Register No:	99220040772		
Name:	V Vishwaradhya		
Class/Section:	9312/S24		
Ex.No:	14		
Date of	dd.mm.yyyy		
Submission			
Name of the	E-Mail Configuration		
Experiment			
Google Drive	https://drive.google.com/drive/folders/1dAiWE3n-p-gJfiQjZ2V7acDTHwByfx?usp=sharing		
link of the			
packet tracer			
file			
(give view			
permission):			

Objective(s):

To design and implement Email server configuration using packet tracer

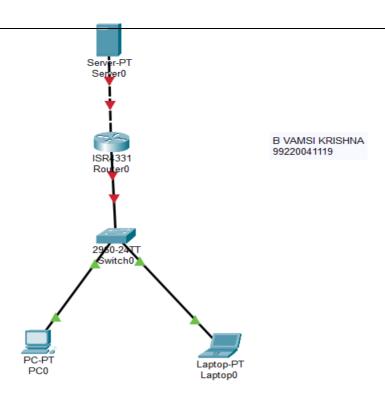
Introduction:

An email server, such as Gmail stores and sends email messages to email clients on request. We often send and receive emails on our mobile devices or computers. Have you ever imagined how this happens? Well, whenever you compose and send an email to another person, the message you send first goes to a mail server. It's the mail server which then sends the email when it is requested from the email client (e.g Gmail App) of the recipient's device.

So now, lets configure a mail server in Packet Tracer. And have in mind that although our main focus is configuring an email server, we'll still need services of a DNS server at one point.

1. Device Requirements:

- 1.PC
- 2.SERVER
- 3.SWITCH
- 4.ROUTER
- 2. Network Diagram for your experiment (draw the diagram either hand drawing/ms paint or any other drawing tools)
- 3. Network Diagram (Packet tracer diagram before configuration):



4. Configuration details:

Device Name	Interface	IP Address	Subnet mask	Default
	Name			Gateway
PC 0	Fa0/2	192.168.56.2	255.255.255.0	192.168.57.1
LAPTOP	FA0/1	192.168.56.3	255.255.255.0	192.168.57.1
SWITCH	FA0/3			
SERVER	Gig0/1	192.168.57.2	255.255.255.0	192.168.57.1
Router	Gig0/0			

1. Describe step by step configuration steps properly (you may copy the commands used in the configuration tab and paste it.)

Step 1: Configure the Domain Name

Any email server will need a domain name. For instance, Google runs its email services on the domain Gmail.com. To set a domain for the Email server, Navigate to **Services>Email**, and you will see the option to set the domain name of the email server. In this demonstration, I will set the domain to be netizzan.com

Step 2: Add User to the Server

For any email client to be able to send or receive requests from the server, it must be added as a user of the services. This is equivalent to the process of creating a Google account. To add a user; you just need a username and password.

In this case that the domain name is netizzan.com. Any user added will be available at the email manoi@google.com

Step 3: Configure the router

Router>enable

Router#configure terminal

Router(config)#hostname R1

R1(config)#interface g0/0/1

R1(config-if)#ip address 192.168.2.1 255.255.255.0

R1(config-if)#no shut

R1(config-if)#interface g0/0/0

R1(config-if)#ip address 192.168.1.1 255.255.255.0

R1(config-if)#no shut

Step 4: Configure the Email Client

Now that we have added a user to the email server, we need to set up the email client. This step is similar to the process of signing into your Google account on your Gmail app.

- \$ Navigate to Desktop>Email on one of the PCs.
- \$ Then select "configure mail";
- \$ Then enter the required information, which includes the username, email address, server information, and password.

