

Name =

Abubaker Attique

Roll no =

P20-0560

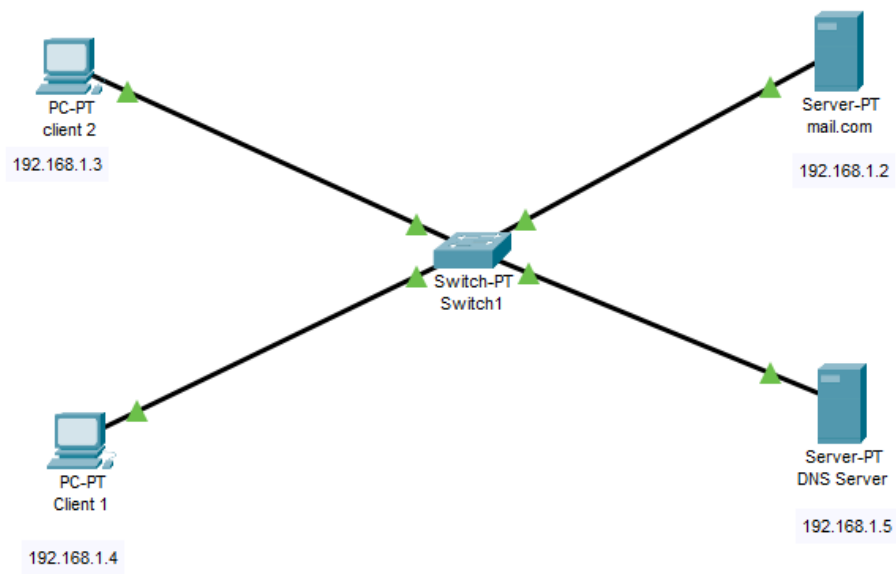
Section =

5-A

Lab 6

Task 1

1. Creating topology



Physical Config **Desktop** Programming Attributes

Configure Mail X

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:

Save Remove Clear Reset

PC1:

Physical Config **Desktop** Programming Attributes

Configure Mail [X]

User Information

Your Name:

Email Address:

Server Information

Incoming Mail Server:

Outgoing Mail Server:

Logon Information

User Name:

Password:

Mail Server:

5 semester\Computer Network Lab\lab5\email.pkt

Tools Extensions Window

mail.com

Physical Config **Services** Desktop Programming Attributes

SERVICES

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

EMAIL

SMTP Service ☒ ON ☐ OFF

POP3 Service ☒ ON ☐ OFF

Domain Name: mail.com Set

User Setup

User Password

client2
client1

+
-
Change
Password

PC-PT client 2
192.168.1.3

PC-PT Client 1
192.168.1.4

DNS configuration

calx: 185, y: 85

PC-PT client 2
192.168.1.3

PC-PT Client 1
192.168.1.4

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	mail.com	A Record	192.168.1.2

