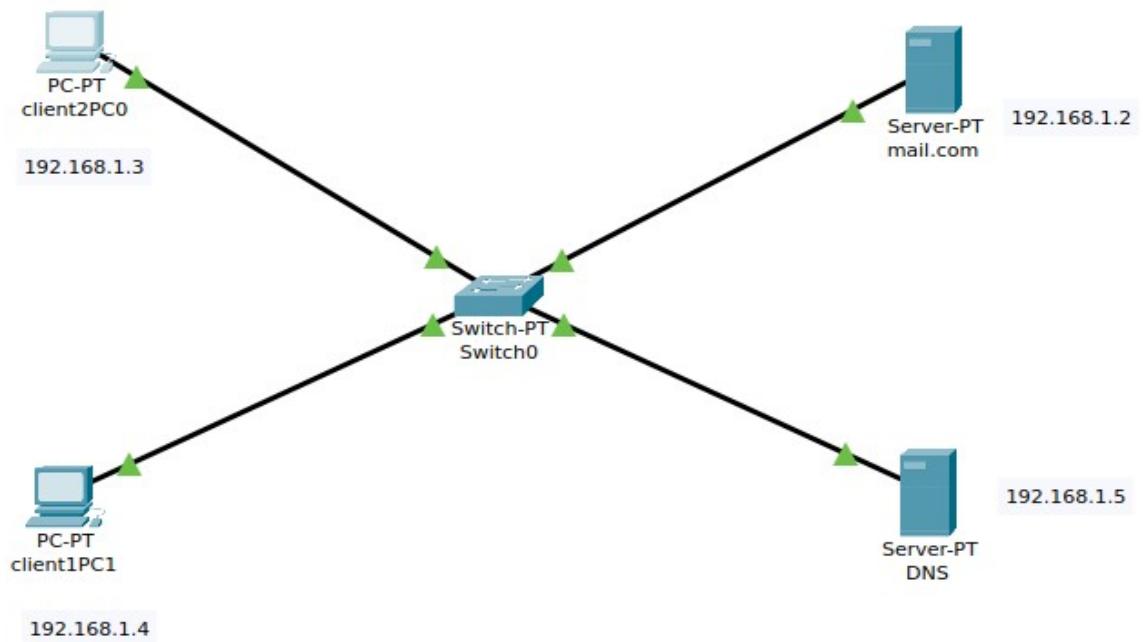


Network Topology

TASK 1



PC 0 :

The screenshot shows a window titled 'client2PC0' with a tabbed interface. The 'Desktop' tab is selected. At the top, there is a blue header bar with the text 'Configure Mail' and a close button 'X'. Below this, the window is divided into three sections: 'User Information', 'Server Information', and 'Logon Information'. Each section contains input fields for various configuration parameters. At the bottom, there are four buttons: 'Save', 'Remove', 'Clear', and 'Reset'.

Section	Field	Value
User Information	Your Name:	client2
	Email Address	client2@mail.com
Server Information	Incoming Mail Server	mail.com
	Outgoing Mail Server	mail.com
Logon Information	User Name:	client2
	Password:

PC 1 :

The screenshot shows a window titled 'client1PC1' with a tabbed interface. The 'Desktop' tab is selected. At the top, there is a blue header bar with the text 'Configure Mail' and a close button 'X'. Below this, the window is divided into three sections: 'User Information', 'Server Information', and 'Logon Information'. Each section contains input fields for various configuration parameters. At the bottom, there are four buttons: 'Save', 'Remove', 'Clear', and 'Reset'.

Section	Field	Value
User Information	Your Name:	client1
	Email Address	client1@mail.com
Server Information	Incoming Mail Server	mail.com
	Outgoing Mail Server	mail.com
Logon Information	User Name:	client1
	Password:

Mail Server :

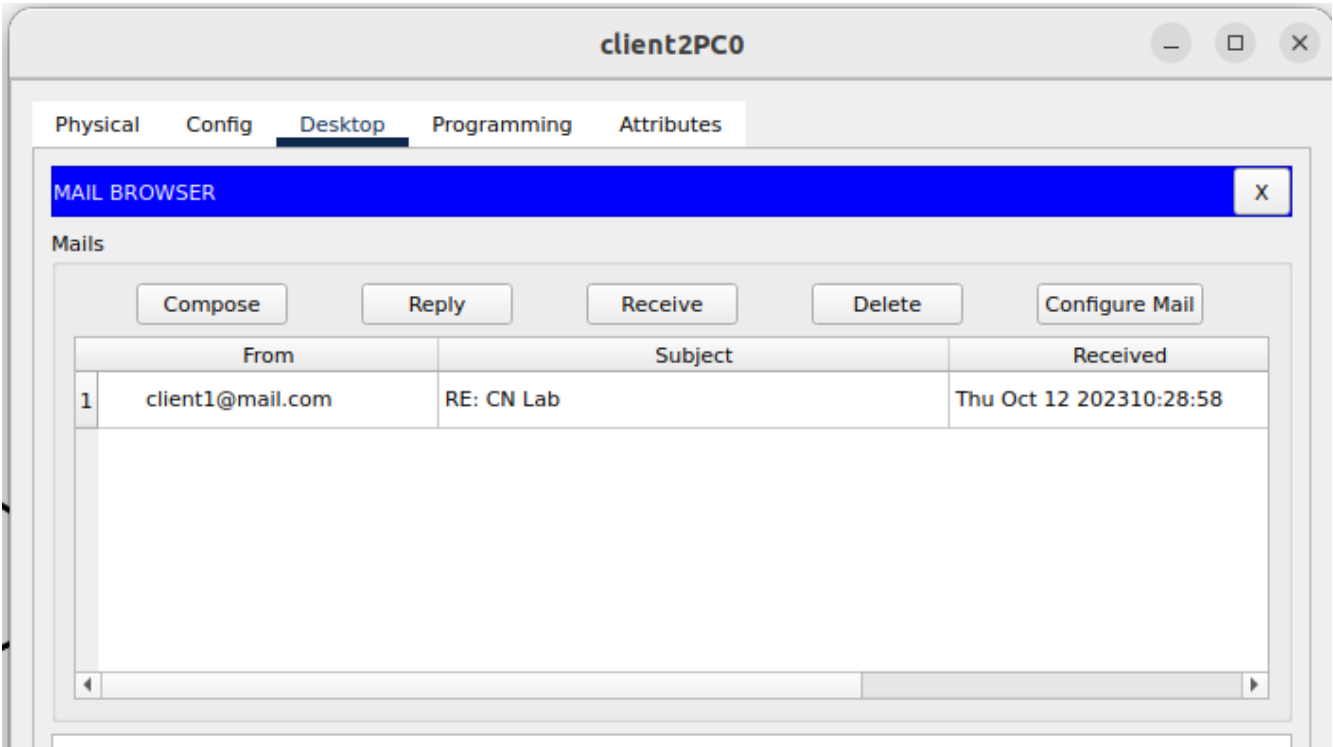
The screenshot shows the 'mail.com' configuration window with the 'Services' tab selected. On the left, a 'SERVICES' list includes HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL (highlighted), FTP, IoT, VM Management, and Radius EAP. The main area is titled 'EMAIL' and contains two sections: 'SMTP Service' and 'POP3 Service', each with 'ON' (selected) and 'OFF' radio buttons. Below these is a 'Domain Name' field set to 'mail.com' with a 'Set' button. A 'User Setup' section has 'User' and 'Password' input fields, with a list box containing 'client1' and 'client2'. A '+' button is at the bottom right.

DNS Server :

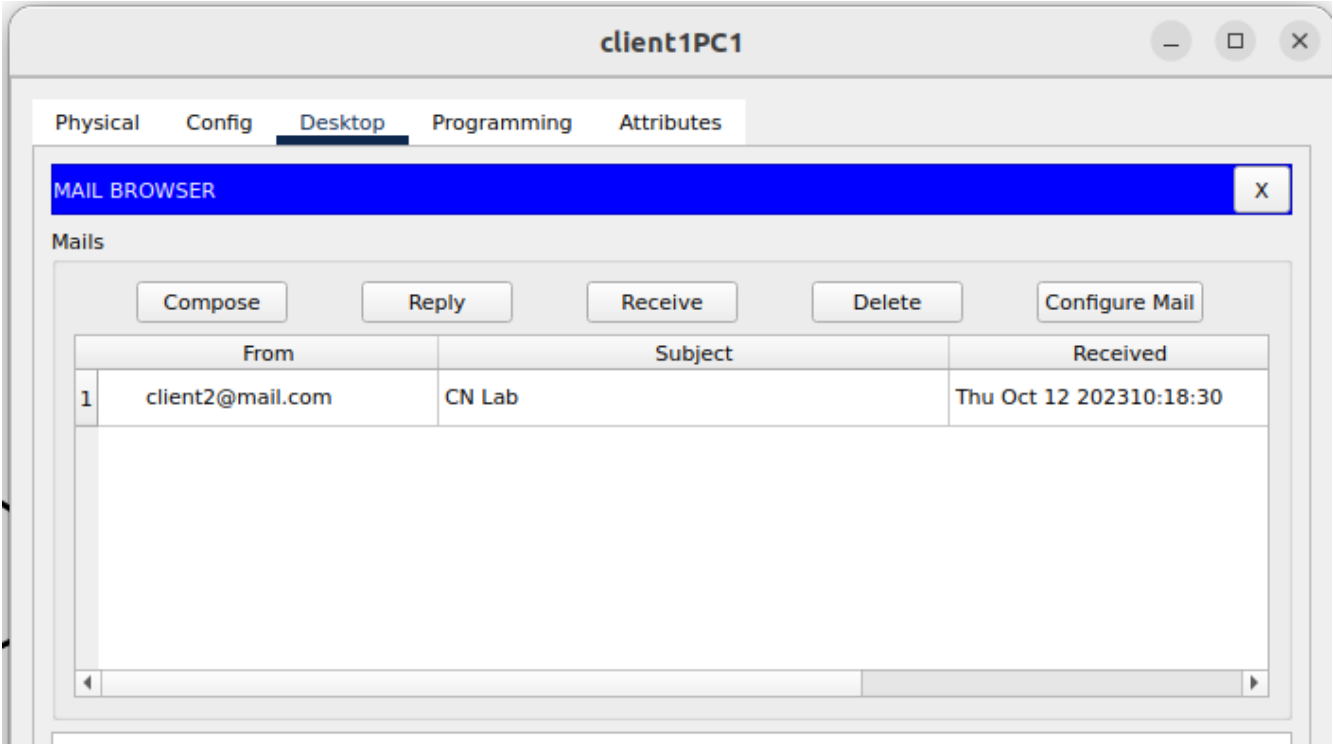
The screenshot shows the 'DNS' configuration window with the 'Services' tab selected. On the left, a 'SERVICES' list includes HTTP, DHCP, DHCPv6, TFTP, DNS (highlighted), SYSLOG, AAA, NTP, EMAIL, FTP, IoT, VM Management, and Radius EAP. The main area is titled 'DNS' and contains a 'DNS Service' section with 'On' (selected) and 'Off' radio buttons. Below is a 'Resource Records' section with a 'Name' input field, a 'Type' dropdown menu set to 'A Record', and an 'Address' input field. At the bottom are 'Add', 'Save', and 'Remove' buttons. A table lists the existing record:

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

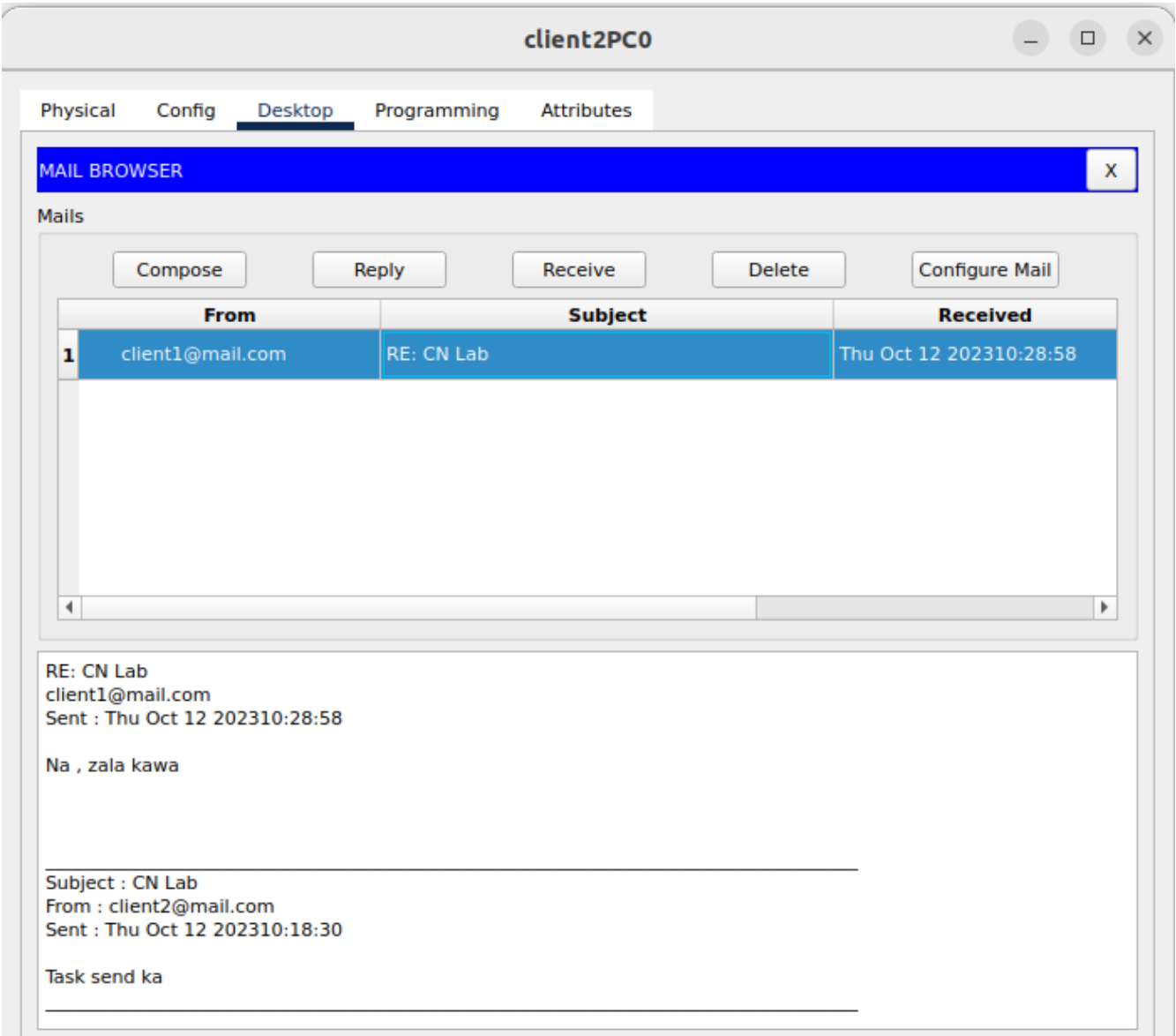
Mail Browser :



Recived Mail :

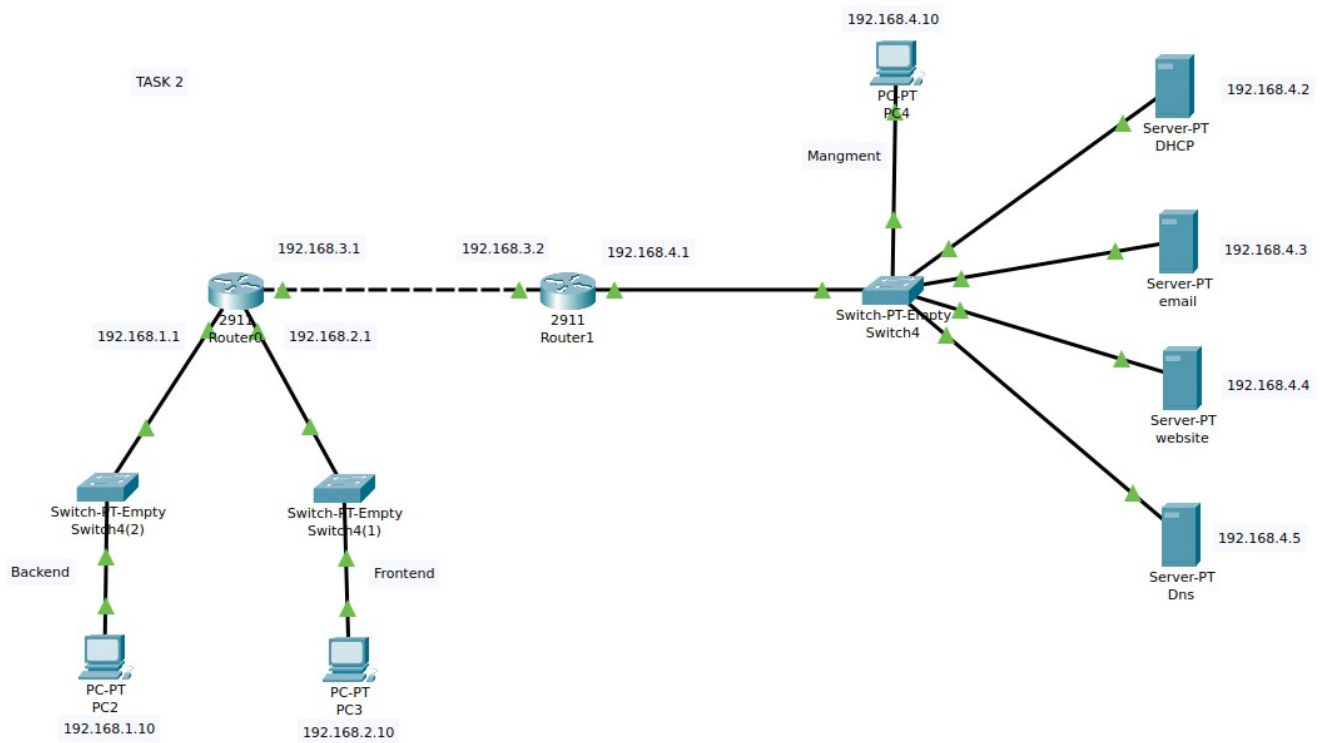


Message :



