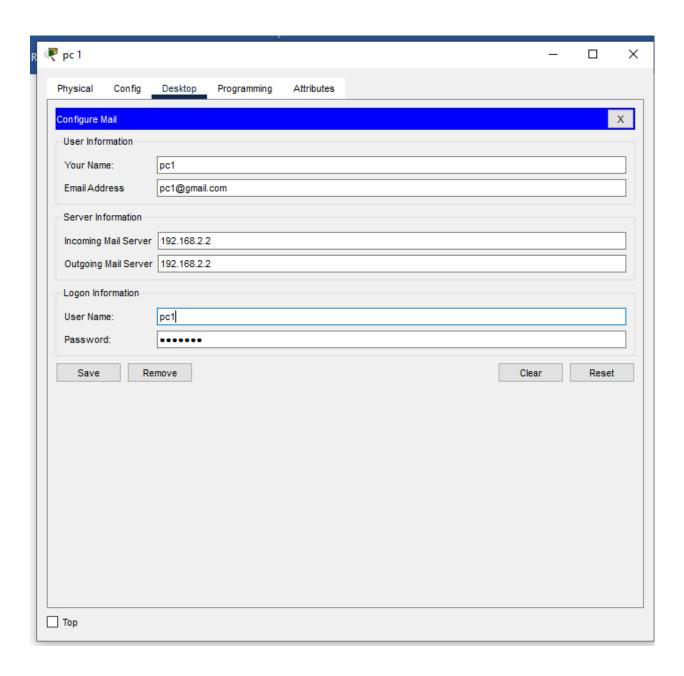
After that we go to the DNS server and go to services and add a domain name and add its ip address

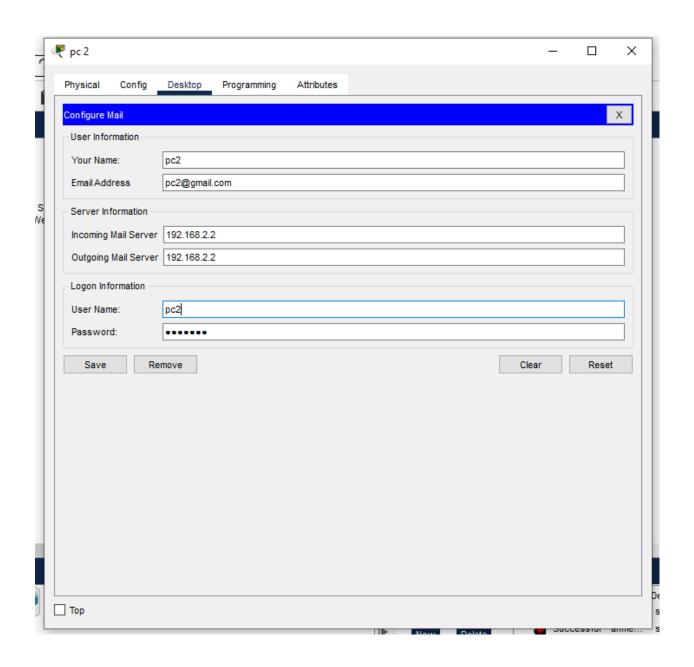


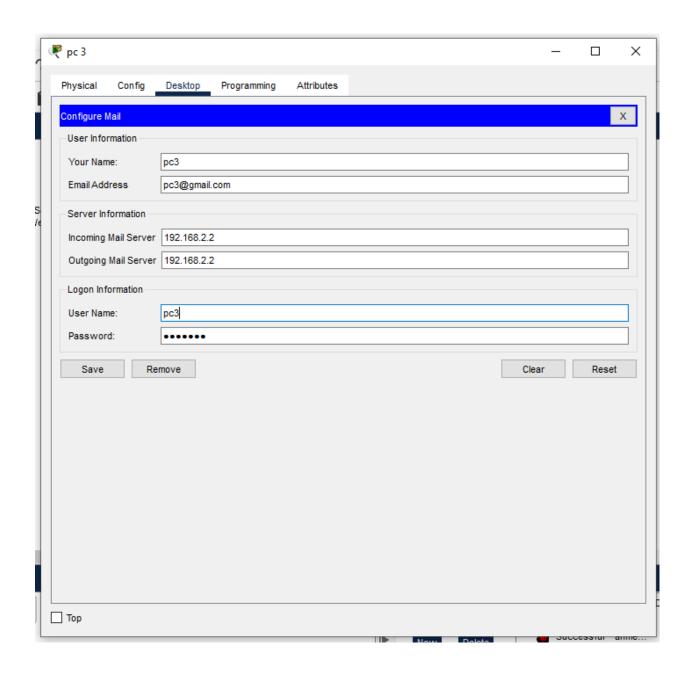
After saving this we open the web browser on our pc and write the ip address of the web server