DNS Cache

Root

Source

Destination

Type

Color

Tim

Email service

Physical Config Desktop Programming Attributes

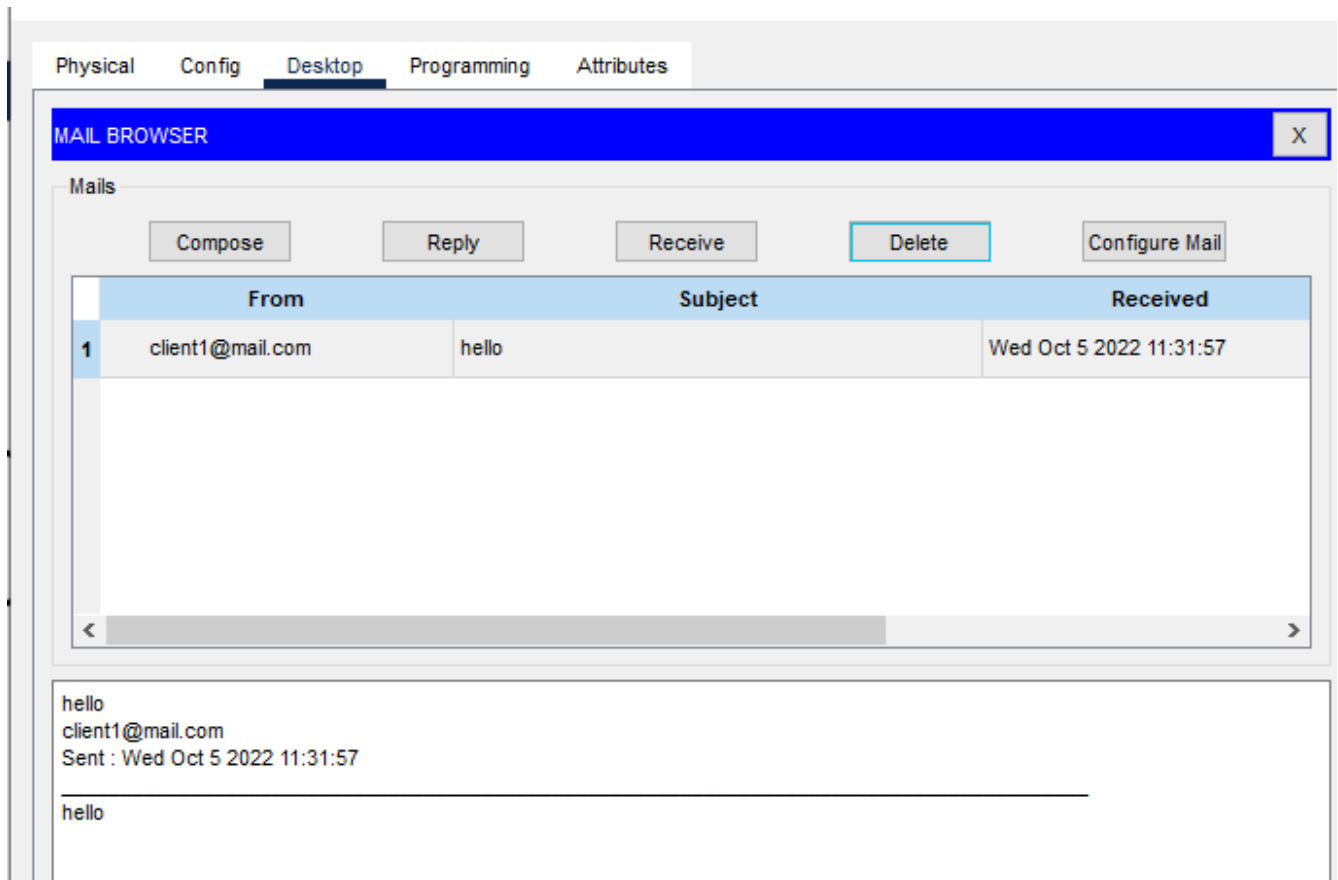
Compose Mail X

Send To: client2@mail.com

Subject: hello

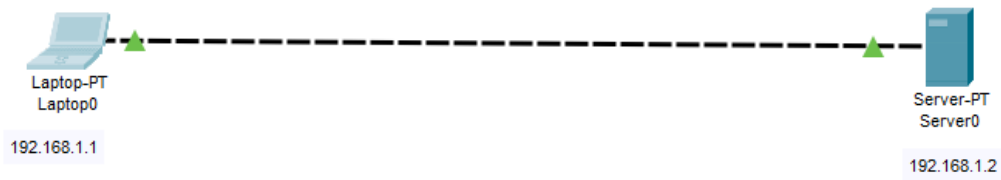
hello world

Receiver



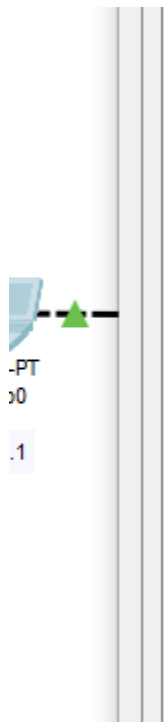
Task 2

Create topology.



```
Cisco Packet Tracer PC Command Line 1.0
C:\>ftp 192.168.1.2
Trying to connect...192.168.1.2
Connected to 192.168.1.2
220- Welcome to PT Ftp server
Username:cisco
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
```