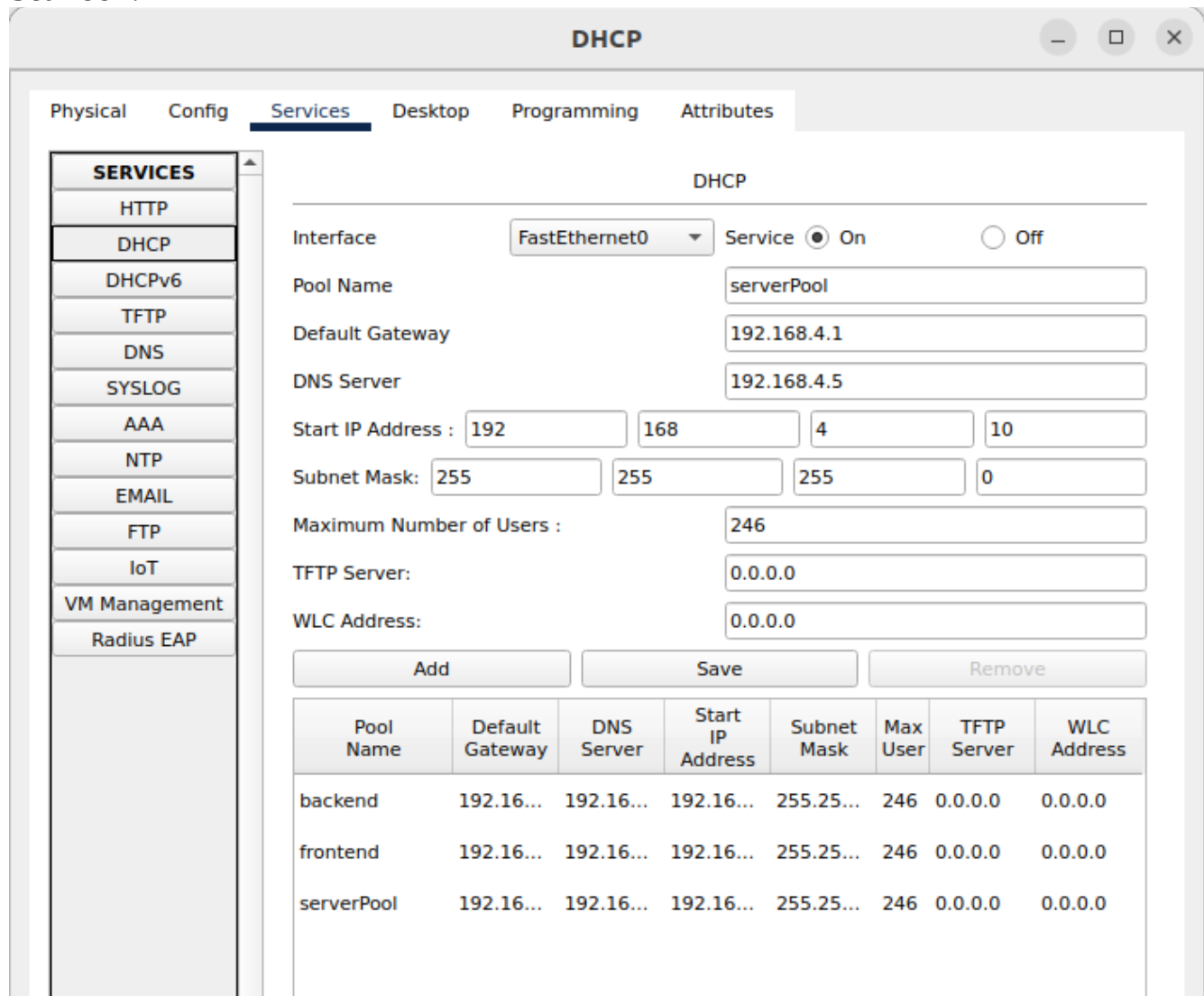
TASK 2 :

1. Network Topology :



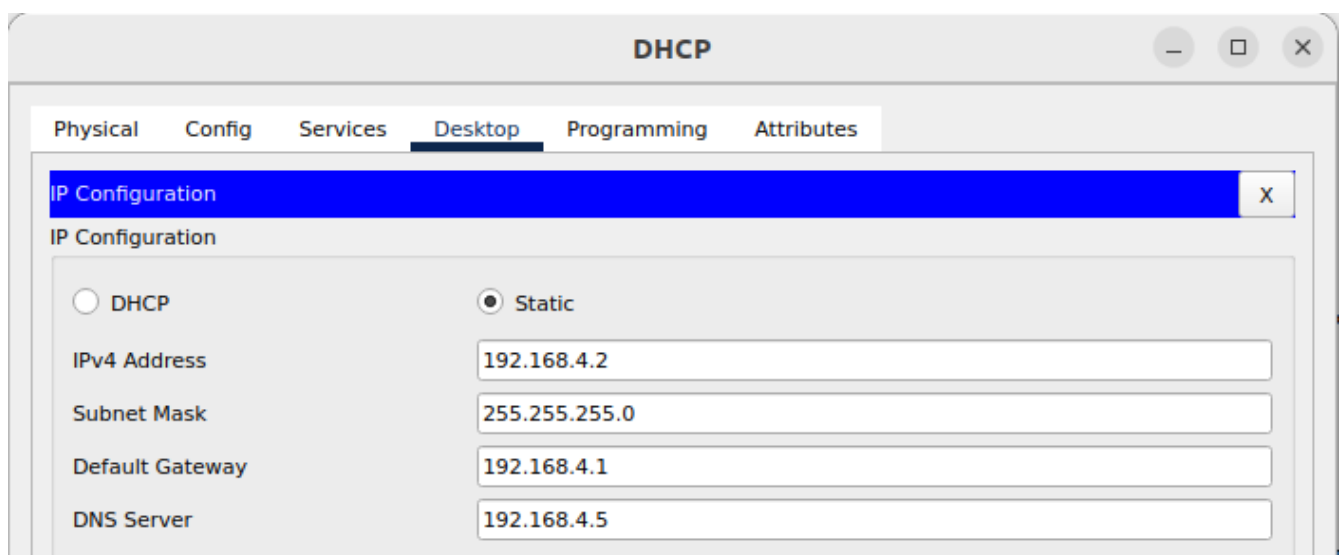
- **DHCP Server :**

Set Pool :



The DHCP configuration window shows the 'Services' tab. On the left, a 'SERVICES' sidebar lists various services, with 'DHCP' selected. The main area is titled 'DHCP' and contains configuration fields for the 'FastEthernet0' interface. The 'Service' is set to 'On'. The 'Pool Name' is 'serverPool'. The 'Default Gateway' is '192.168.4.1' and the 'DNS Server' is '192.168.4.5'. The 'Start IP Address' is configured as 192.168.4.10 and the 'Subnet Mask' is 255.255.255.0. The 'Maximum Number of Users' is 246. The 'TFTP Server' and 'WLC Address' are both set to 0.0.0.0. At the bottom, there are 'Add', 'Save', and 'Remove' buttons, followed by a table listing existing DHCP pools.

Pool Name	Default Gateway	DNS Server	Start IP Address	Subnet Mask	Max User	TFTP Server	WLC Address
backend	192.16...	192.16...	192.16...	255.25...	246	0.0.0.0	0.0.0.0
frontend	192.16...	192.16...	192.16...	255.25...	246	0.0.0.0	0.0.0.0
serverPool	192.16...	192.16...	192.16...	255.25...	246	0.0.0.0	0.0.0.0



The DHCP configuration window shows the 'Desktop' tab. A blue bar at the top indicates 'IP Configuration'. Below this, the 'IP Configuration' section shows two radio buttons: 'DHCP' (unselected) and 'Static' (selected). The 'IPv4 Address' is '192.168.4.2', the 'Subnet Mask' is '255.255.255.0', the 'Default Gateway' is '192.168.4.1', and the 'DNS Server' is '192.168.4.5'.

- DNS Server :

Dns

Physical Config **Services** Desktop Programming Attributes

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS**
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP
- IoT
- VM Management
- Radius EAP

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name Type **A Record**

Address

Add **Save** **Remove**

No.	Name	Type	Detail
0	mt.com	A Record	192.168.4.3
1	www.mastertech.com	A Record	192.168.4.4

Dns

Physical Config Services **Desktop** Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

