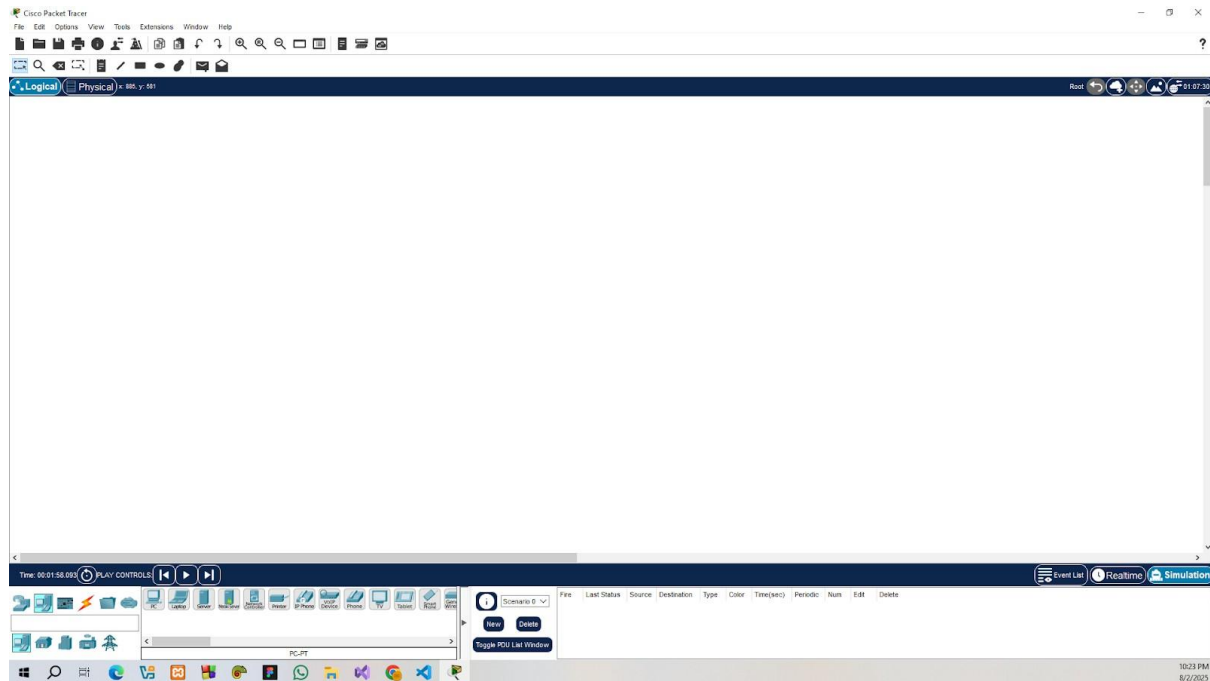


Experiment Name: SMTP Server configuration

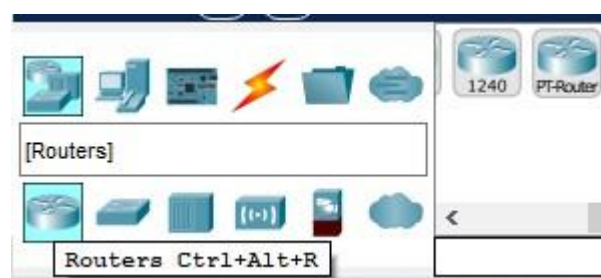
Devices and Component List: Device name Cisco Packet Tracer

Step 1: First of all, start Cisco Packet Tracer

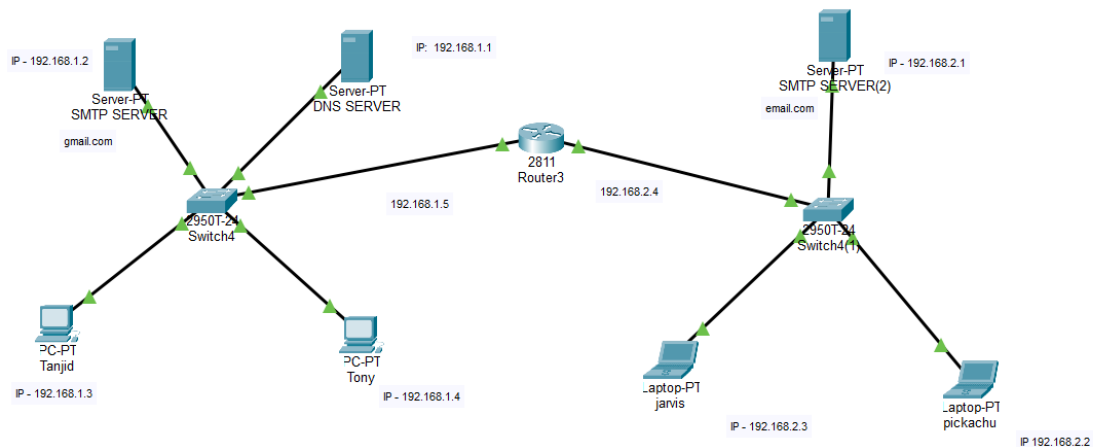


Step 2 : Before setting up the network layout, it's important to first decide which devices (like routers, switches, and end-user equipment) to use and determine how they will be connected. This selection process ensures the network will function effectively once built.