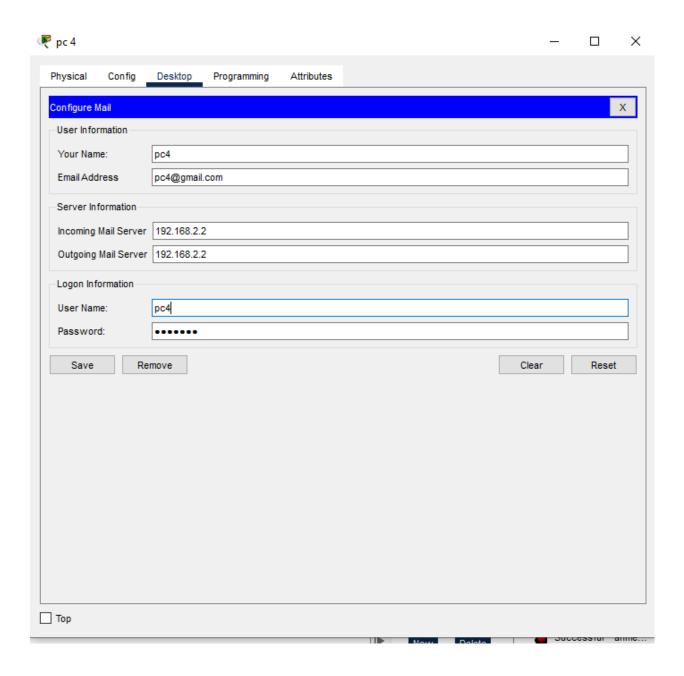


Then we set the email configuration for all the pc

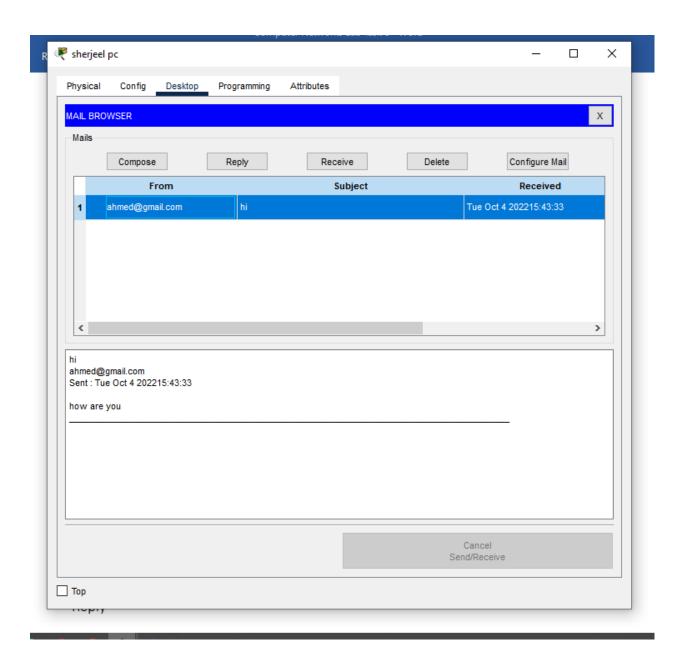




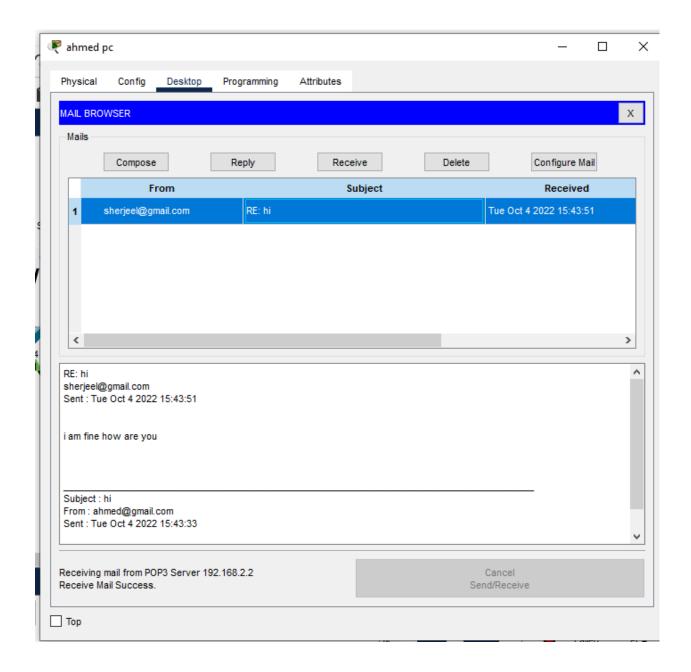




Then we send a mail from pc1 to pc2 and then pc2 reply back to pc1



