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Roll no:

20p-0153

Section:

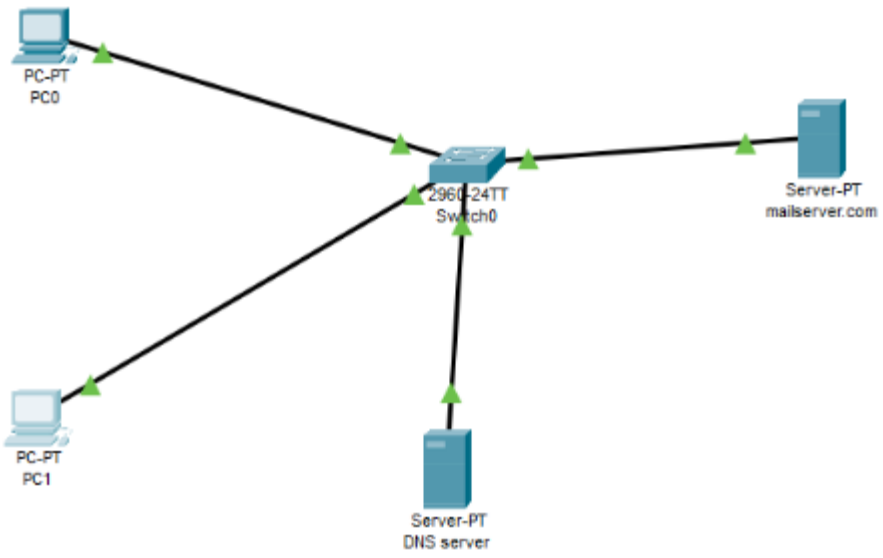
BSCS-5B

Computer Networks Lab (06)

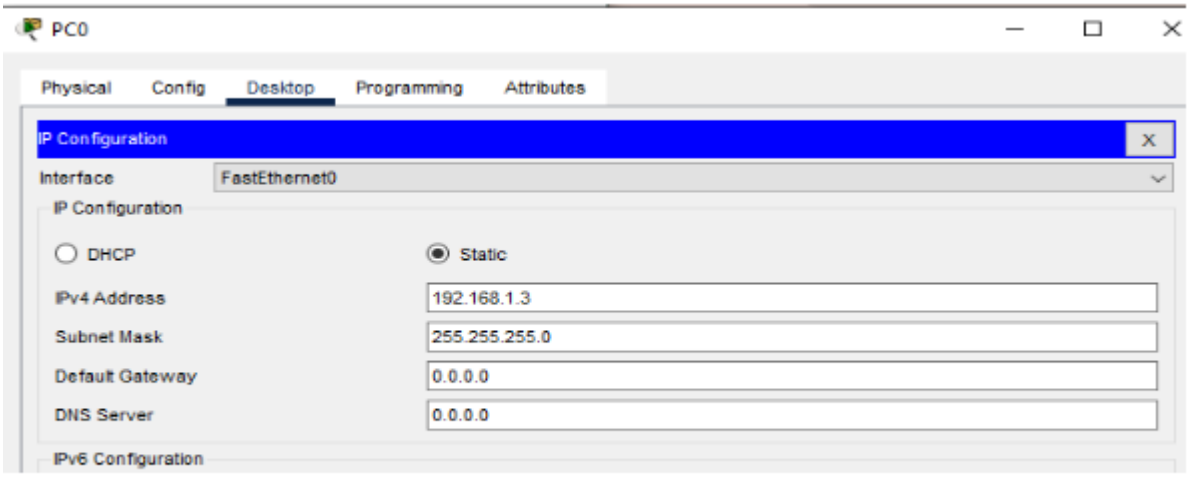
FAST NUCES-PWR Campus

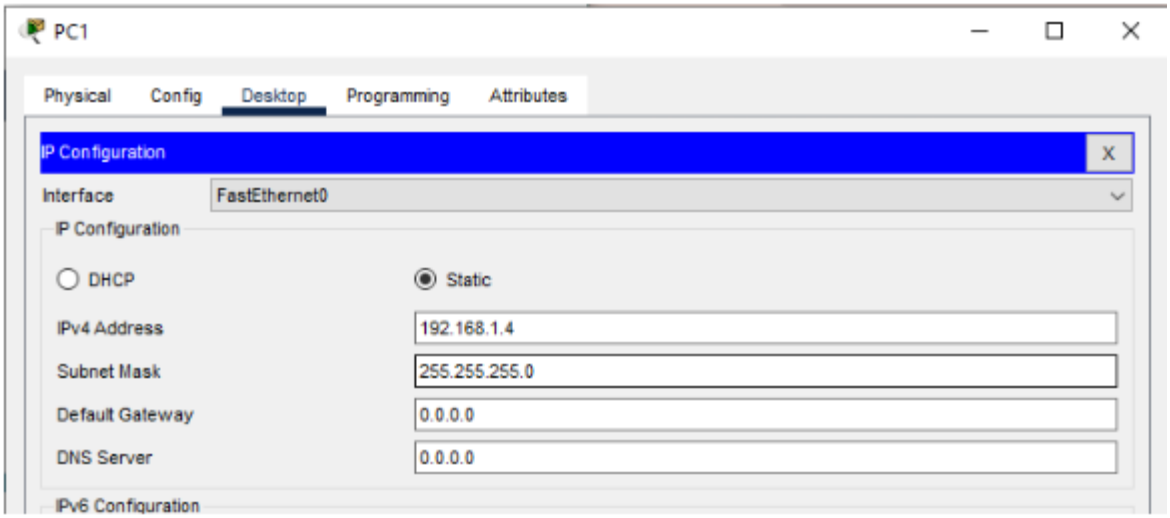
1. Configure an email server in Packet Tracer