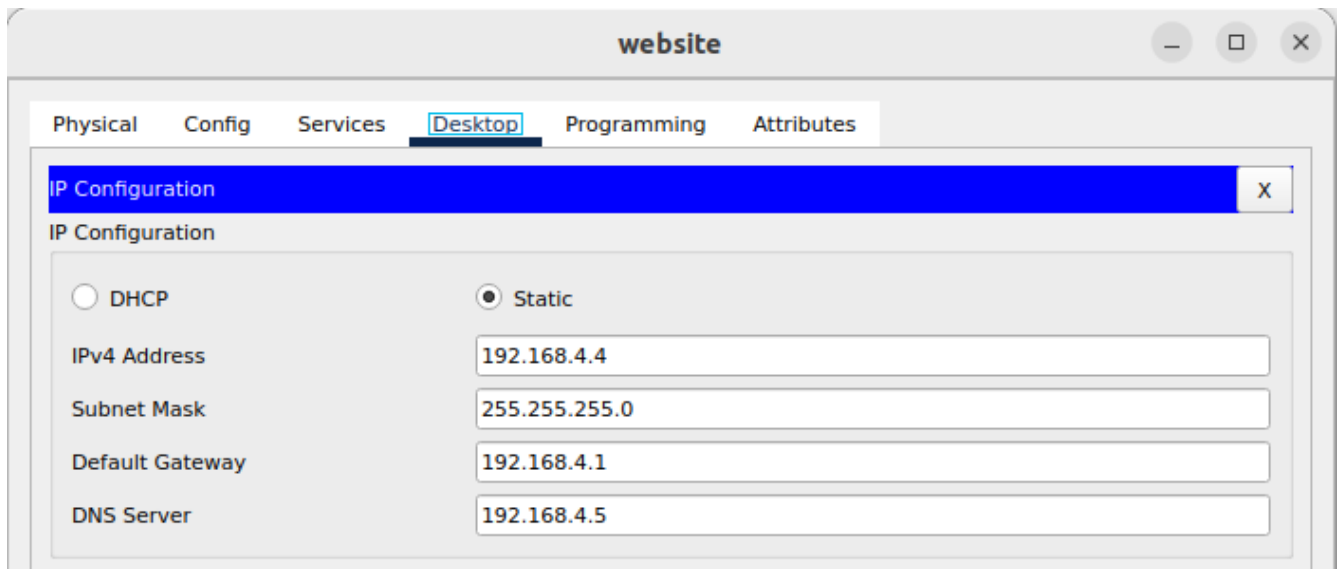
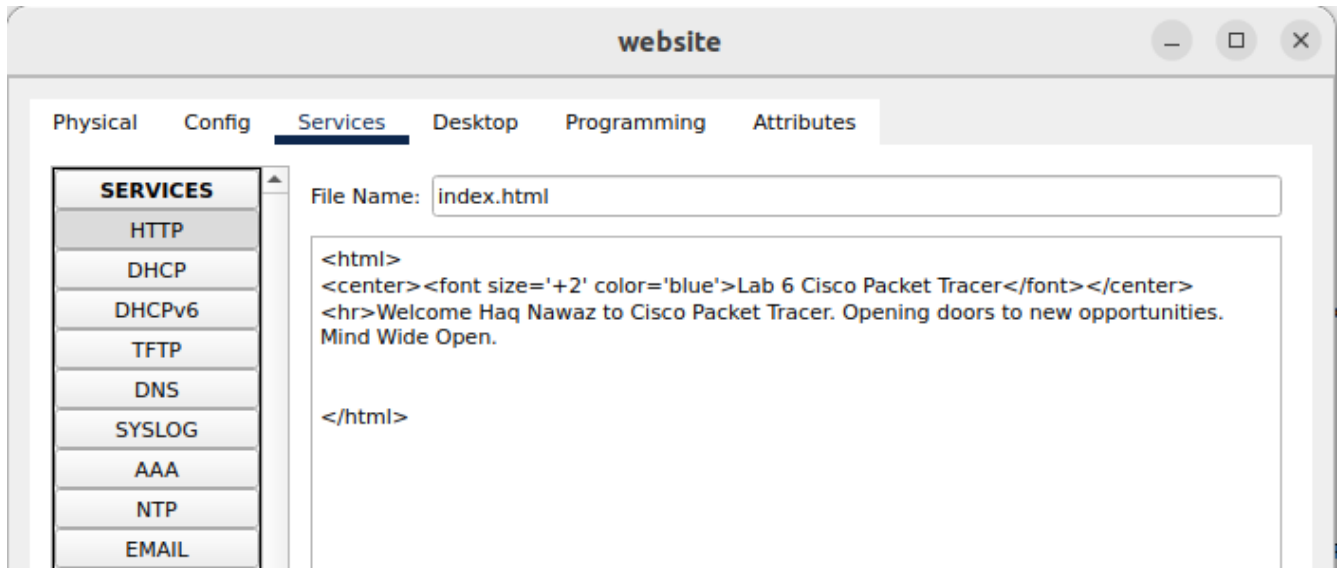
IPv4 Address

Subnet Mask

Default Gateway

DNS Server

- website Server :



- Email Server :

The screenshot shows the 'email' configuration window with the 'Services' tab selected. On the left, a 'SERVICES' sidebar lists various services: HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL (highlighted), FTP, IoT, and VM Management. The main area is titled 'EMAIL' and contains two sections: 'SMTP Service' and 'POP3 Service'. Both sections have radio buttons for 'ON' (selected) and 'OFF'. Below these, the 'Domain Name' is set to 'mt.com' with a 'Set' button. The 'User Setup' section has input fields for 'User' and 'Password', and a list box containing 'user1', 'user2', and 'user3'.

The screenshot shows the 'email' configuration window with the 'Desktop' tab selected. A blue header bar at the top of the main area is labeled 'IP Configuration' with a close button 'X'. Below this, the 'IP Configuration' section has two radio buttons: 'DHCP' (unselected) and 'Static' (selected). Four input fields are provided for static IP configuration: 'IPv4 Address' (192.168.4.3), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (192.168.4.1), and 'DNS Server' (192.168.4.5).

- Router's :

Router 0 : helper ip

```
Router(config)#interface GigaBitEthernet0/1
Router(config-if)#ip helper-address 192.168.4.2
Router(config-if)#ex
Router(config)#interface GigaBitEthernet0/2
Router(config-if)#ip helper-address 192.168.4.2
Router(config-if)#ex
Router(config)#
```

Static : Router 0

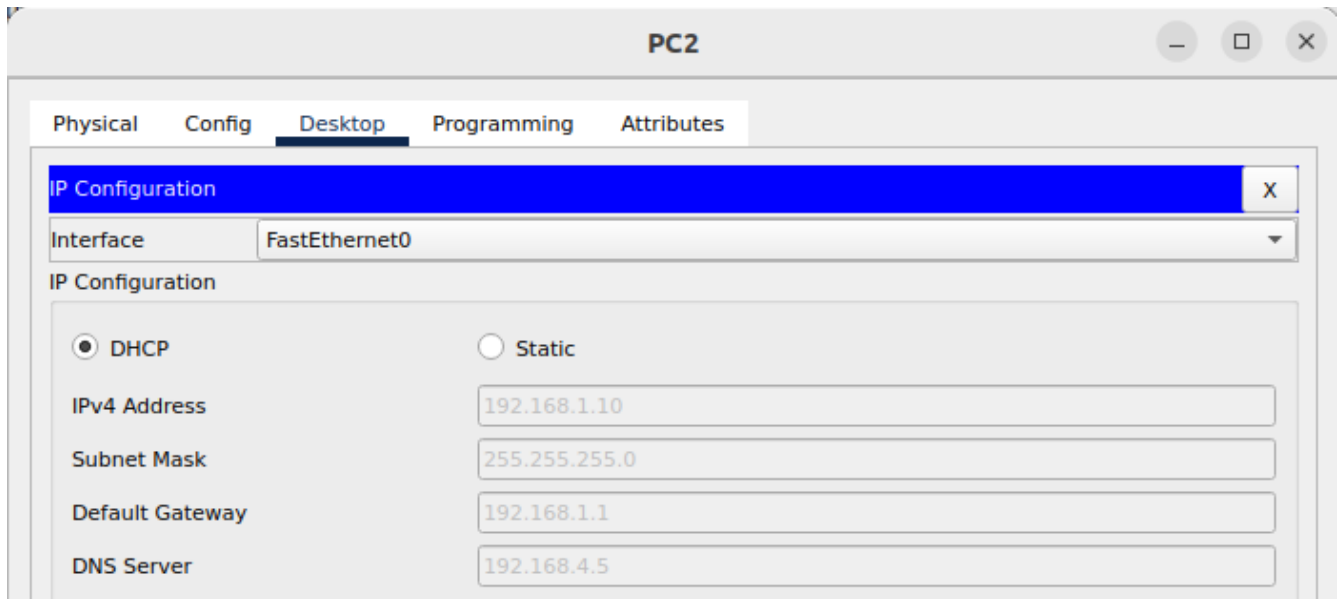
The screenshot shows the 'Router0' configuration window with the 'Config' tab selected. The left sidebar contains a tree view with categories: GLOBAL, ROUTING, SWITCHING, and INTERFACE. Under ROUTING, 'Static' is selected. The main area is titled 'Static Routes' and contains input fields for 'Network', 'Mask', and 'Next Hop', followed by an 'Add' button. Below these fields is a table titled 'Network Address' with one entry: '192.168.4.0/24 via 192.168.3.2'.

Static : Router 1

The screenshot shows the 'Router1' configuration window with the 'Config' tab selected. The left sidebar is identical to Router0, with 'Static' selected under the ROUTING category. The main area is titled 'Static Routes' and contains input fields for 'Network', 'Mask', and 'Next Hop', followed by an 'Add' button. Below these fields is a table titled 'Network Address' with two entries: '192.168.1.0/24 via 192.168.3.1' and '192.168.2.0/24 via 192.168.3.1'.

- PC'S :

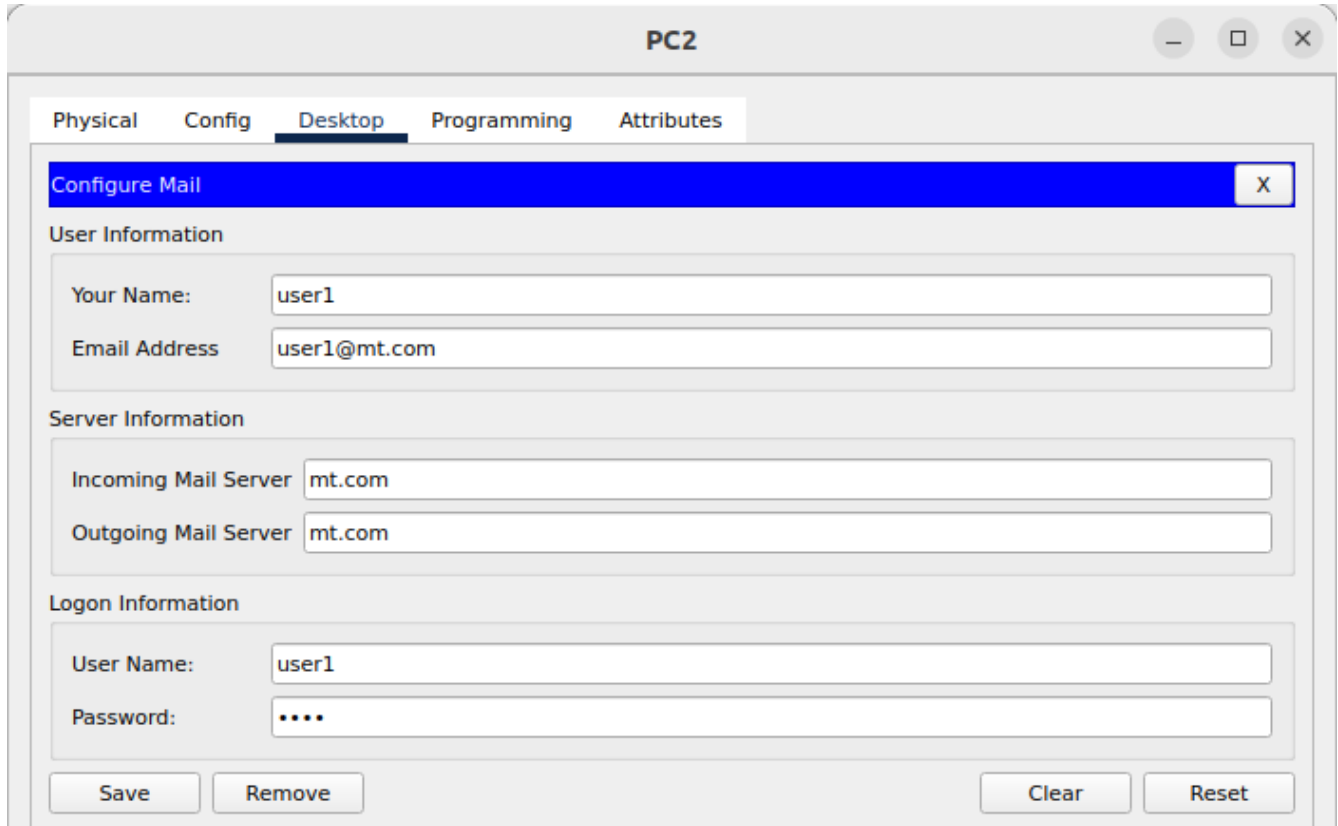
Pc 2 :