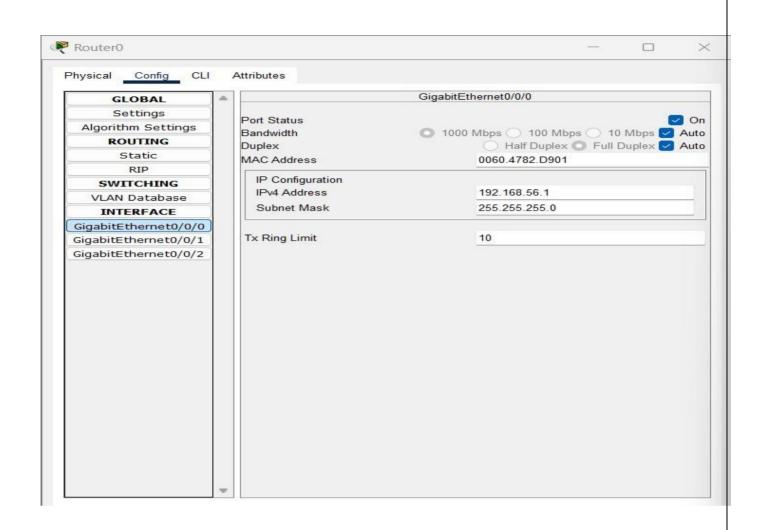
\$Step 5: Test Configuration

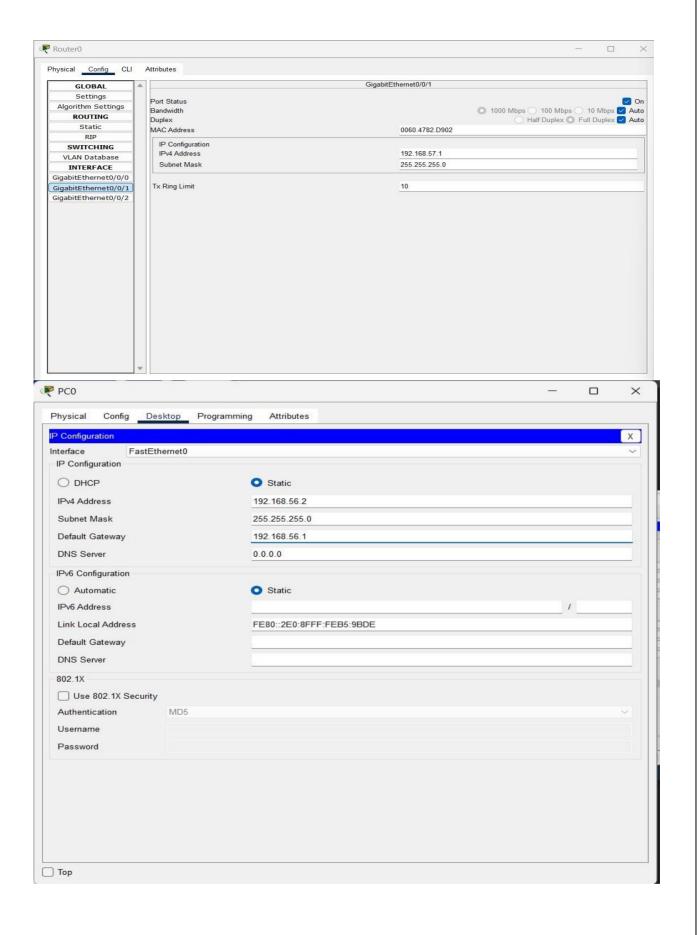
Now that we have configured both PCO and PC1 as email clients, we can test the configuration by sending an email from PCO to PC1.