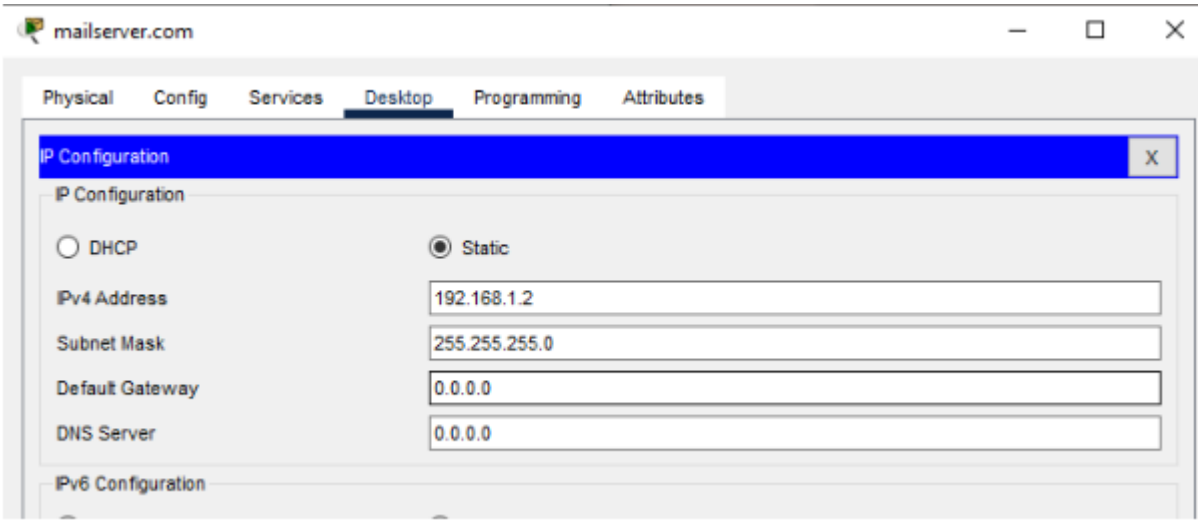
1. Build the network topology:



2.Configure IP addresses on the **PCs**, **DNS Server** and the M**ail Server**.



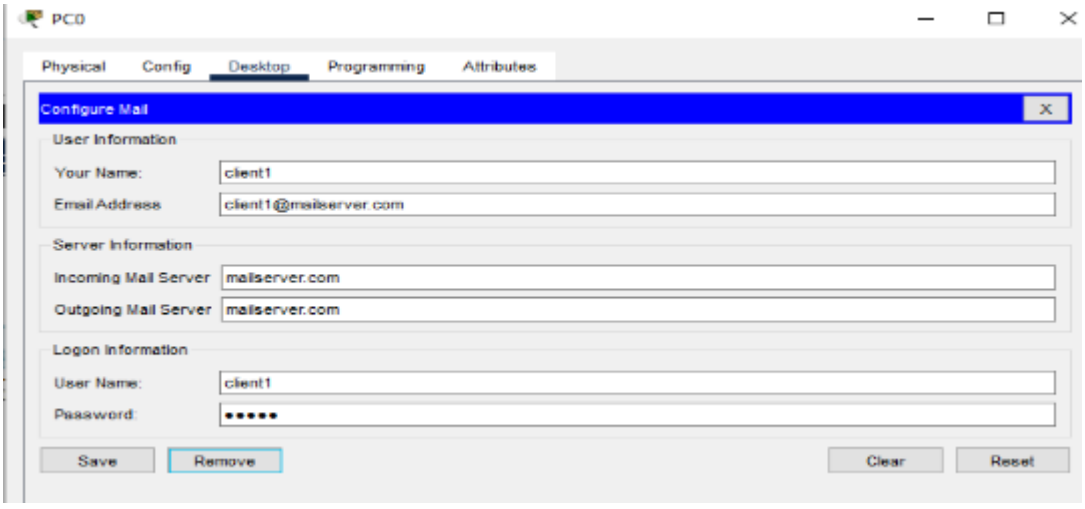

PC1
Physical
Config
Desktop
Programming
Attributes
IP Configuration
X
Interface
FastEthernet0
IP Configuration
DHCP
Static
IPv4 Address
192.168.1.4
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration

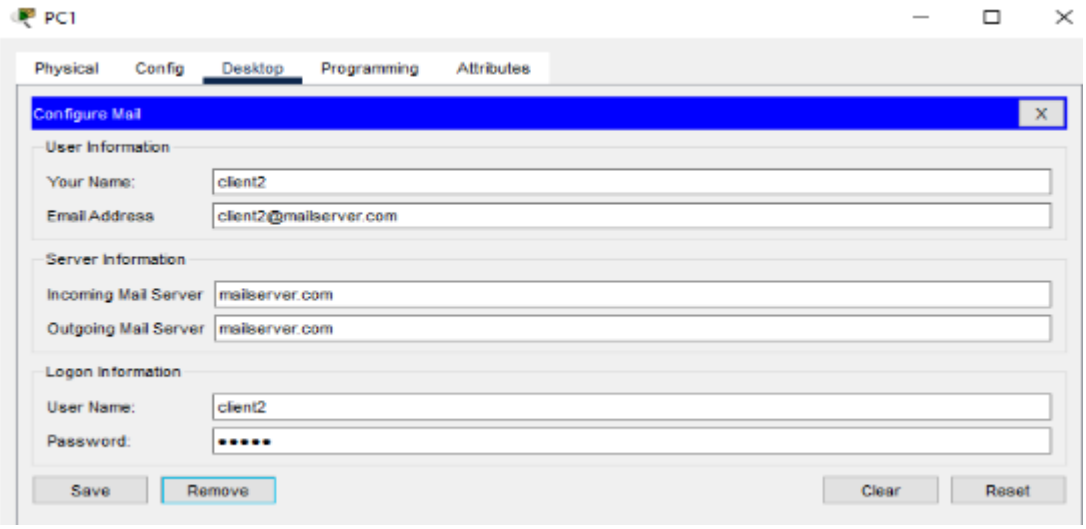

mailserver.com
Physical
Config
Services
Desktop
Programming
Attributes
IP Configuration
X
IP Configuration
DHCP
Static
IPv4 Address
192.168.1.2
Subnet Mask
255.255.255.0
Default Gateway
0.0.0.0
DNS Server
0.0.0.0
IPv6 Configuration

3.

Now configure **mail clients** on the **PCs** and **mail service** on the **generic server**.

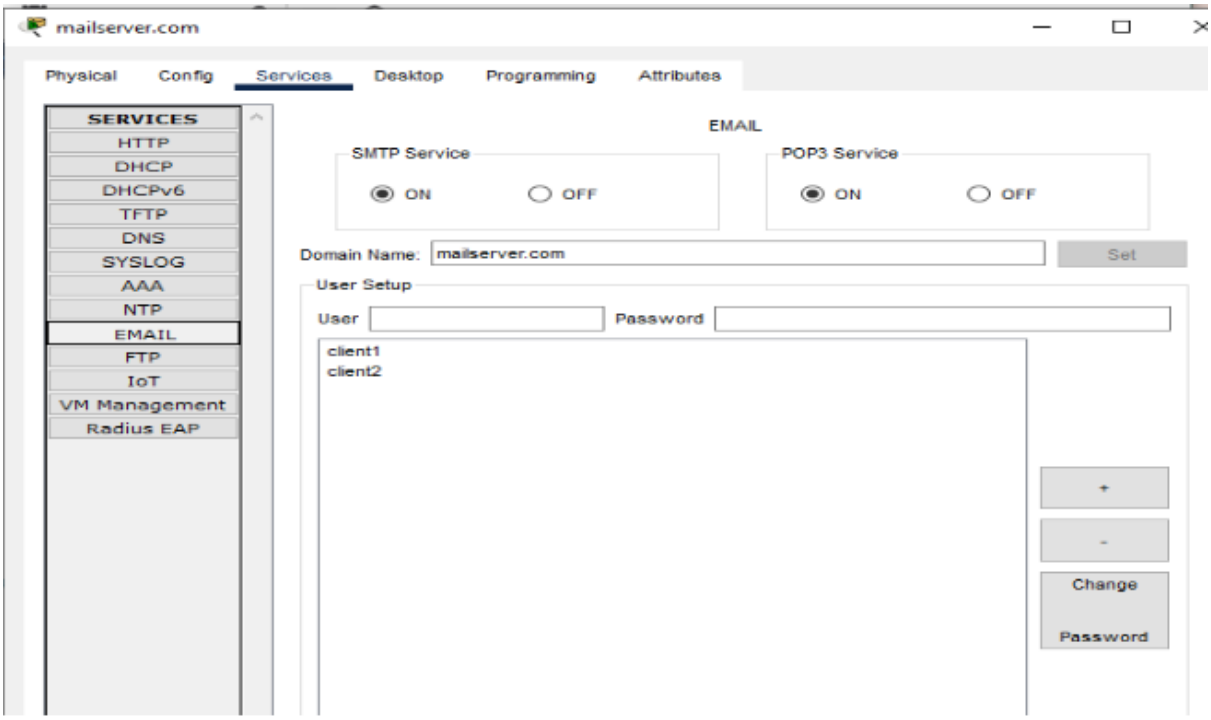
Click on **PC0**. Go to its **Desktop** tab, and click on **Email.** Configure the email client by filling in the user, server and login information. Be sure to **Save.**





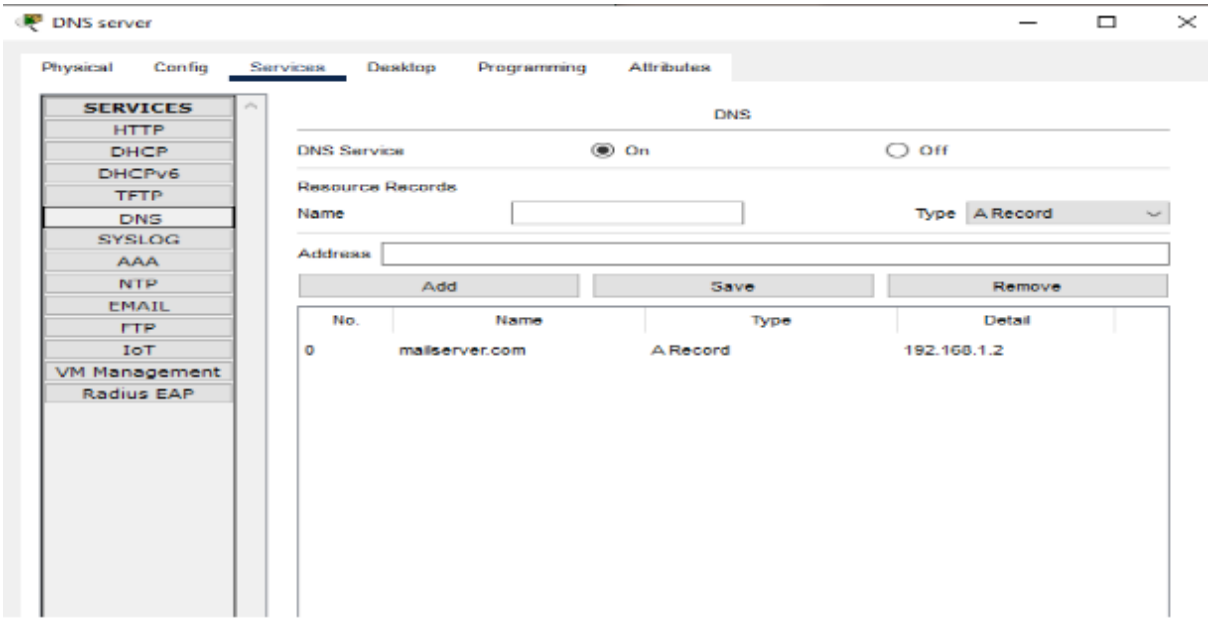
Next, we'll configure the **email server.**To do this, click on the server, then click **Services** tab, pick **email** server from the menu.Provide the **Domain name** of the server then click on **Set** to set it. In this example I've used the name 'mail.com' Proceed and add **users** and provide their **passwords**. I have two email clients(users) with usernames 'client1' and 'client2' with a common password '12345'