The screenshot shows the 'PC2' configuration window with the 'Desktop' tab selected. The 'IP Configuration' window is open, showing the 'FastEthernet0' interface. The 'DHCP' option is selected, and the following values are entered:

Field	Value
IPv4 Address	192.168.1.10
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	192.168.4.5

User1 Email id :

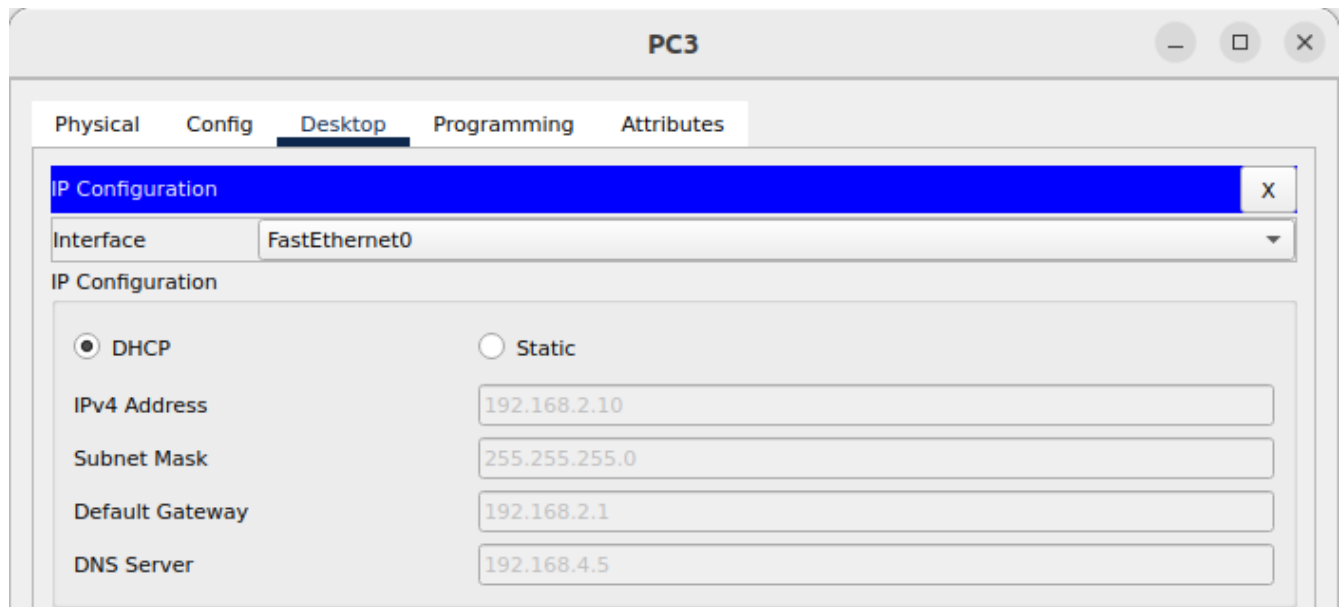


The screenshot shows the 'PC2' configuration window with the 'Desktop' tab selected. The 'Configure Mail' window is open, showing the configuration for 'User1'. The configuration is as follows:

Section	Field	Value
User Information	Your Name:	user1
	Email Address	user1@mt.com
Server Information	Incoming Mail Server	mt.com
	Outgoing Mail Server	mt.com
Logon Information	User Name:	user1
	Password:

Buttons at the bottom: Save, Remove, Clear, Reset.

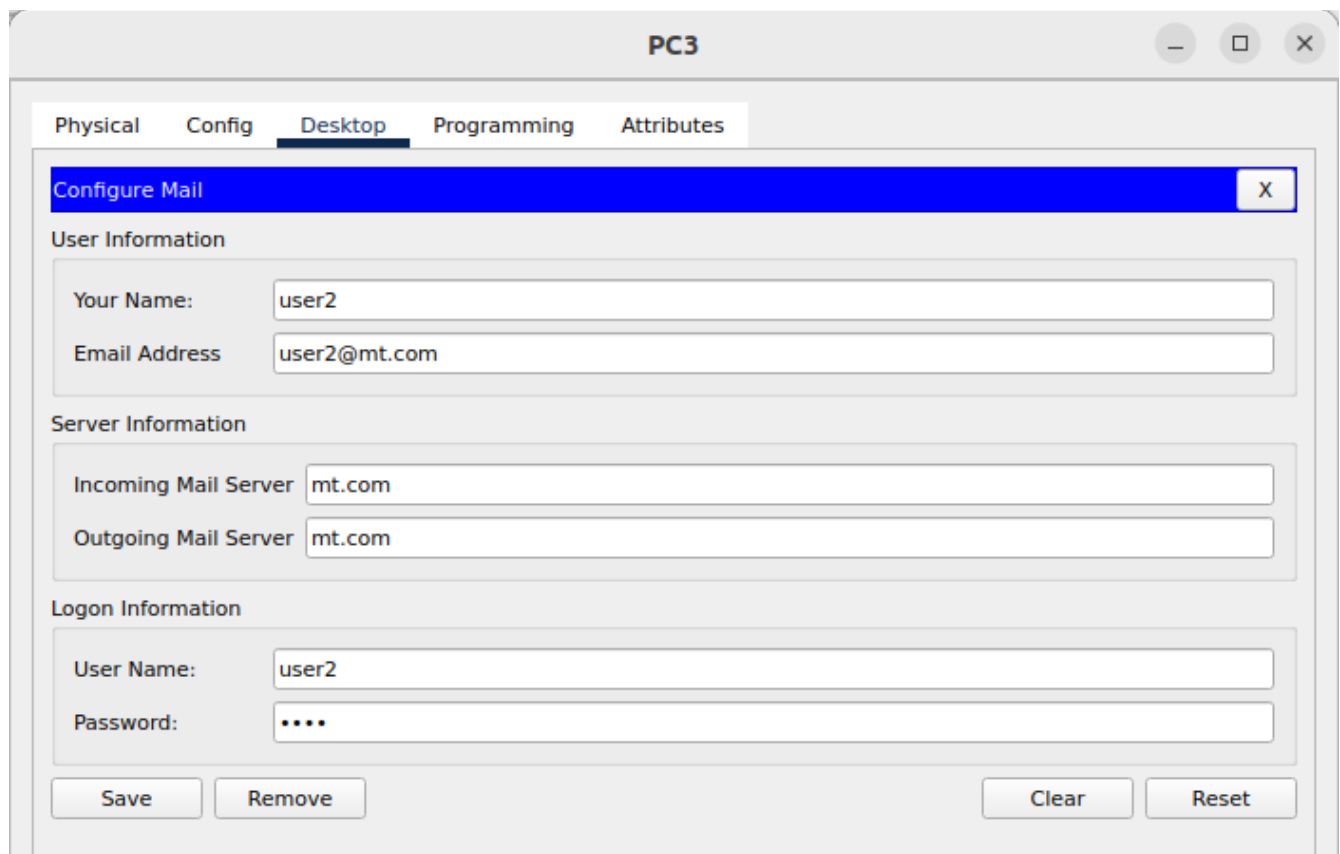
Pc 3 :



The image shows a window titled "PC3" with a tabbed interface. The "Desktop" tab is selected. Below the tabs, there is a blue header bar labeled "IP Configuration" with a close button (X). Underneath, a dropdown menu shows "Interface" set to "FastEthernet0". The main area is titled "IP Configuration" and contains two radio buttons: "DHCP" (selected) and "Static". Below these are four text input fields: "IPv4 Address" (192.168.2.10), "Subnet Mask" (255.255.255.0), "Default Gateway" (192.168.2.1), and "DNS Server" (192.168.4.5).