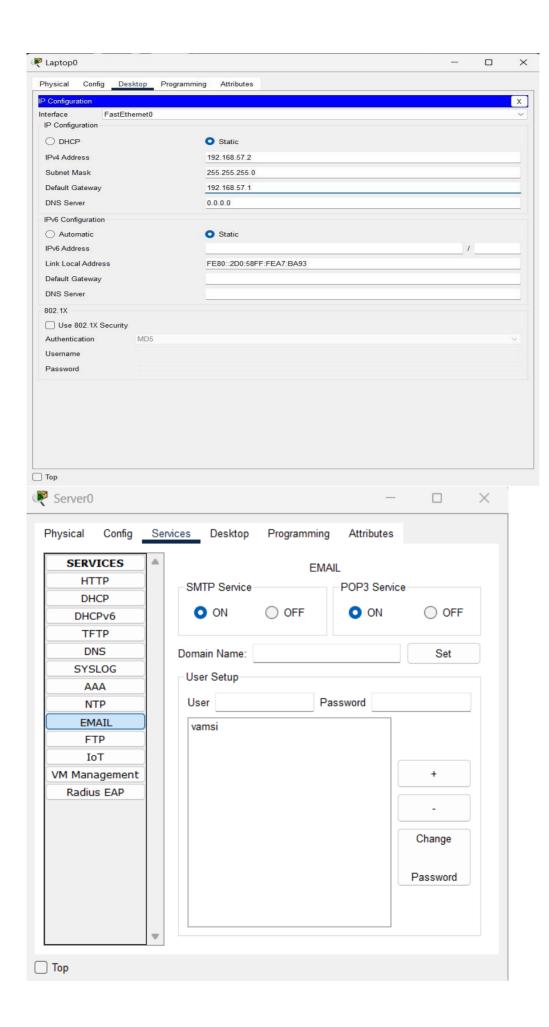
\$Then compose an email by entering the recipient's address, subject, and body, and then click on send.

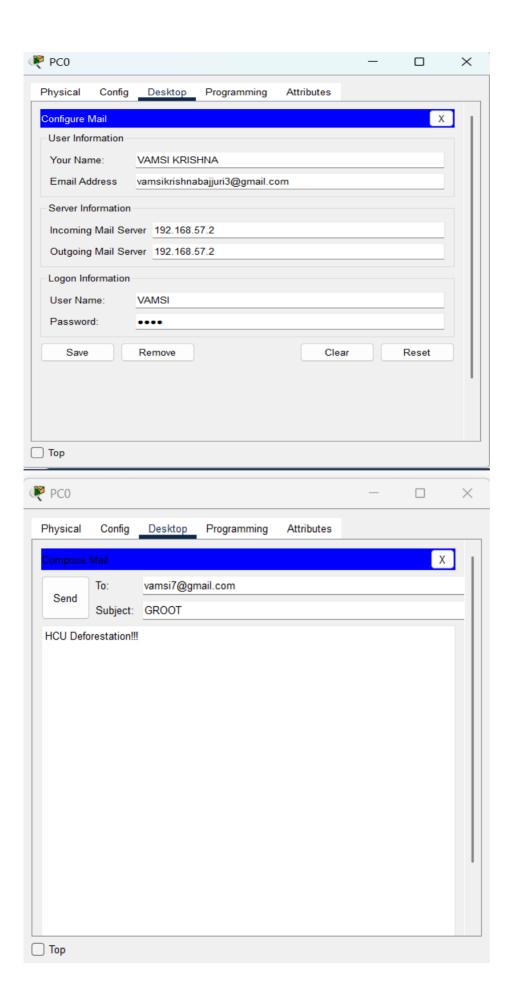
\$Then go to the second email client (PC1) and confirm that the email has been received.

6. Output Diagram (Minimum 3 screenshot):









Rubrics for Experiment Assessment:

Rubrics	Good	Normal	Poor	Marks
Creation of Topology (4)	Created the topology, Identify the proper devices and making the connections (4)	Created the topology, Identify the proper devices, making the connections But missing some features (3)	Created wrong topology, Failed to Identify the proper devices and making connections (1)	
Verify the connectivity (4)	Verified the connectivity in all the levels (4)	Verified the connectivity at some levels (only some nodes) (2)	Verified the connectivity is not done. (1)	
Timely Completion (2)	Completed the lab before the allotted time (2)	Completed the lab after the deadline (1)	Did not submitted before grading (0)	
			Total	

CONCLUSION (provide conclusion about this experiment): In this experiment, we configured an Email Server to enable the sending and receiving of emails within a network. By setting up protocols like SMTP (Simple Mail Transfer Protocol) for outgoing mail and IMAP/POP3 for incoming mail, we ensured smooth email communication.