After entering a username and password, click on **Add(+)** to add the user to the server. You can optionally remove a user by clicking on **Remove (-).** You can change a user's password by clicking on **change password.**

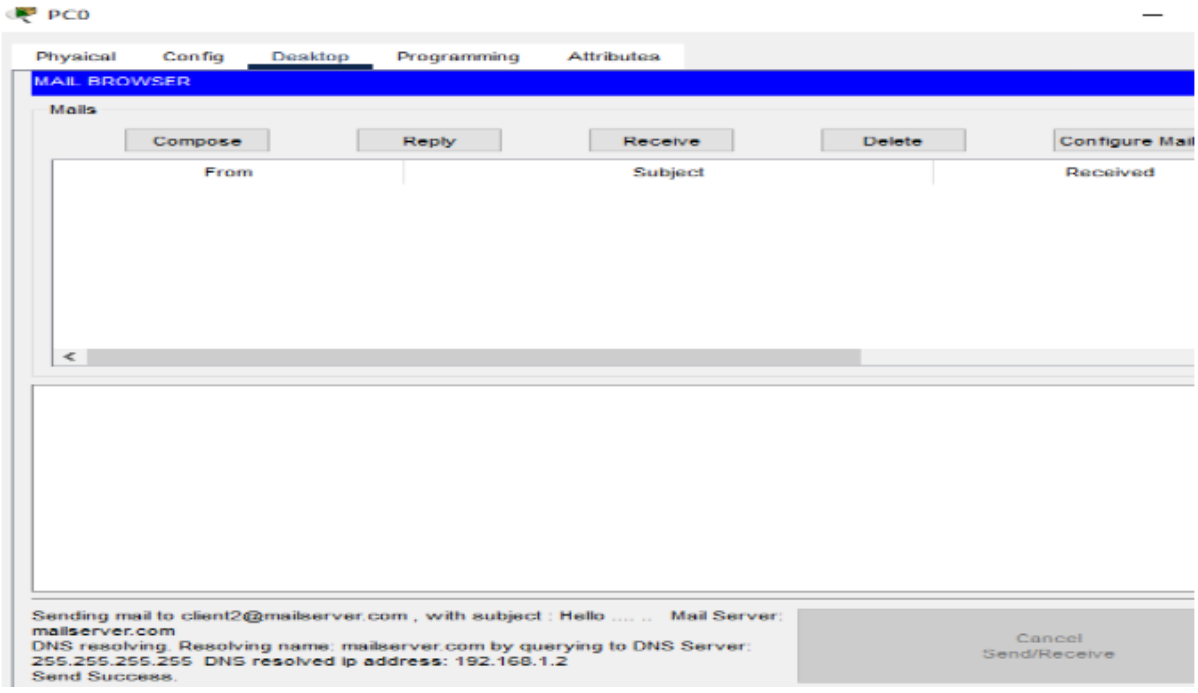


Now, notice that we set a **domain name** for the email server. For that reason, we should have a **DNS server** that will resolve this domain name (plus other domain names if there were) to an IP address.

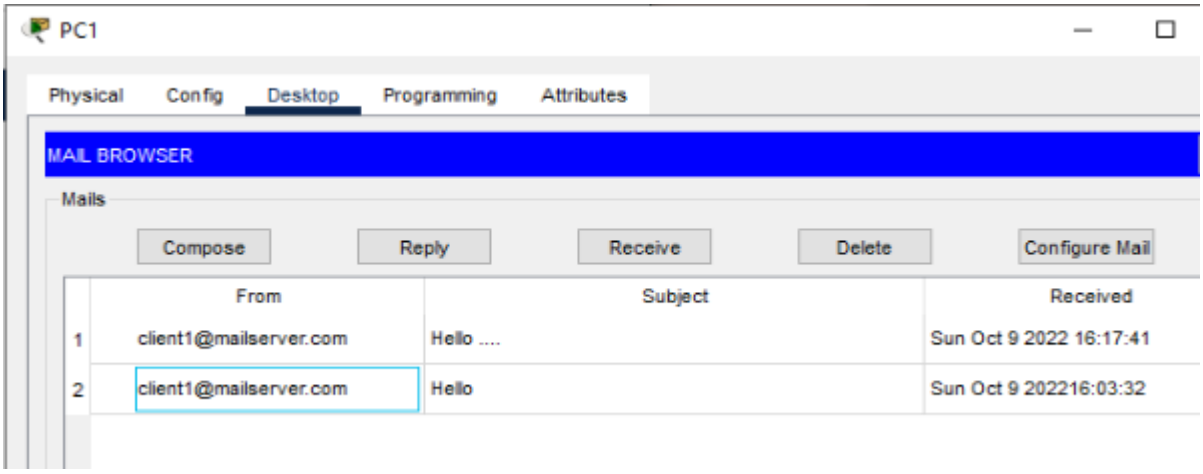
So let's configure a DNS server.Click DNS server, click **Services** tab, then pick **DNS**. Turn the service **ON.** Set name-address pairs and add them to the server. You can view the DNS entry below:

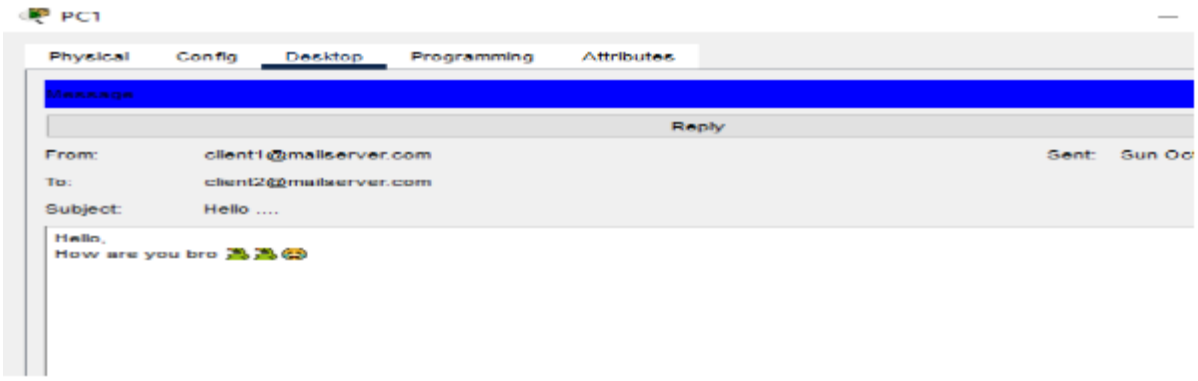


4. Lastly, test the email service. Go to **PC0 email** client, **compose** an email and **send** its to **PC1** email address (client2@mailserver.com).



Try to see whether the email from **PC0** is received on **PC1**. On the **email** client of PC1, click on **Receive.**

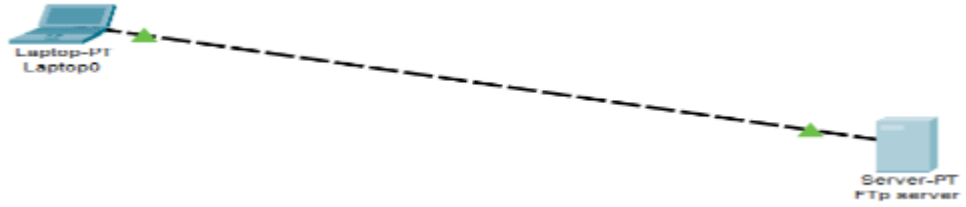




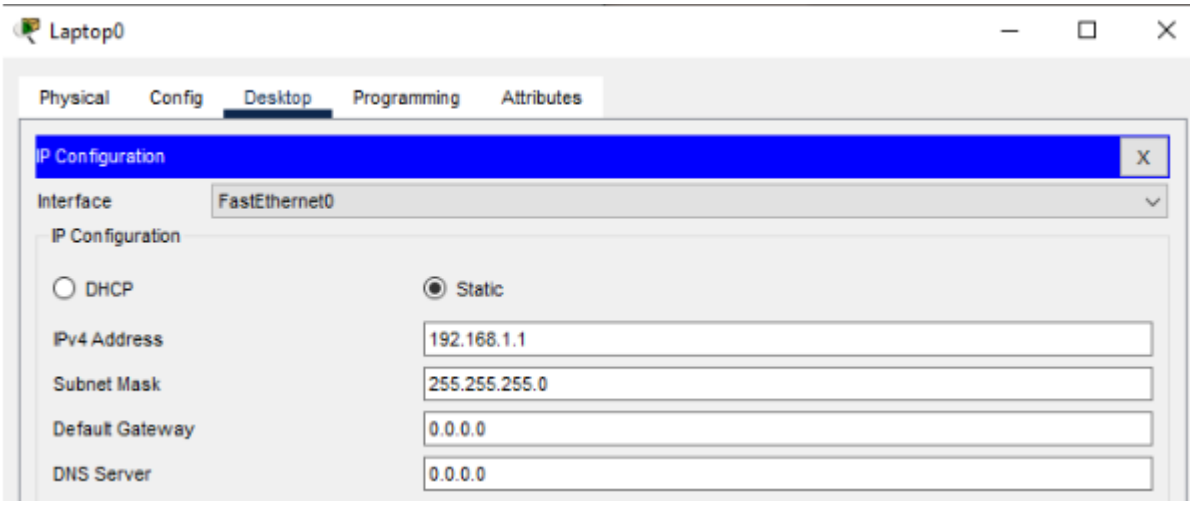
If everything is well set up, the email from **PC0** will be well received on **PC1**.