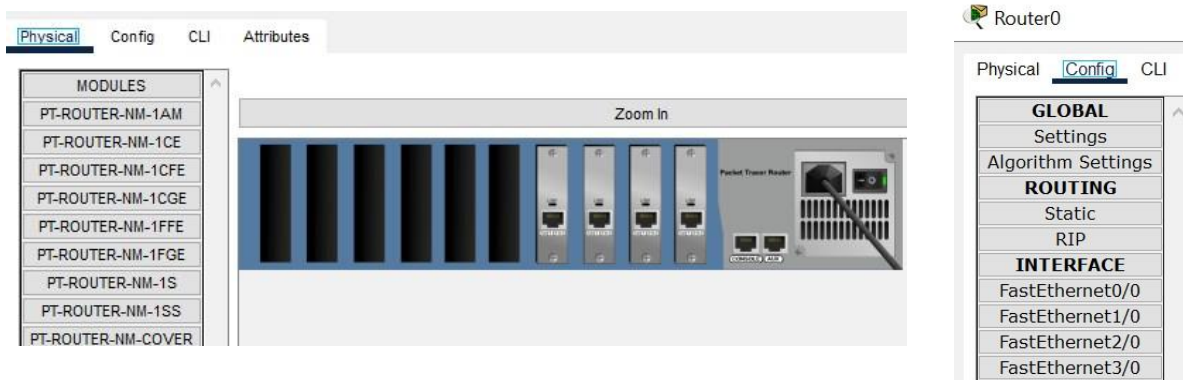
We will use **Switches, Connections, Devices (PC), and Routers.**



Step 3: Creating the network by connecting all required devices.



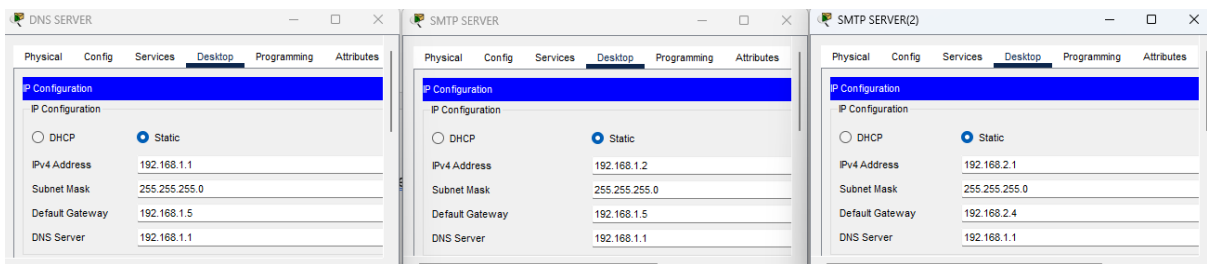
Step 4: Setting up the router's port in Physical mode. After setting up the router port, configure the router in the CLI by giving some command. Which are shown below. As our network has only two Ethernet ports, we will only configure the ports fa0/0 & fa1/0.



Step 5: I have written the code to configure the Router.

My FastEthernet 1/0	My FastEthernet 0/0
<pre>conf t int f0/0 ip add 192.168.1.5 255.255.255.0 no sh</pre>	<pre>conf t int f0/1 ip add 192.168.2.4 255.255.255.0 no sh</pre>

Step 6: Assign a unique IP address, subnet masks, and a default gateway to each Server in the network.

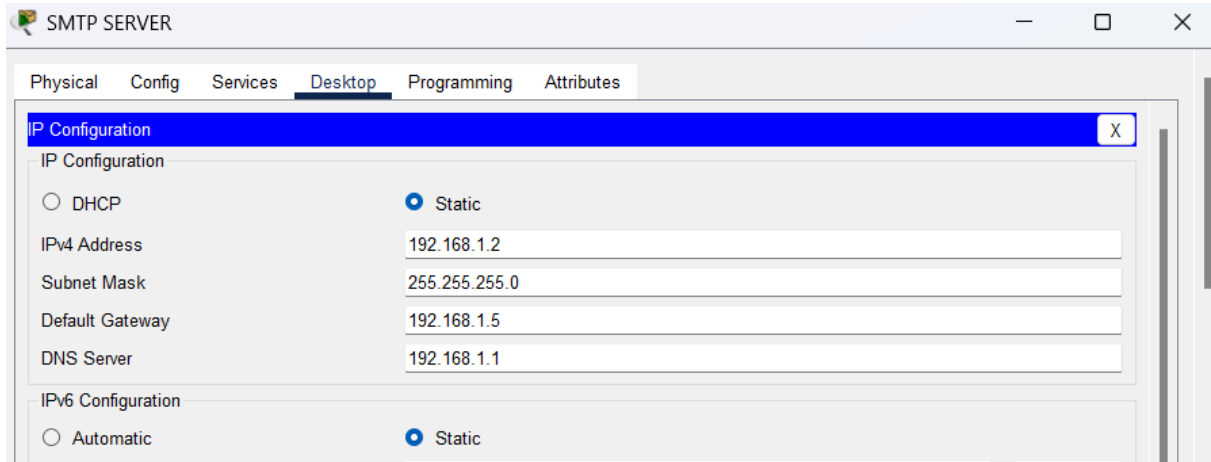


IP addresses I assigned for Server's are:

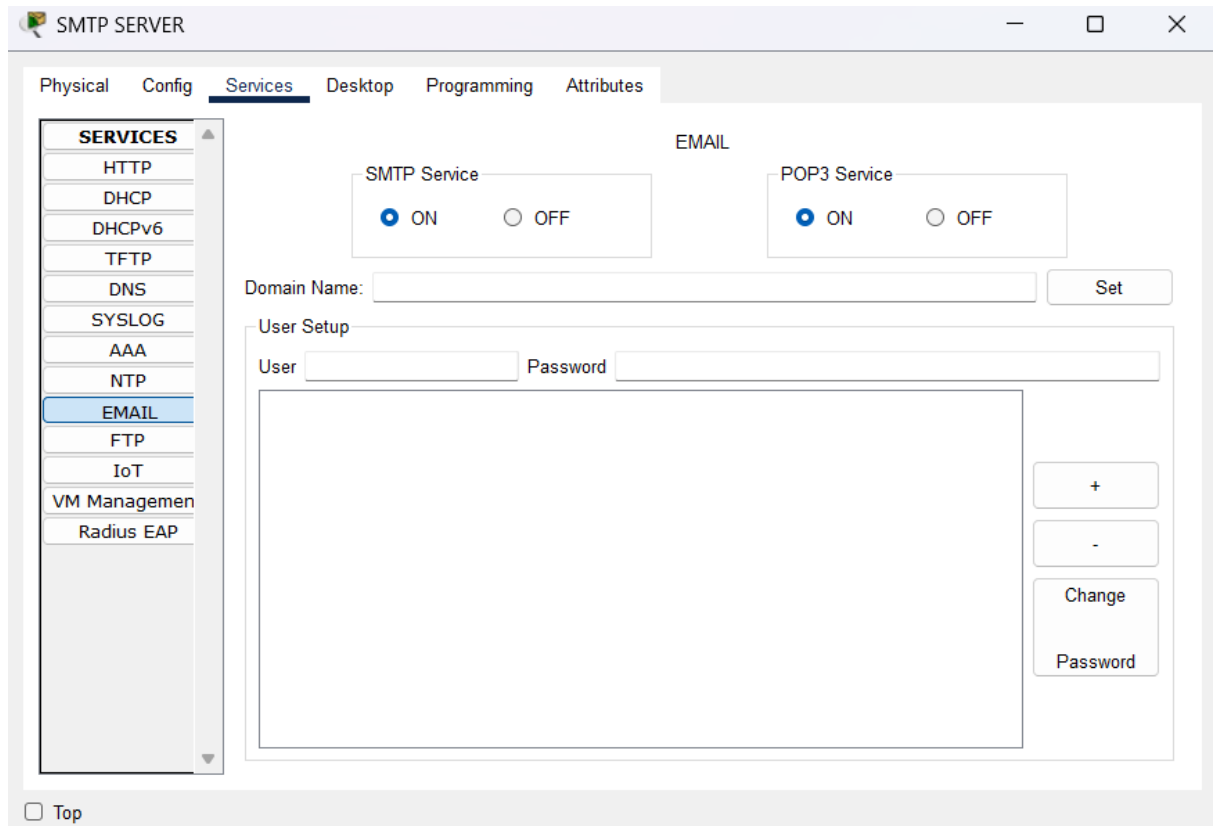
SMTP SERVER: <u>Turn On DHCP</u> IP: 192.168.1.2 Subnet mask: 255.255.255.0 Default gateway: 192.168.1.5 Dns: 192.168.1.1	DNS SERVER: <u>Turn On DNS</u> IP: 192.168.1.1 Subnet mask: 255.255.255.0 Default gateway: 192.168.1.5 Dns: 192.168.1.1	SMTP SERVER(2): <u>Turn On HTTP</u> IP: 192.168.2.1 Subnet mask: 255.255.255.0 Default gateway: 192.168.1.4 Dns: 192.168.1.1
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SMTP SERVER Configurations:

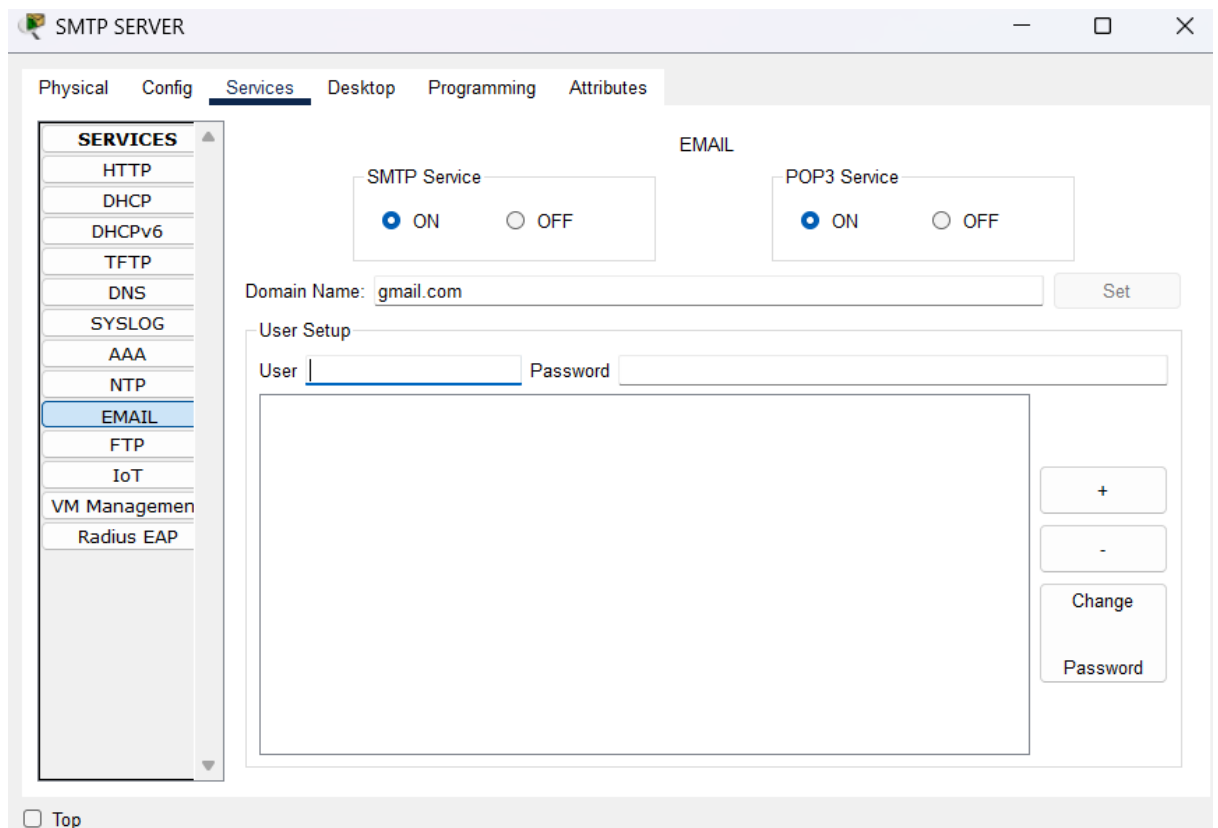
1. Make sure Setup Ip and Default Gateway:



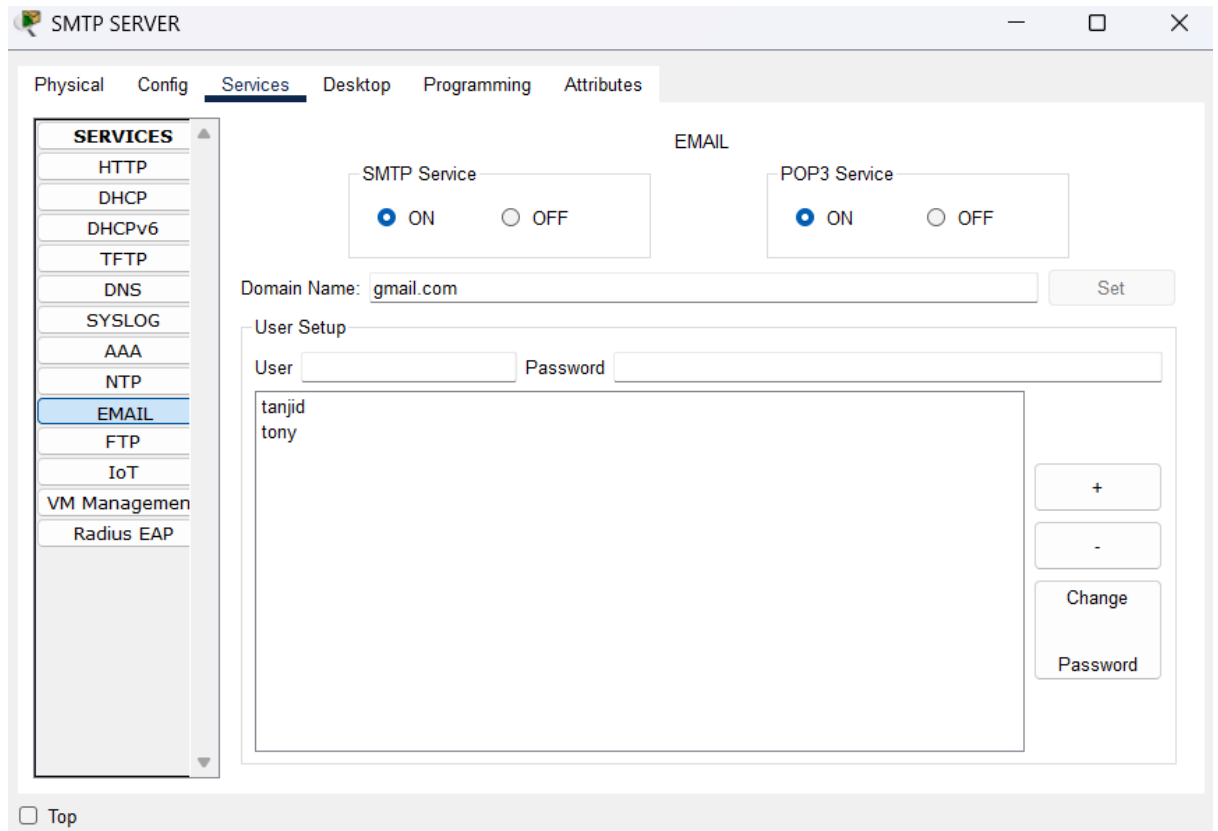
2. Now Go to **Services** and Select **EMAIL**:



- Now Give a Domain Name which is Register in DNS Server when DNS configurations:

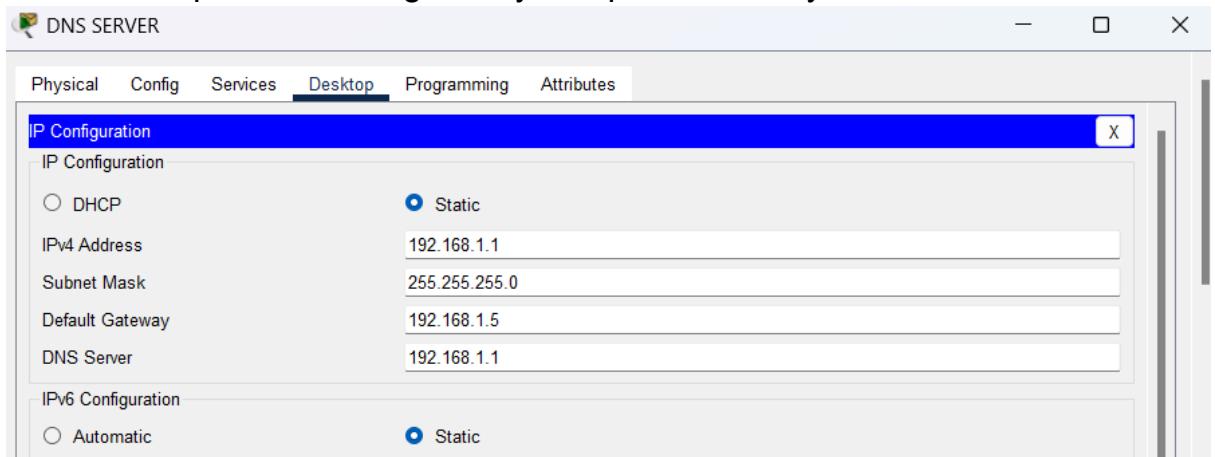


And create some users to send and receive email:

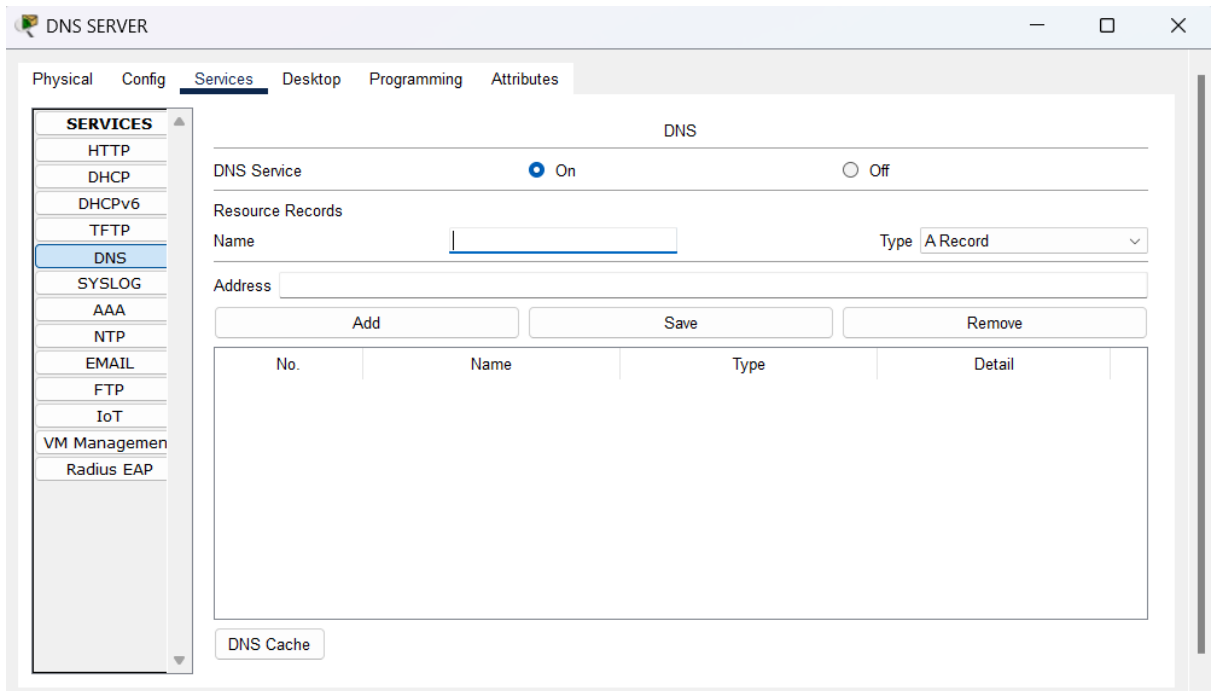


DNS SERVER Configuration:

1. Make Sure Ip and default gateway setup successfully



2. Now Go To Services and Select **DNS** and Turn On the **DNS** Service:



3. Now We add domain name we use our server :
First:

- **Name:** gmail.com
- **Address:** 192.168.1.2
- **Record Type:** A

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name Type A Record

Address

Second:

- **Name:** tanjidail.com
- **Address:** 192.168.2.1
- **Record Type:** CNAME

DNS

DNS Service ☒ On ☐ Off

Resource Records

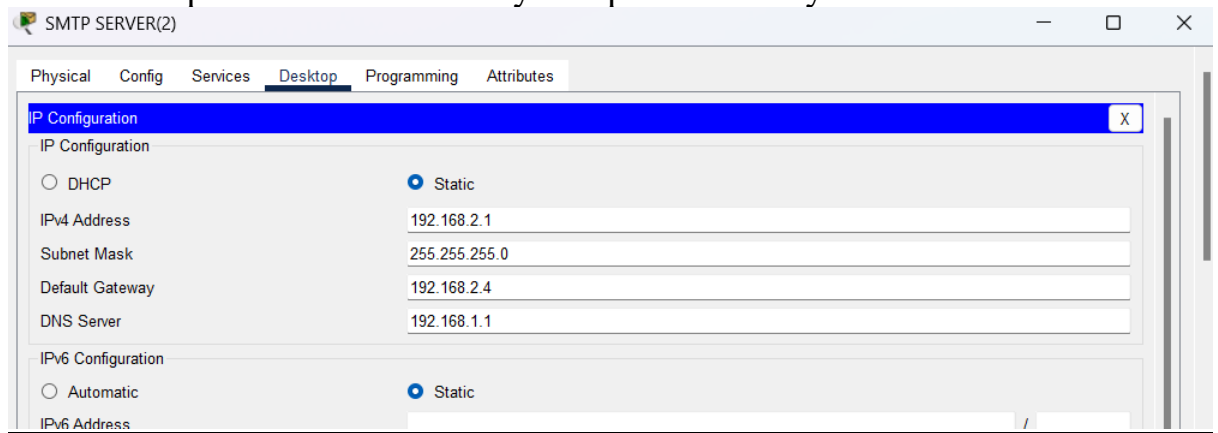
Name Type A Record

Address

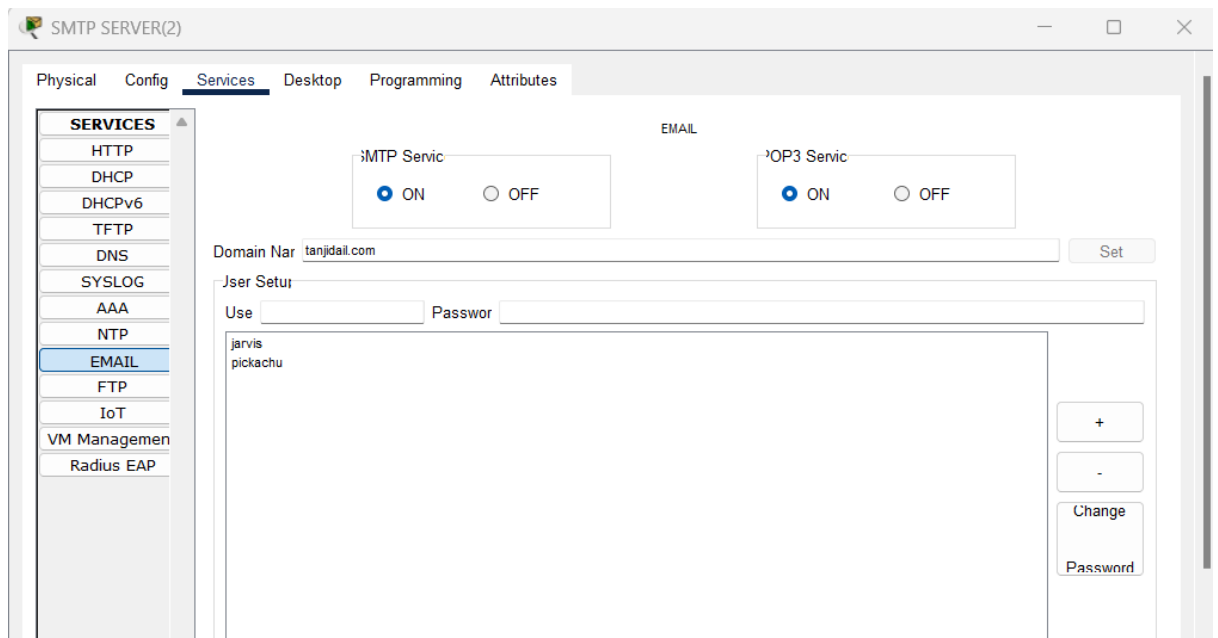
No.	Name	Type	Detail
0	gmail.com	A Record	192.168.1.2