Creating a file :



File Name ? X

Enter the new File Name

myfile.txt

OK Cancel

Physical Config **Services** Desktop Programming Attributes

SERVICES

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

FTP

Service ☒ On ☐ Off

User Setup

Username Password

☐ Write ☐ Read ☐ Delete ☐ Rename ☐ List

	Username	Password	Permission	
1	cisco	cisco	RWDNL	<div>Add</div>

Save

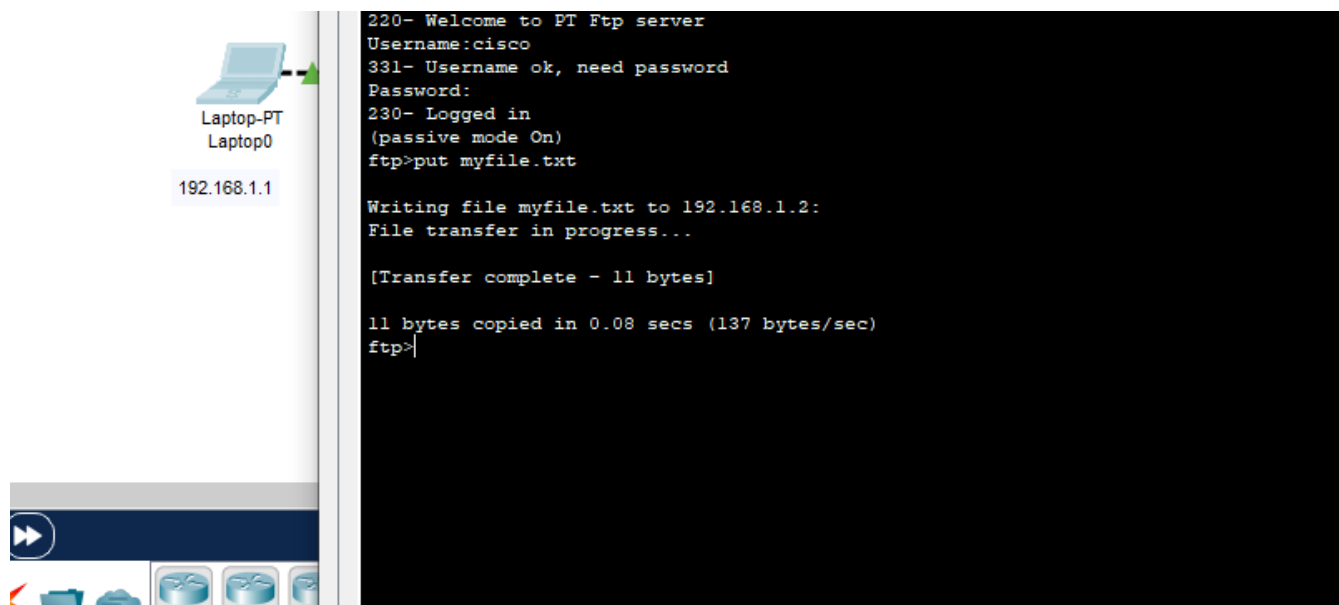
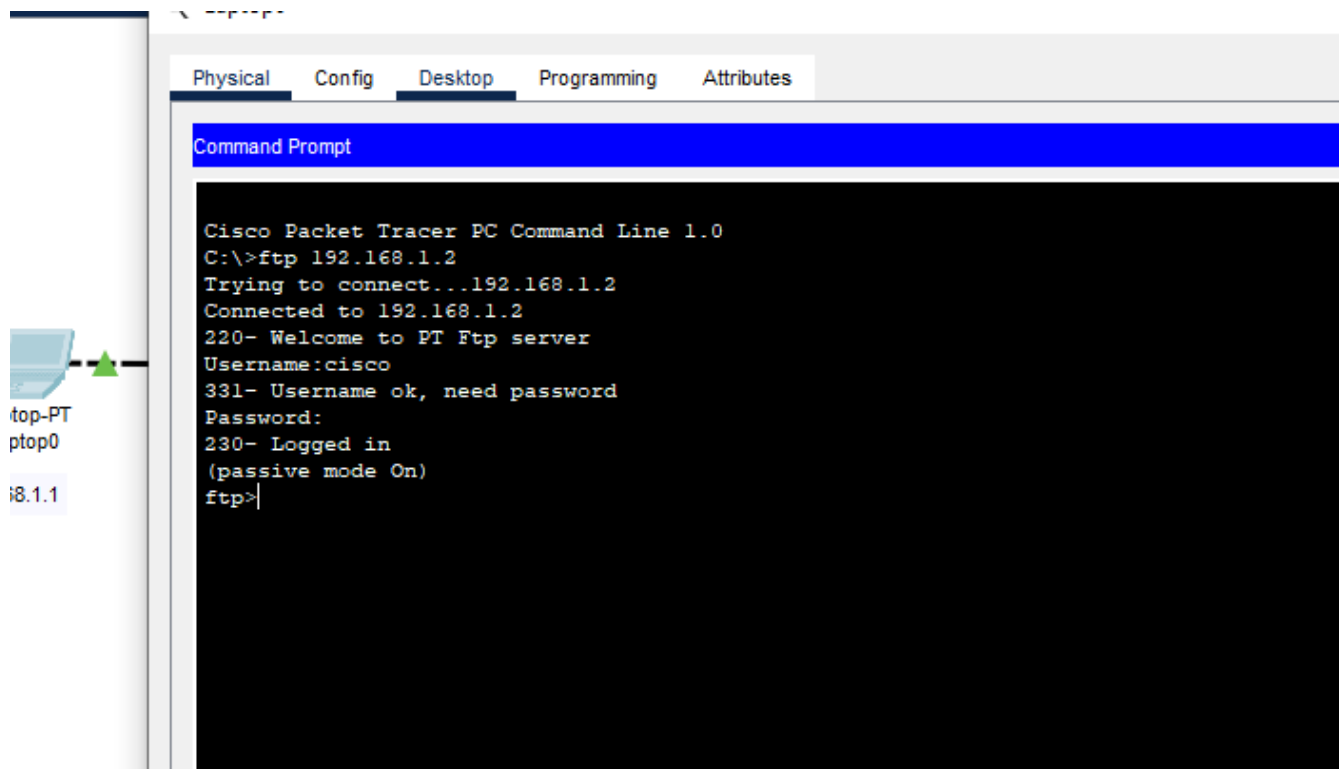
Remove