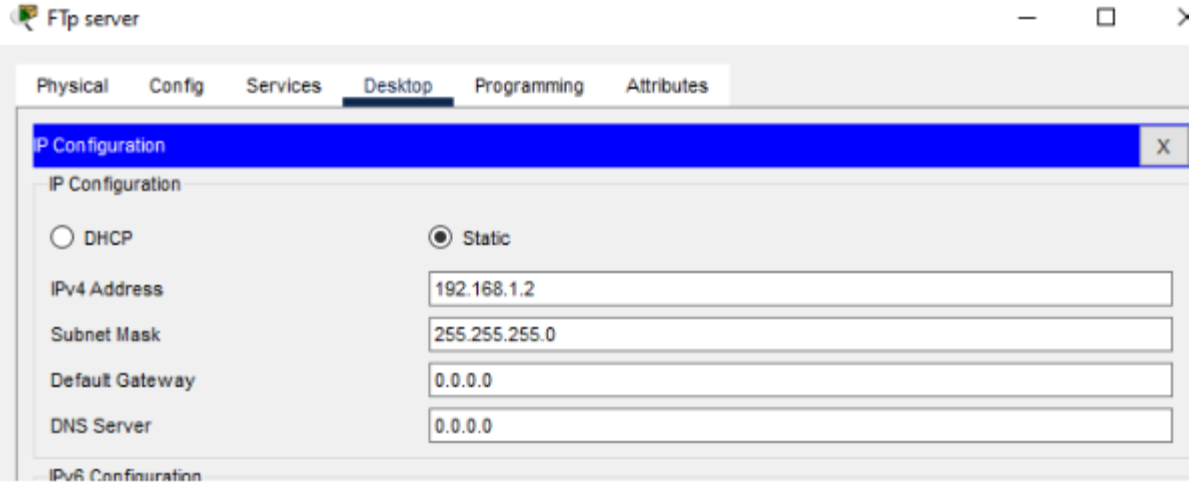
2. Configure an FTP server in Packet Tracer

1.Build the network topology.



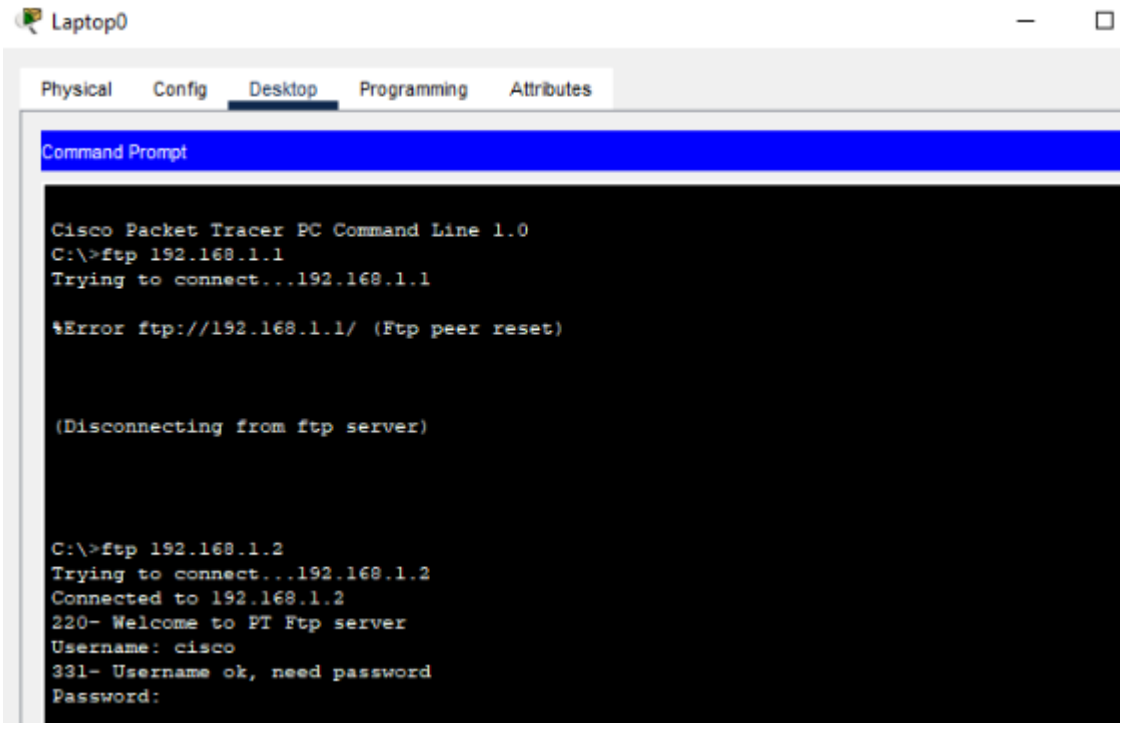
Configure static IP addresses on the Laptop and the server.