Interface	FastEthernet0
IP Configuration	
<input checked="" type="radio"/> DHCP	<input type="radio"/> Static
IPv4 Address	192.168.2.10
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.1
DNS Server	192.168.4.5

User2 Email id :



The image shows a window titled "PC3" with a tabbed interface. The "Desktop" tab is selected. Below the tabs, there is a blue header bar labeled "Configure Mail" with a close button (X). The main area is divided into three sections: "User Information", "Server Information", and "Logon Information". Each section contains text input fields for user details, mail server addresses, and login credentials. At the bottom, there are four buttons: "Save", "Remove", "Clear", and "Reset".

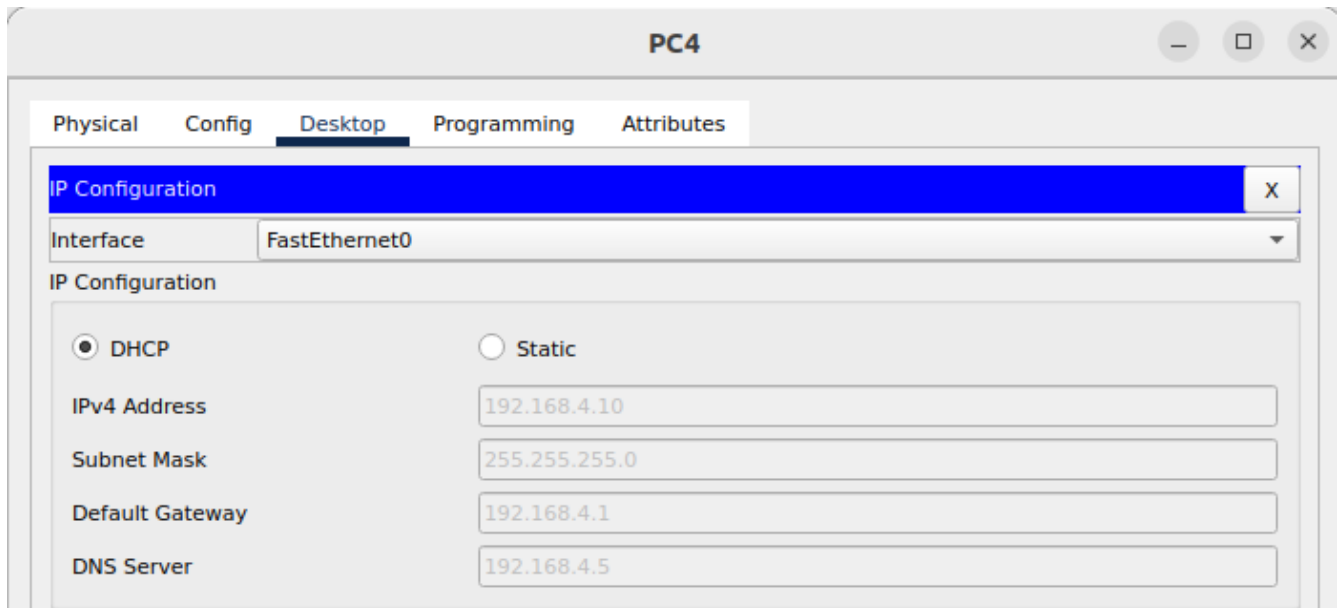
User Information	
Your Name:	user2
Email Address	user2@mt.com

Server Information	
Incoming Mail Server	mt.com
Outgoing Mail Server	mt.com

Logon Information	
User Name:	user2
Password:

Buttons: Save, Remove, Clear, Reset

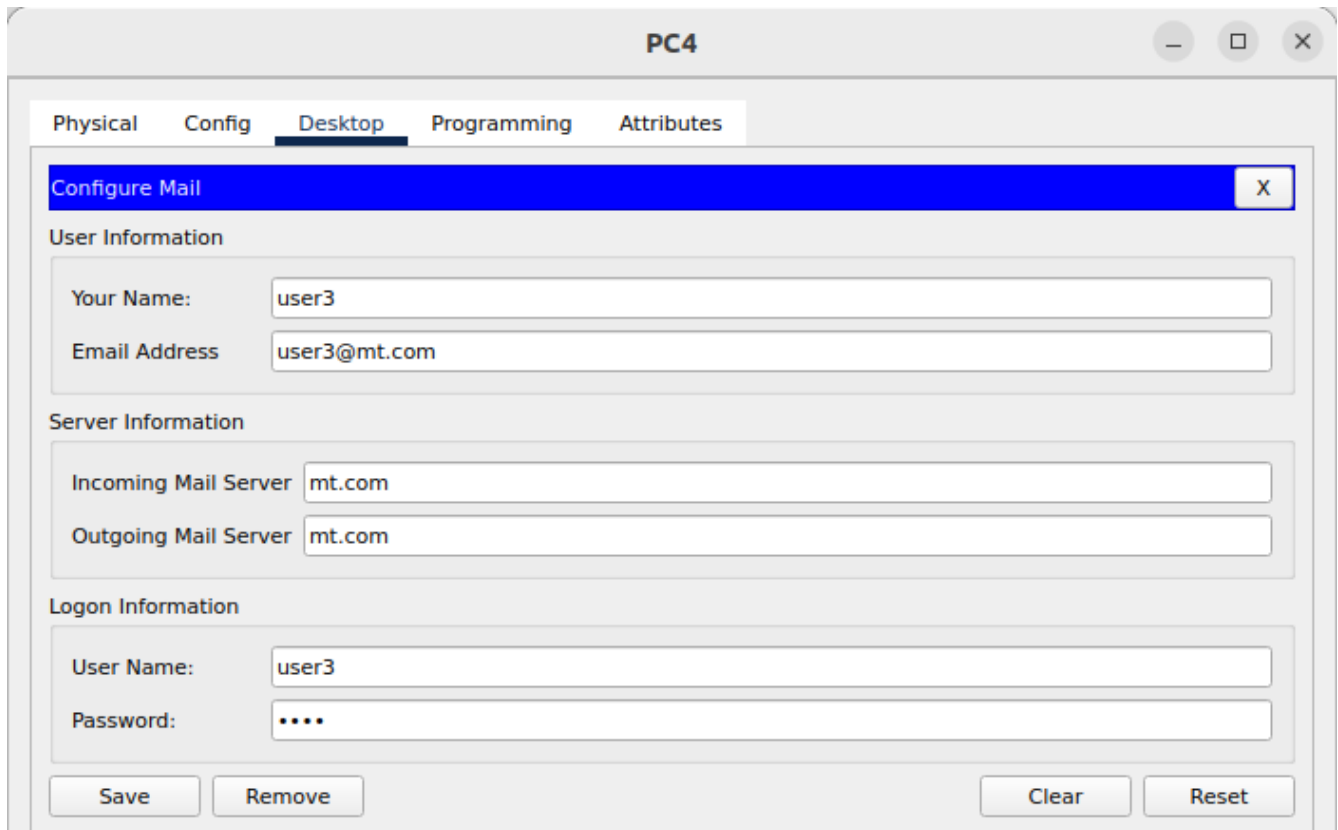
Pc 4 :



The image shows a window titled "PC4" with a tabbed interface. The "Desktop" tab is selected. Inside the Desktop tab, there is a sub-window titled "IP Configuration" with a close button (X). Below the title bar, there is a dropdown menu for "Interface" set to "FastEthernet0". Underneath, the "IP Configuration" section has two radio buttons: "DHCP" (selected) and "Static". Below these are four text input fields: "IPv4 Address" (192.168.4.10), "Subnet Mask" (255.255.255.0), "Default Gateway" (192.168.4.1), and "DNS Server" (192.168.4.5).

Interface	FastEthernet0
IP Configuration	
<input checked="" type="radio"/> DHCP	<input type="radio"/> Static
IPv4 Address	192.168.4.10
Subnet Mask	255.255.255.0
Default Gateway	192.168.4.1
DNS Server	192.168.4.5

User3 Email id :



The image shows a window titled "PC4" with a tabbed interface. The "Desktop" tab is selected. Inside the Desktop tab, there is a sub-window titled "Configure Mail" with a close button (X). Below the title bar, there is a "User Information" section with two text input fields: "Your Name:" (user3) and "Email Address" (user3@mt.com). Below that is a "Server Information" section with two text input fields: "Incoming Mail Server" (mt.com) and "Outgoing Mail Server" (mt.com). Below that is a "Logon Information" section with two text input fields: "User Name:" (user3) and "Password:" (masked with four dots). At the bottom, there are four buttons: "Save", "Remove", "Clear", and "Reset".