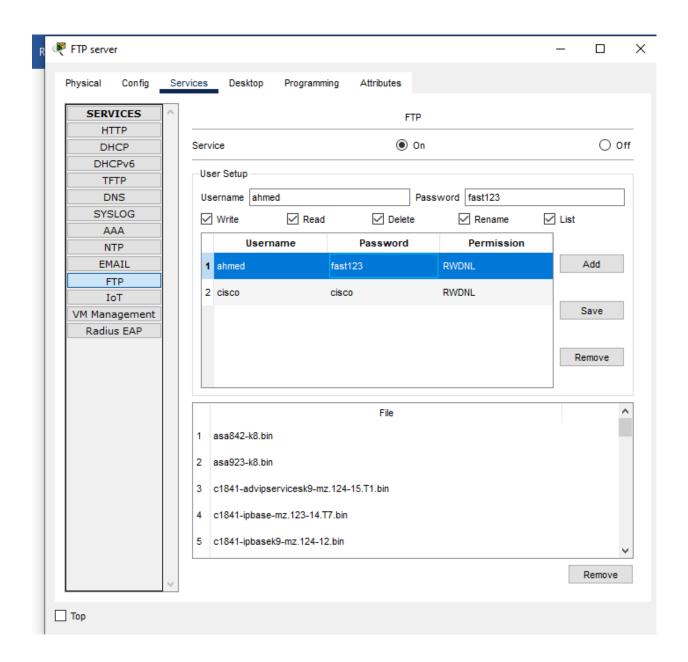
Reply



Now we go on to the ftp server and go on services and ftp over there we add username and password we set for the mail server

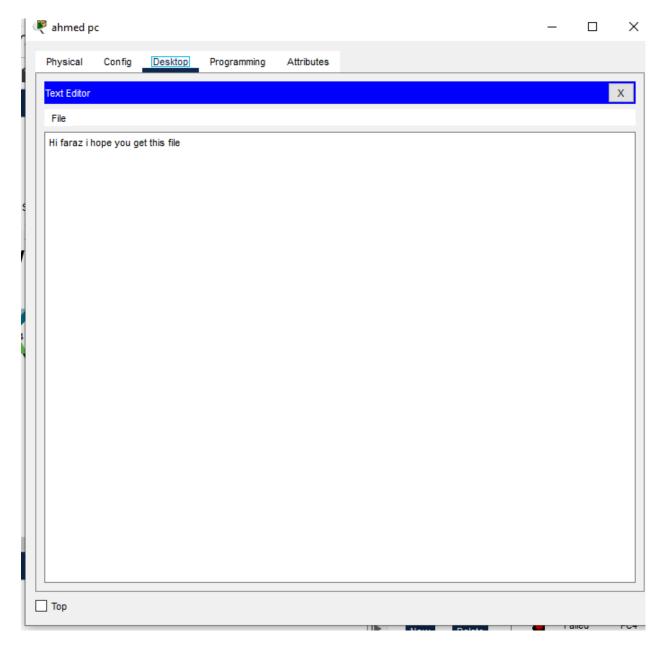
For example over here we write ahmed and pass fast123