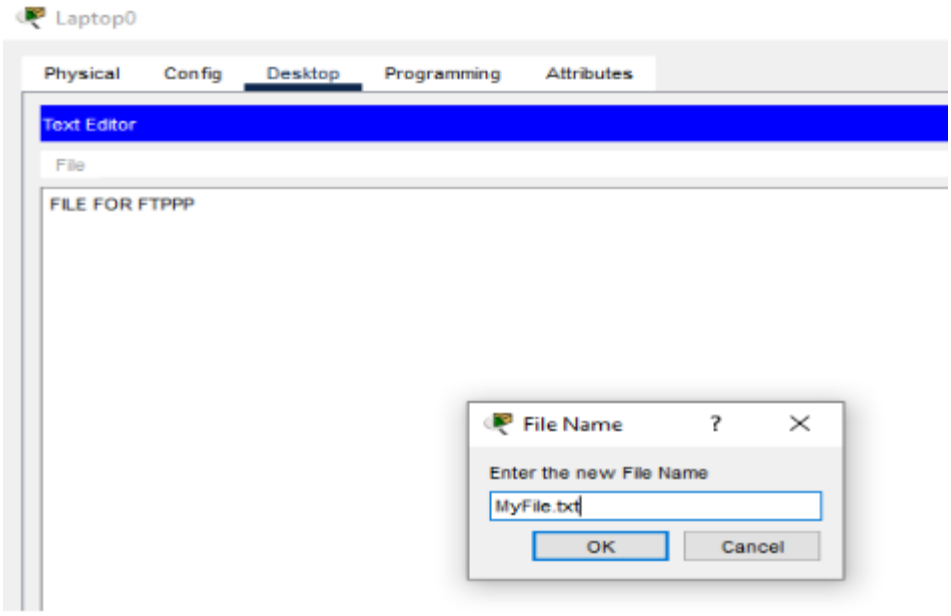


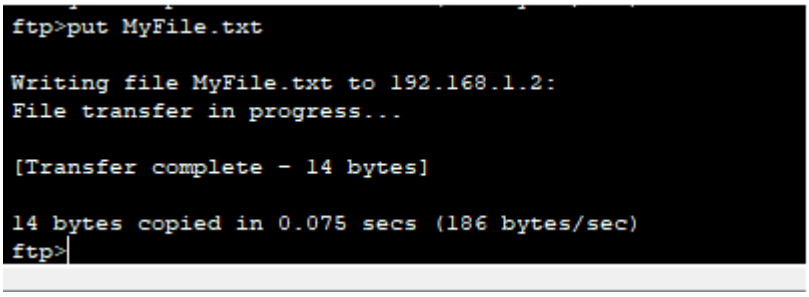
3. Now try using an **FTP client** built in the Laptop to send files to an **FTP server** configured in the Server.

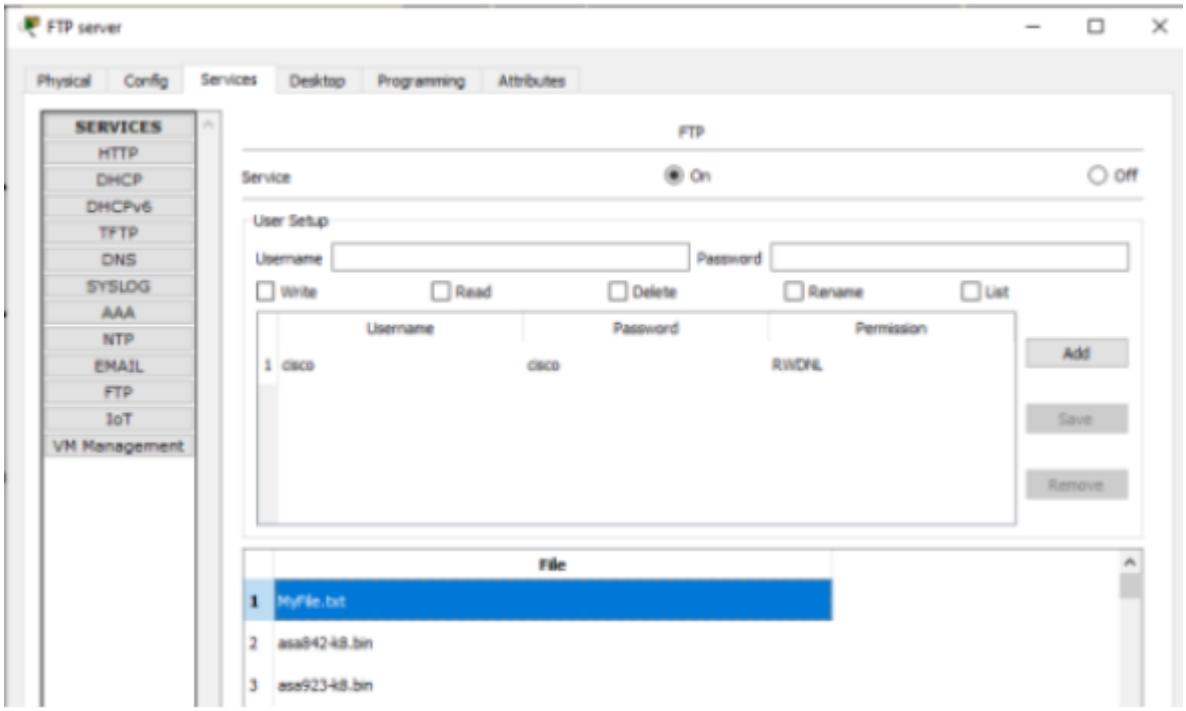
Provide the **username**(cisco) and **password**(cisco) [which are the defaults] for ftp login.



4. **Create** a file in the Laptop then **upload** it to the server using **FTP**.





5. Once file upload is successful, go to the Server **FTP directory** to verify if the file sent has been received . To do this, go to **Server-> Services->FTP**. Here look for MyFile.txt sent from the laptop.
6. 

