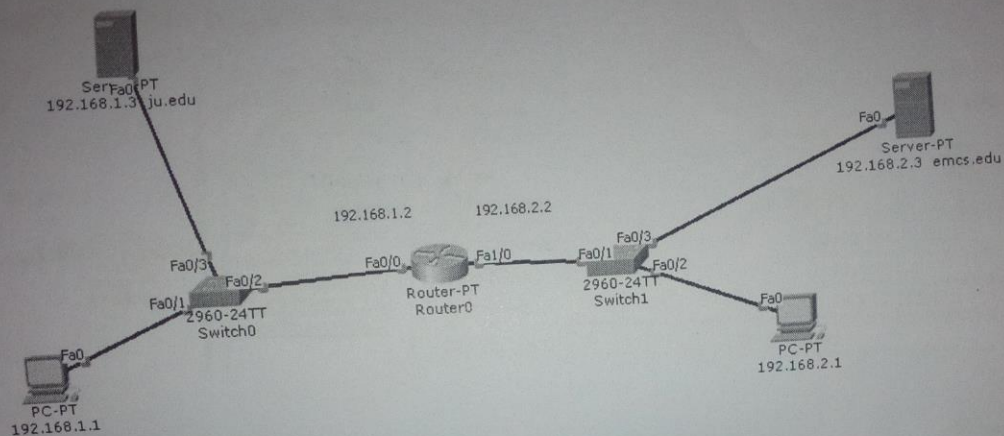


## Implementation of E-mail service

The network below has two mail/DNS servers:

Server1: IP: 192.168.1.3  
DNS name: ju.edu  
Server2: IP: 192.168.2.3  
DNS name: emcs.edu

User -1 in network 192.168.1.0 has e-mail address imdad@ju.edu and user-2 in network 192.168.2.0 has email address kabir@emcs.edu.



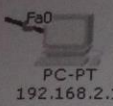
Step-1: Configure the host-1 of IP: 192.168.1.1

IP Configuration	
<input type="radio"/> DHCP	<input checked="" type="radio"/> Static
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.2
DNS Server	192.168.1.3

IPv6 Configuration	
<input type="radio"/> DHCP	<input type="radio"/> Auto Config
<input checked="" type="radio"/> Static	
IPv6 Address	
Link Local Address	FE80::2E0:8FFF:FE04:B00B

Step-2: Configure the host-2 of IP: 192.168.2.1



PC-PT  
192.168.2.1

**IP Configuration**

☐ DHCP ☒ Static


IP Address: 192.168.2.1

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.2.2

DNS Server: 192.168.2.3

Step-3: Configure both interfaces of the router



Router-PT  
Router0

192.168.1.2      192.168.2.2

Fa0/0      Fa1/0

**Algorithm Settings**

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

**Port Status** ☒ On

Bandwidth ☒ Auto

10 Mbps      100 Mbps

Duplex ☒ Auto


Full Duplex      Half Duplex

MAC Address: 0001.C9CC.100A

IP Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Tx Ring Limit: 10



Server-PT  
ter0

192.168.2.2

Fa1/0

**Algorithm Settings**

**ROUTING**

Static

RIP

**INTERFACE**

FastEthernet0/0

FastEthernet1/0

Serial2/0

Serial3/0

FastEthernet4/0

FastEthernet5/0

**Port Status** ☒ On

Bandwidth ☒ Auto

10 Mbps      100 Mbps

Duplex ☒ Auto

Full Duplex      Half Duplex

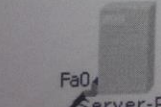
MAC Address: 0060.5CAB.EA19

IP Address: 192.168.2.2

Subnet Mask: 255.255.255.0

Tx Ring Limit: 10

Step-4: Configure the 1<sup>st</sup> DNS/mail server



Server-PT  
192.168.1.3 ju.edu

Fa0/0

**IP Configuration**

☐ DHCP ☒ Static

IP Address: 192.168.1.3

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.2

DNS Server: 192.168.1.3



192.168.1.3, ju.edu

Physical Config Desktop Software/Services

GLOBAL

Settings

Algorithm Settings

SERVICES

HTTP

DHCP

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

INTERFACE

FastEthernet

DNS

DNS Service ☒ On ☐ Off

Resource Records

Name Type A Record

Address

Add Save Remove

No.	Name	Type	Details
1	emcs.edu	A Record	192.168.2.3
2	ju.edu	A Record	192.168.1.3