SMTP SERVER(2) Configurations:

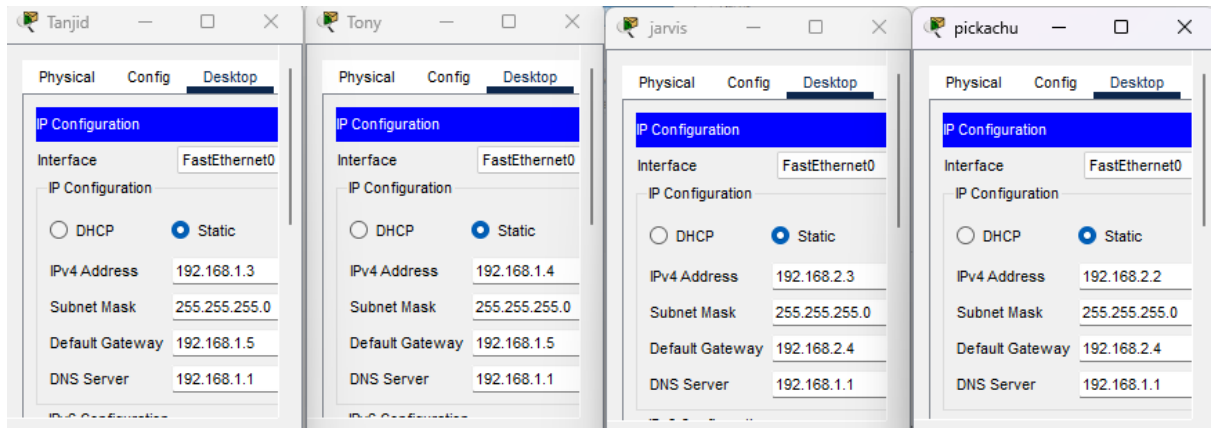
1. Make sure Ip and Default Gateway Setup Successfully



2. Now Go To Service and Select **EMAIL** and follow the **SMTP** SERVER setup Step 2,3 and create a new domain name and some users.



Step 7. Now We Setup Every End Device We Assign Unique Ip, Subnet Mask, Default Gateway, Dns.



Step 8: Now we move to setup email configuration in every end device:

1. First Go to Desktop and click email and select configure email:

Configure Mail [X]

User Information

Your Name:

Email Address:

Server Information

Incoming Mail Server:

Outgoing Mail Server:

Logon Information

User Name:

Password:

Save Remove Clear Reset

☐ Top

2. Now Fill up all information make sure when assign email address use actual domain name which we register above in dns server and set in smtp server:

The screenshot shows a window titled "Tanjid" with a tabbed interface. The "Desktop" tab is selected, displaying a "Configure Mail" dialog box. The dialog has a blue title bar with a close button (X). It contains three sections: "User Information", "Server Information", and "Logon Information".

Section	Field	Value
User Information	Your Name:	tanjid
	Email Address	tanjid@gmail.com
Server Information	Incoming Mail Server	192.168.1.2
	Outgoing Mail Server	192.168.1.2
Logon Information	User Name:	tanjid
	Password:	...

At the bottom of the dialog are four buttons: "Save", "Remove", "Clear", and "Reset".

Setup Both side end devices and assign the data as like we see above.

Tony Pc's:

The screenshot shows a window titled "Tony" with a tabbed interface. The "Desktop" tab is selected, displaying a "Configure Mail" dialog box. The dialog has a blue title bar with a close button (X). It contains three sections: "User Information", "Server Information", and "Logon Information".

Section	Field	Value
User Information	Your Name:	tony
	Email Address	tony@gmail.com
Server Information	Incoming Mail Server	192.168.1.2
	Outgoing Mail Server	192.168.1.2
Logon Information	User Name:	tony
	Password:	...