FTP Server configured

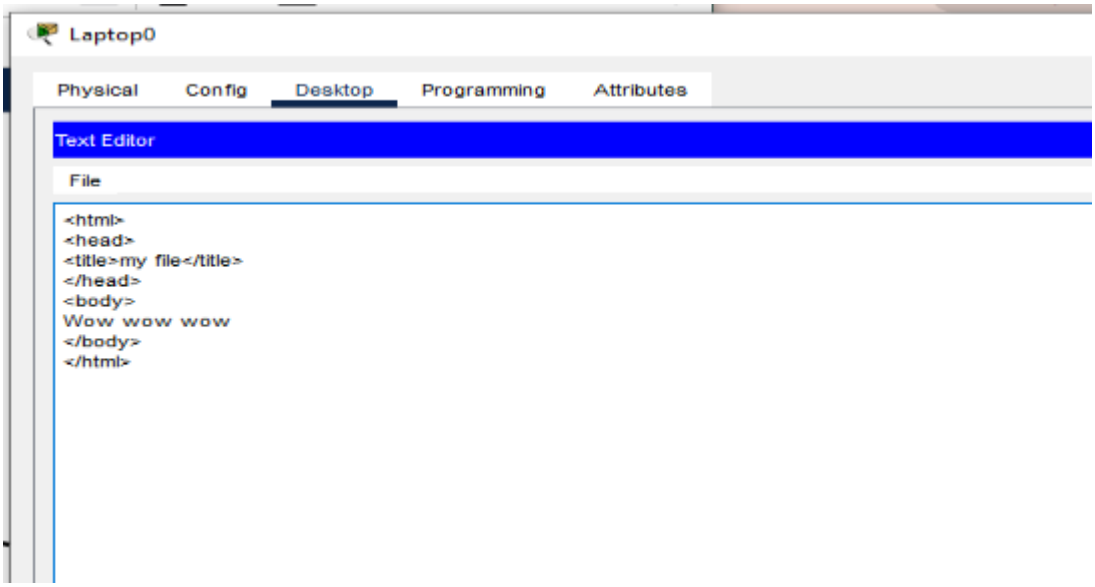
2. Create and Upload html file to HTTP server directory Using FTP

Following ftp topology used above

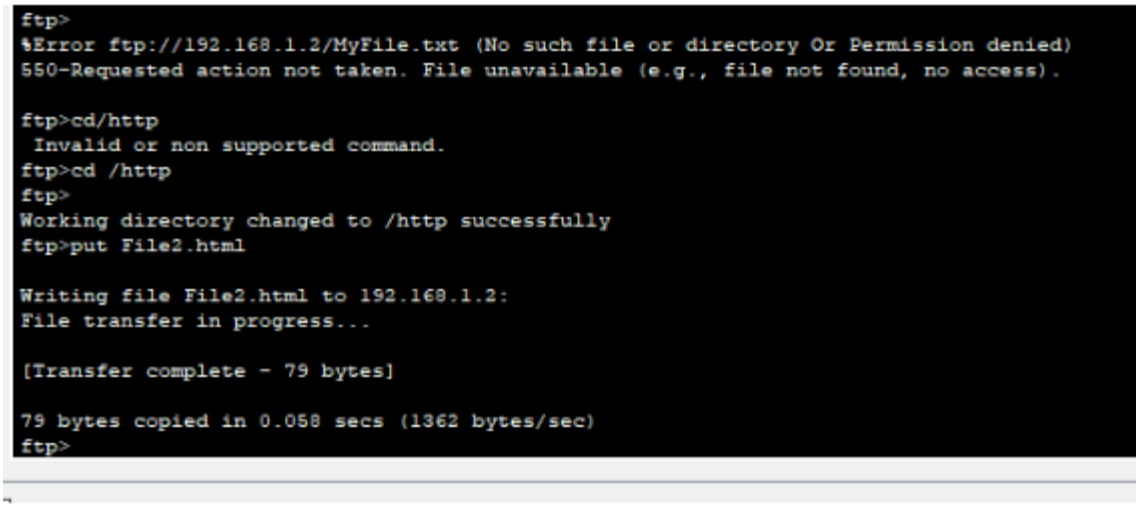
We will create and upload html files to the http server.

On the Laptop, open the **text editor**, then type some markup(html) and save the file with the extension *.html*.

See all this below:

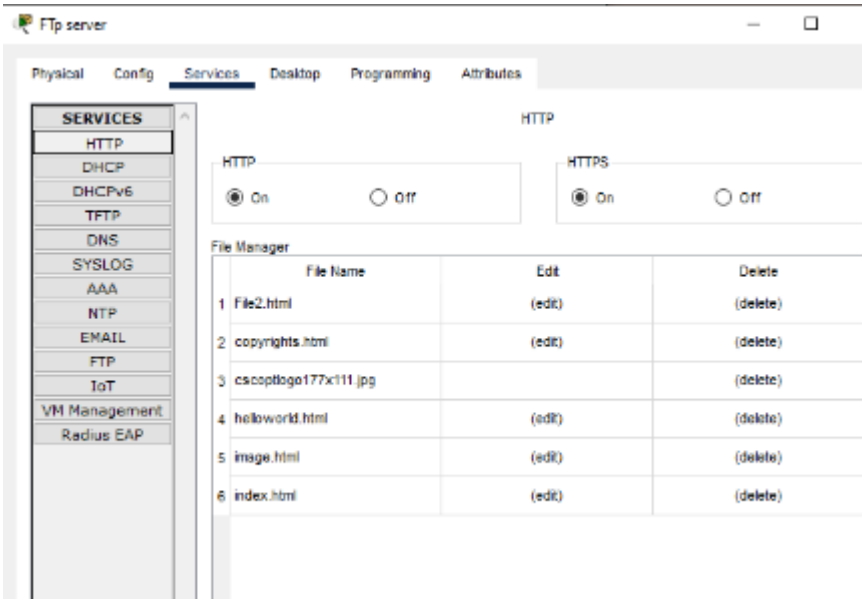


Now upload the file(File2.html) to the HTTP server using FTP. change the current directory to HTTP(cd /http) , and finally upload the html file onto the HTTP directory(put File2.html)



Moving on… Check whether the html file uploaded has been received in the HTTP directory:

Go to **Server->Services-> HTTP**. Then look up for the file in the File Manager.



HTML file also uploaded to http using FTP.