192.168.1.3, ju.edu

GLOBAL

Settings

Algorithm Settings

SERVICES

HTTP

DHCP

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

EMAIL

SMTP Service ☒ ON ☐ OFF

POP3 Service ☒ ON ☐ OFF

Domain Name: ju.edu

User Setup

User imdad Password himu

+

Step-5: Configure the 2<sup>nd</sup> DNS/mail server

192.168.2.3 emcs.edu

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.2.3

Subnet Mask 255.255.255.0

Default Gateway 192.168.2.2

DNS Server 192.168.2.3

**DNS**

DNS Service ☒ On ☐ Off

Resource Records

Name  Type

Address

No.	Name	Type	Details
1	emcs.edu	A Record	192.168.2.3
2	ju.edu	A Record	192.168.1.3

Fa0  
Server-PT  
192.168.2.3 emcs.edu

**EMAIL**

SMTP Service ☒ ON ☐ OFF

POP3 Service ☒ ON ☐ OFF

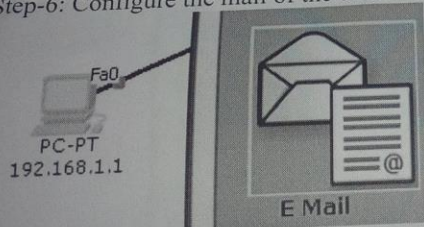
Domain Name:

User Setup

User  Password

Fa0  
Server-PT  
192.168.2.3 emcs.edu

Step-6: Configure the mail of the client -1





**Configure Mail**

User Information

Your Name:

Email Address:

Server Information

Incoming Mail Server:

Outgoing Mail Server:

Logon Information

User Name:

Password:

Fa0

PC-PT  
192.168.1.1

Step-7: Configure the mail of the client -2

**Configure Mail**

User Information

Your Name:

Email Address:

Server Information

Incoming Mail Server:

Outgoing Mail Server:

Logon Information

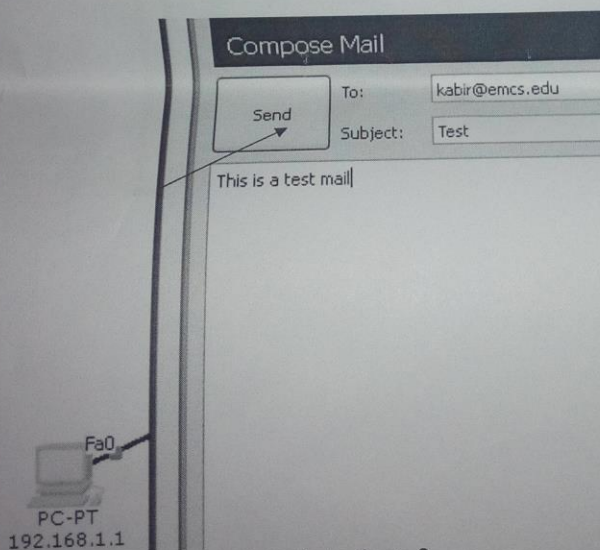
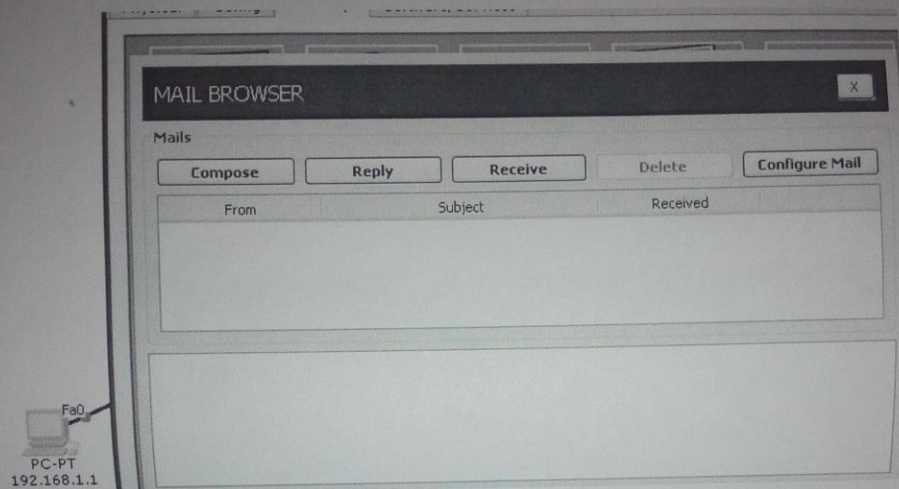
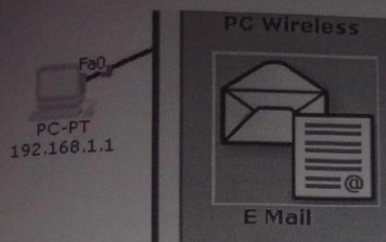
User Name:

Password:

Fa0

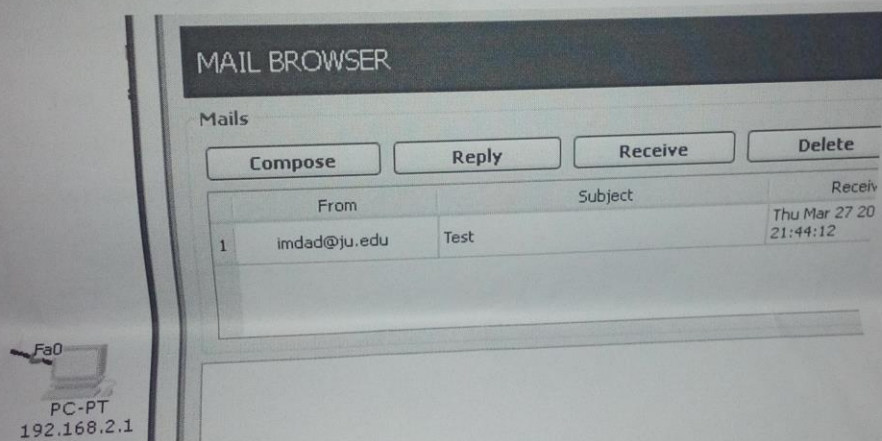
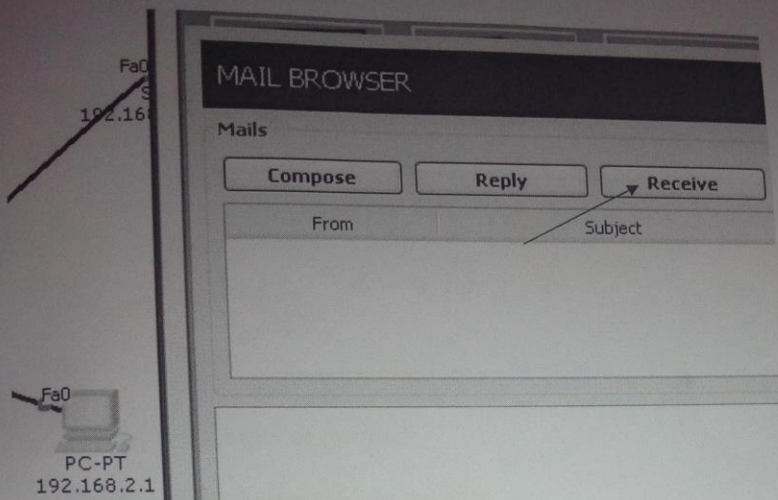
PC-PT  
192.168.2.1

Step-8: Send mail from client-1



Step-9: varify the received mail at client -2





Compose   Reply   Receive

	From	Subject
1	imdad@ju.edu	Test

Test  
imdad@ju.edu  
Sent : Thu Mar 27 2014 21:44:12

This is a test mail

Step-10 Verify the reply of the mail

Reply Mail

Send   To: imdad@ju.edu

Subject: RE: Test

I have received Your mail

---

Subject : Test  
From : imdad@ju.edu  
Sent : Thu Mar 27 2014 21:44:12

This is a test mail