At the bottom of the dialog are four buttons: "Save", "Remove", "Clear", and "Reset".

Jarvis Pc's:

The screenshot shows a window titled "jarvis" with a menu bar containing "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is selected, and a "Configure Mail" dialog box is open. The dialog has a blue title bar with a close button (X). It contains three sections: "User Information", "Server Information", and "Logon Information".

User Information:

- Your Name: jarvis
- Email Address: jarvis@tanjidail.com

Server Information:

- Incoming Mail Server: 192.168.2.1
- Outgoing Mail Server: 192.168.2.1

Logon Information:

- User Name: jarvis
- Password: ...

At the bottom of the dialog are four buttons: "Save", "Remove", "Clear", and "Reset".

Pickachu PC's:

The screenshot shows a window titled "pickachu" with a menu bar containing "Physical", "Config", "Desktop", "Programming", and "Attributes". The "Desktop" tab is selected, and a "Configure Mail" dialog box is open. The dialog has a blue title bar with a close button (X). It contains three sections: "User Information", "Server Information", and "Logon Information".

User Information:

- Your Name: pickachu
- Email Address: pickachu@tanjidail.com

Server Information:

- Incoming Mail Server: 192.168.2.1
- Outgoing Mail Server: 192.168.2.1

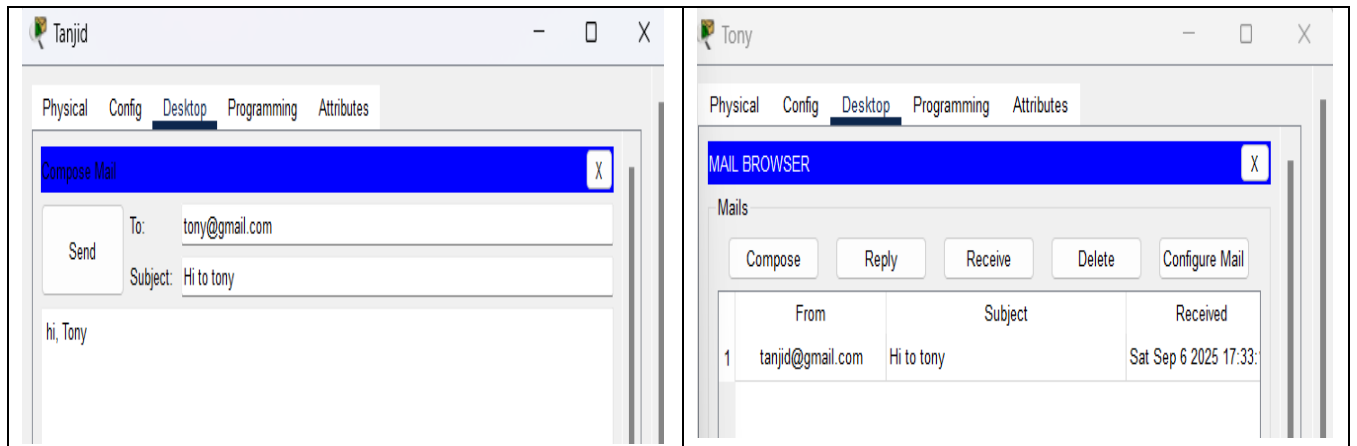
Logon Information:

- User Name: pickachu
- Password: ...

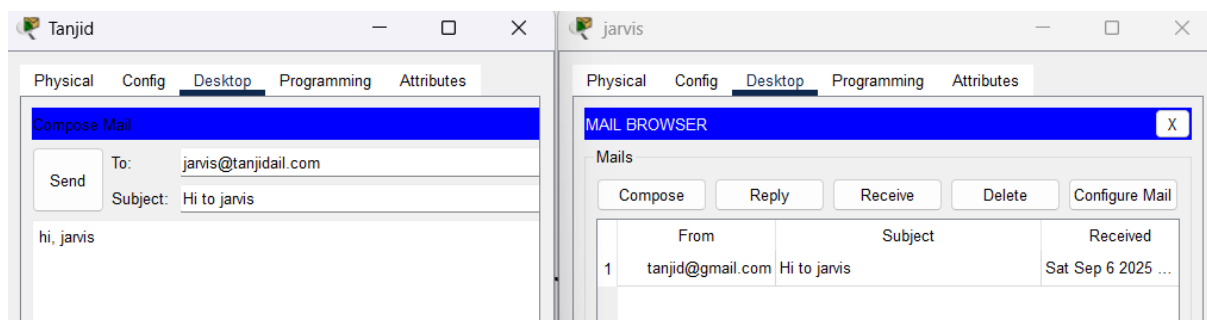
At the bottom of the dialog are four buttons: "Save", "Remove", "Clear", and "Reset".

Step 8: Now we test the both side with sending email each other end device:

Tanjid to tony pc sending email:



Now we Test Tanjid to Jarvis end device sending email:



We see that we can successfully send and receive mail from both side.