User Information	
Your Name:	user3
Email Address	user3@mt.com

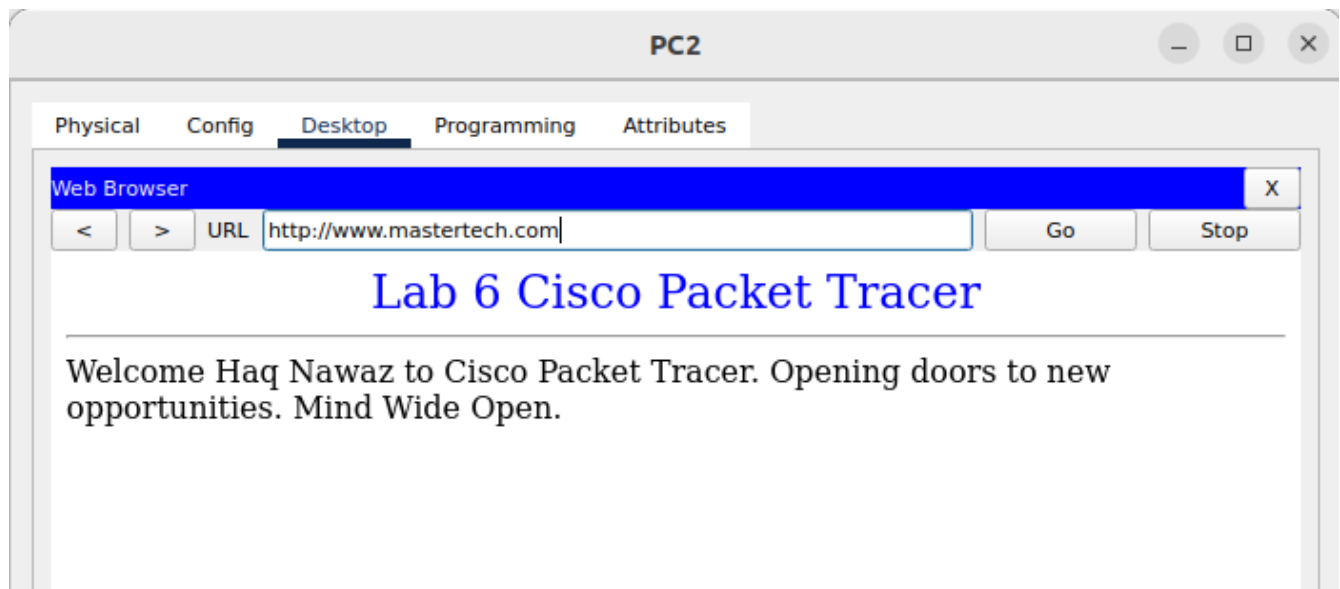
Server Information	
Incoming Mail Server	mt.com
Outgoing Mail Server	mt.com

Logon Information	
User Name:	user3
Password:

Buttons: Save, Remove, Clear, Reset

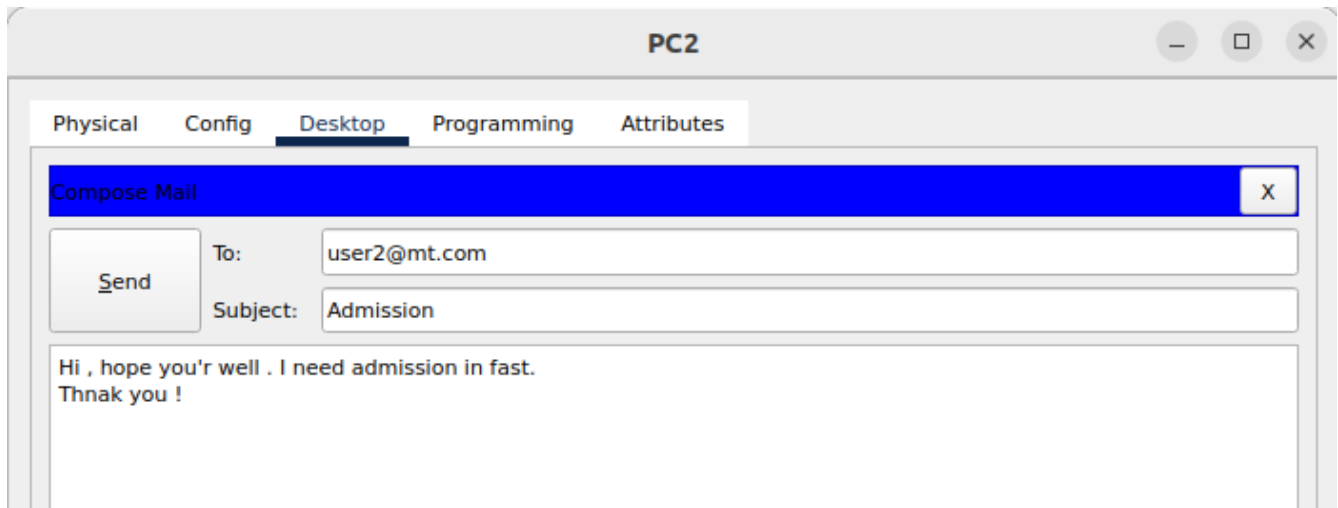
- Access Website from Pc's :

URL : www.mastertech.com

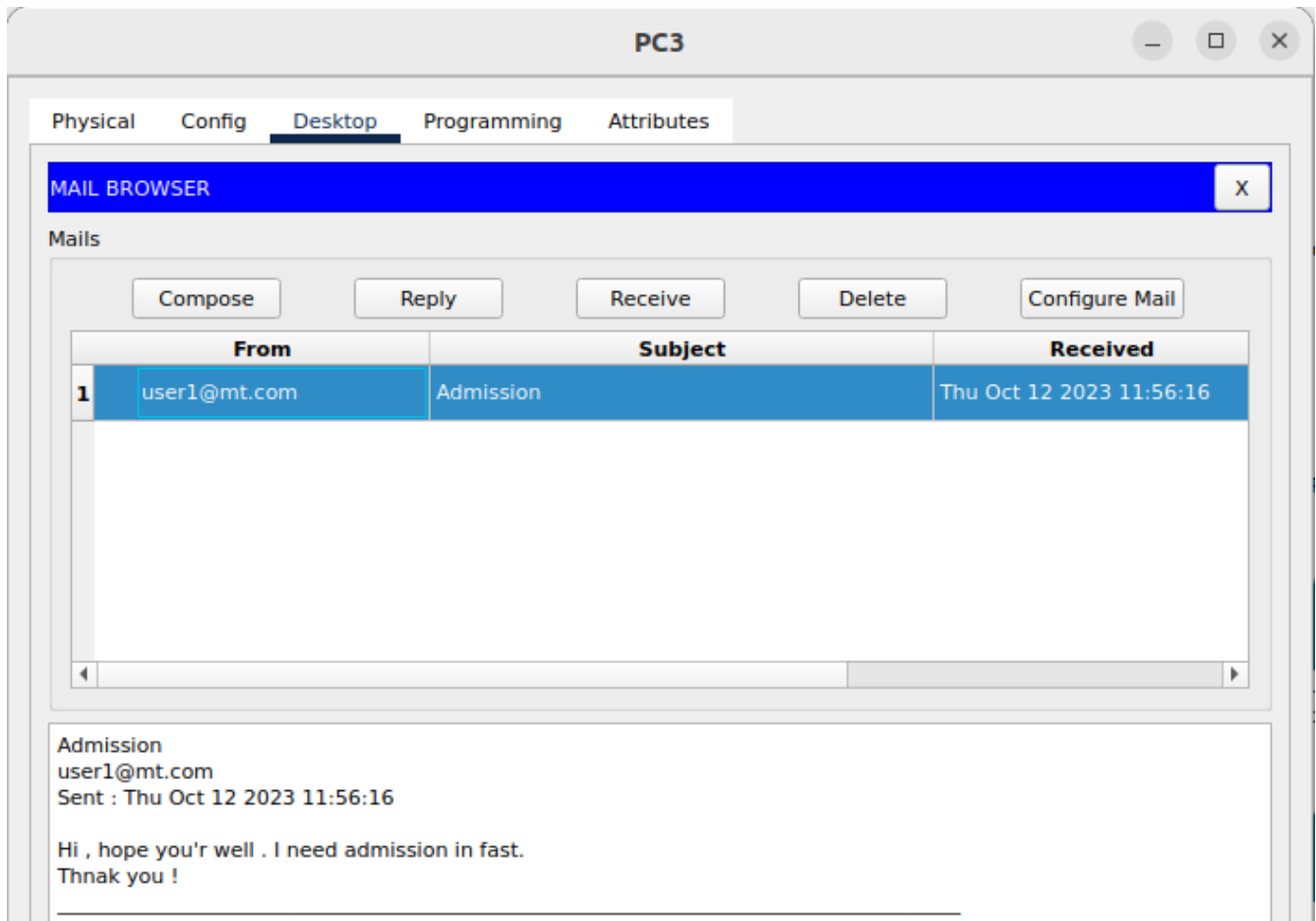


- Send Email's :

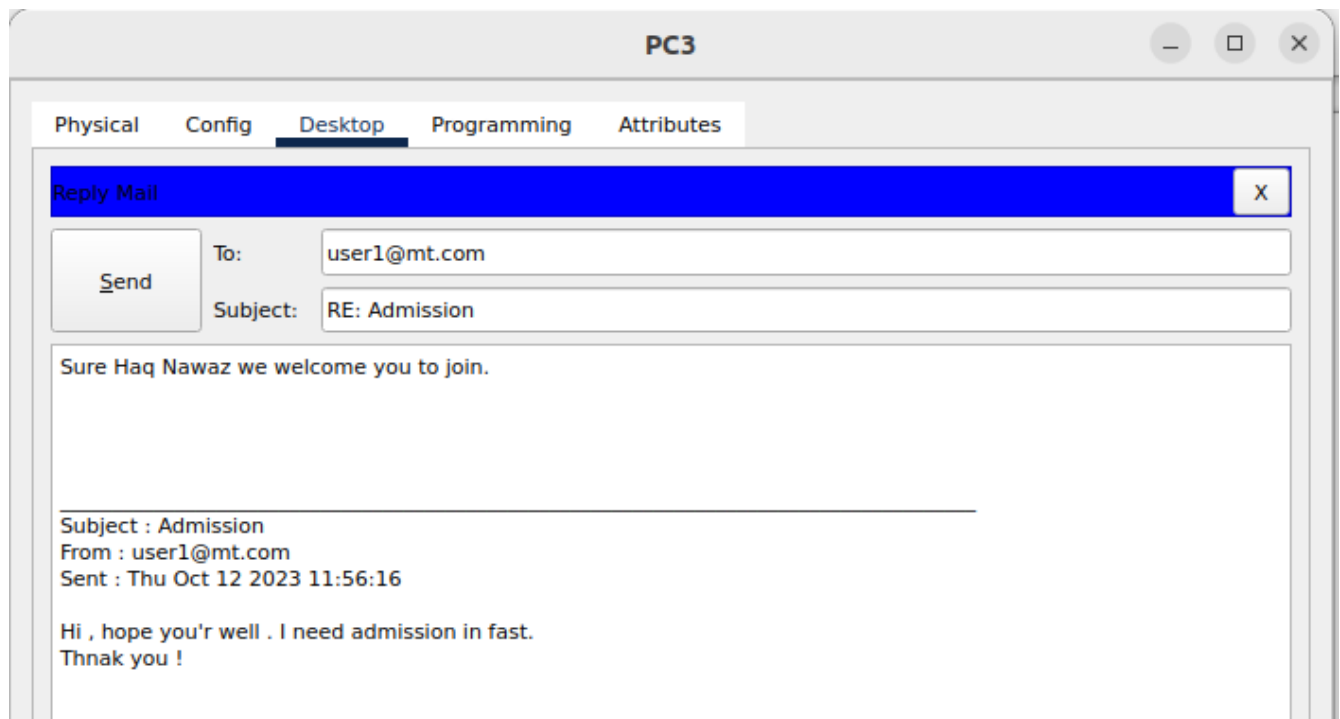
From Pc2 to Pc3 :