And add and save

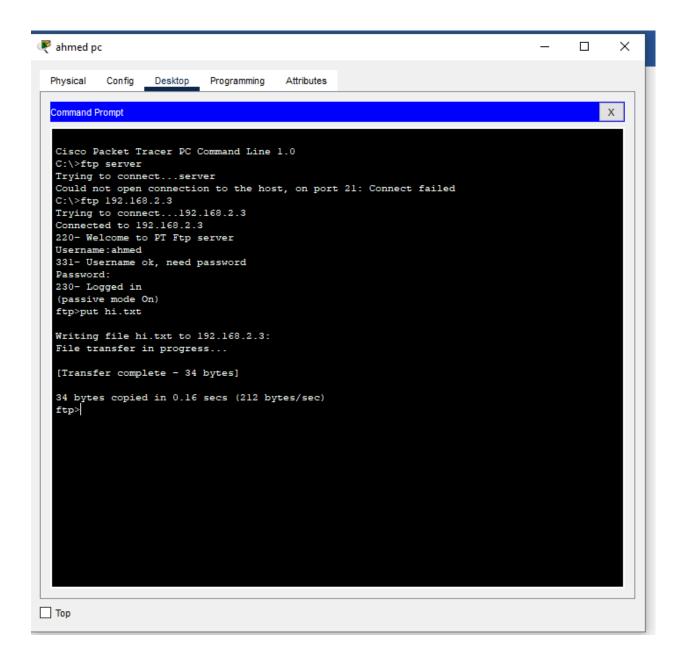


Now we check this we open faraz pc and get the information from the ahmed ftp First we made a file called hi.txt

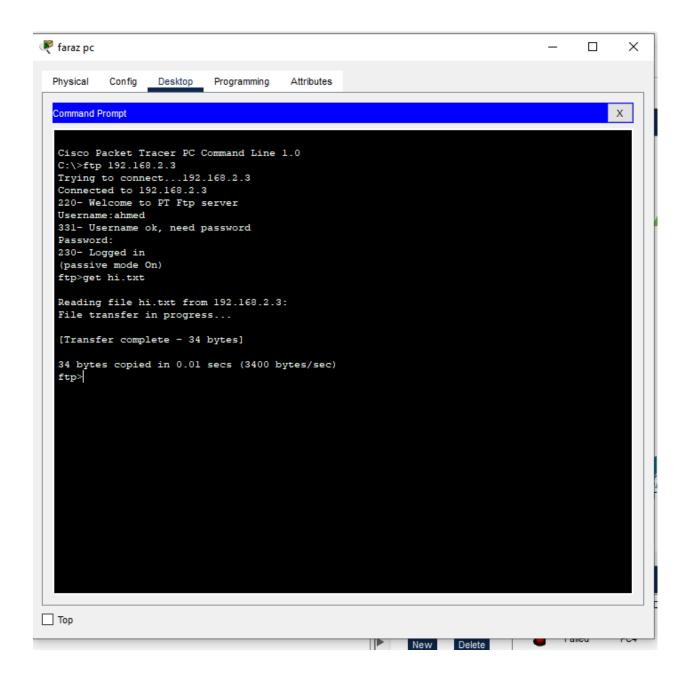
And wrote this



Now we open command prompt and put this in ftp server we connect by typing $\underline{\text{ftp}}$ $\underline{192.168.2.3}$ and enter ahmed username and pass and logged in and put the file hi.txt



Now we open faraz pc and get the file



Over her you can see the colored portion we have successfully got the file from ahmed pc through the ftp