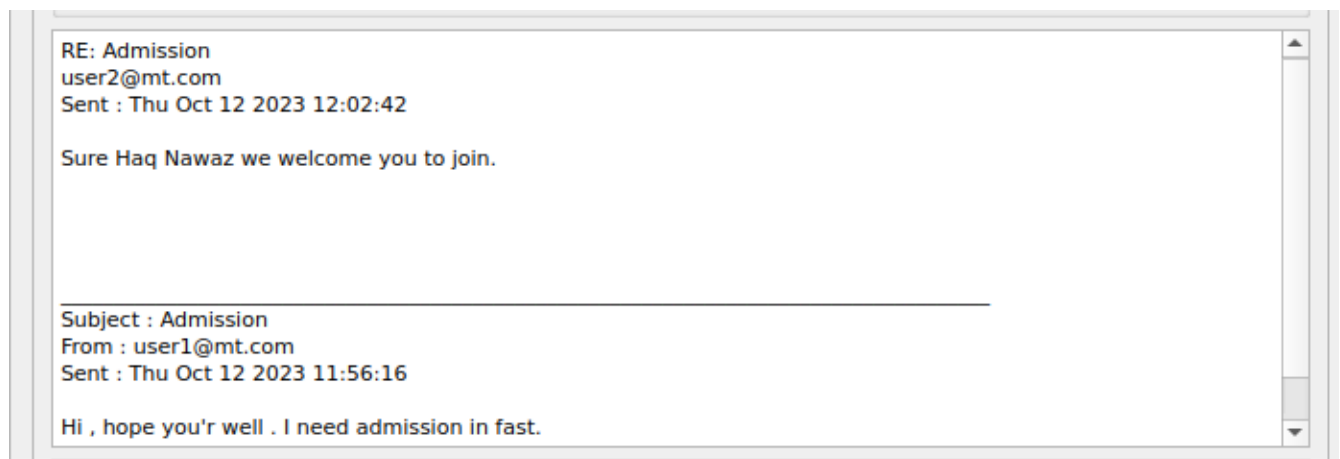
Pc3 Recived Email



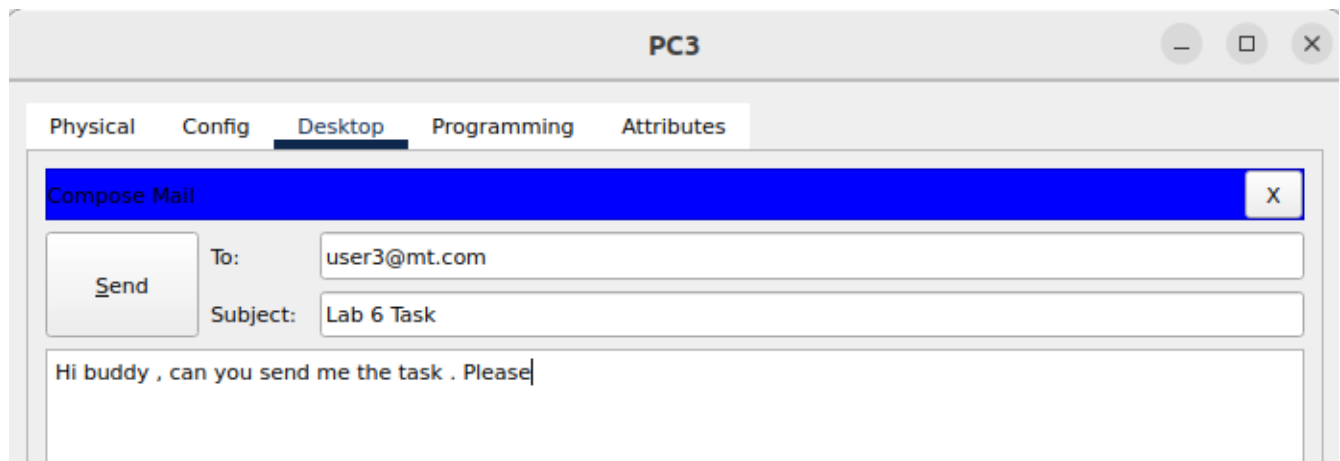
Pc3 Replay



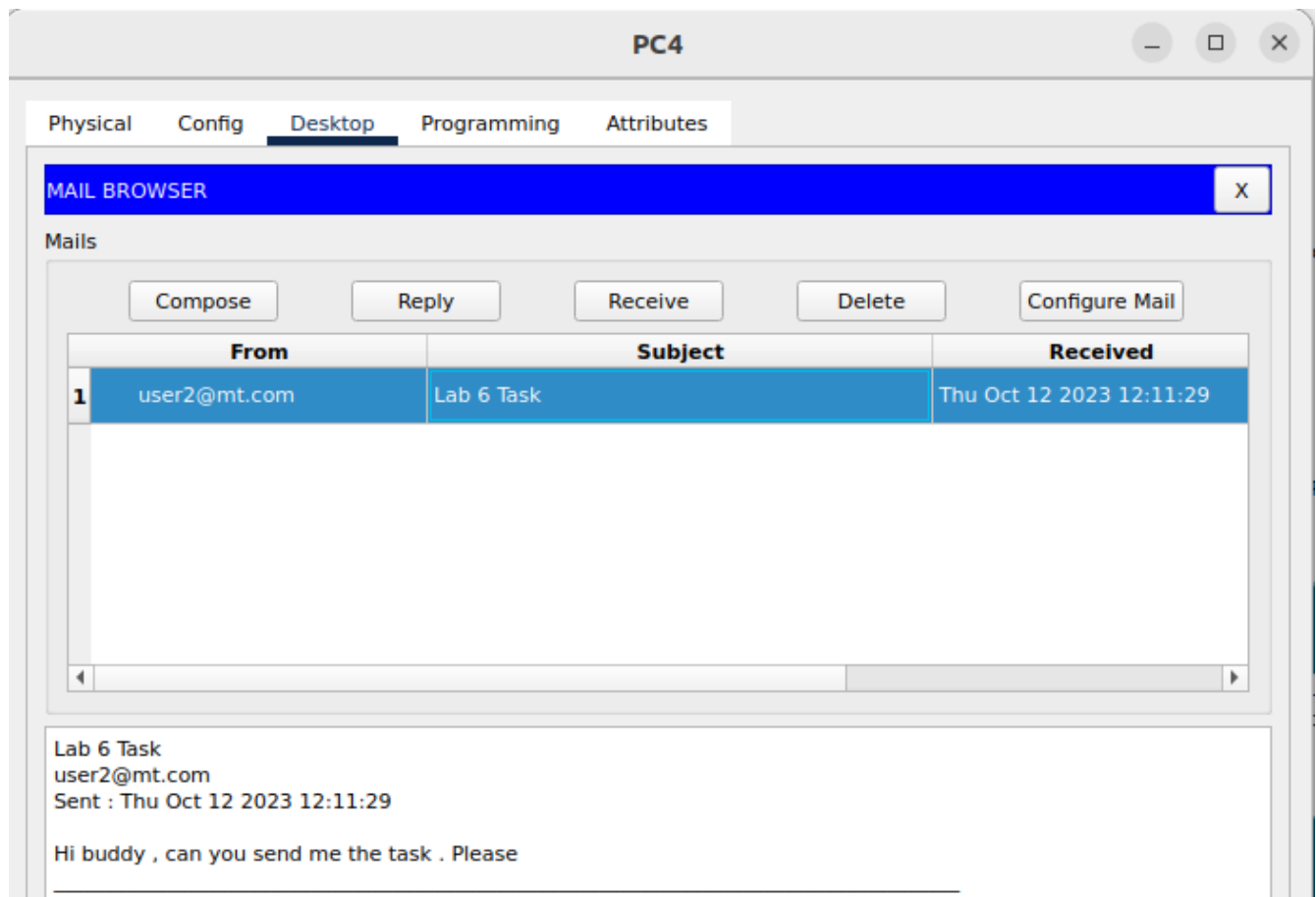
Pc2 Recived



From Pc3 to Pc4 :



Pc4 Recived



Pc4 Replay

PC4

Physical

Config

Desktop

Programming

Attributes

Reply Mail

X

Send

To: user2@mt.com

Subject: RE: Lab 6 Task

No , pakhpla kawa ror da gup ba na lagwo haha .|

Subject : Lab 6 Task
From : user2@mt.com
Sent : Thu Oct 12 2023 12:11:29

Hi buddy , can you send me the task . Please

Pc3 Recived