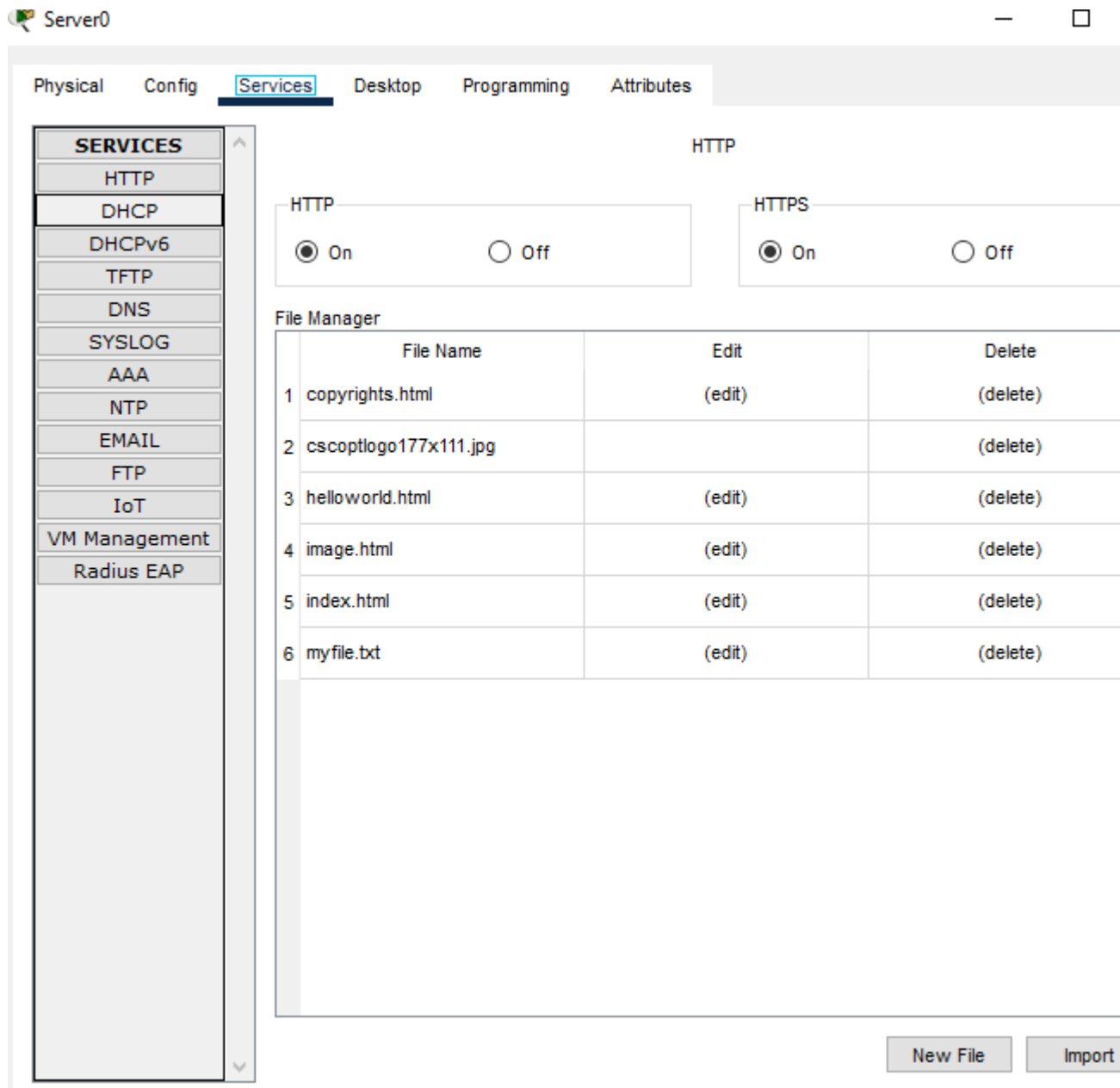
File

30	ir800_yocto-1.7.2.tar
31	ir800_yocto-1.7.2_python-2.7.3.tar
32	myfile.txt
33	pt1000-i-mz.122-28.bin
34	pt3000-i6q4l2-mz.121-22.EA4.bin

Remove

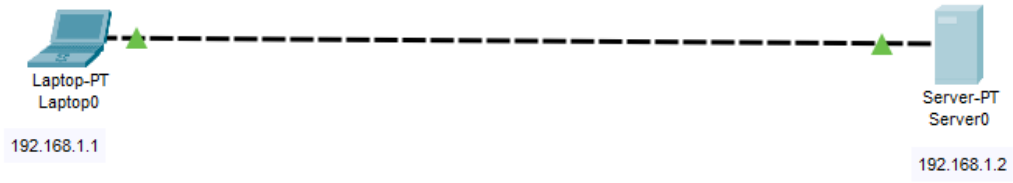
Now upload the file from the Laptop



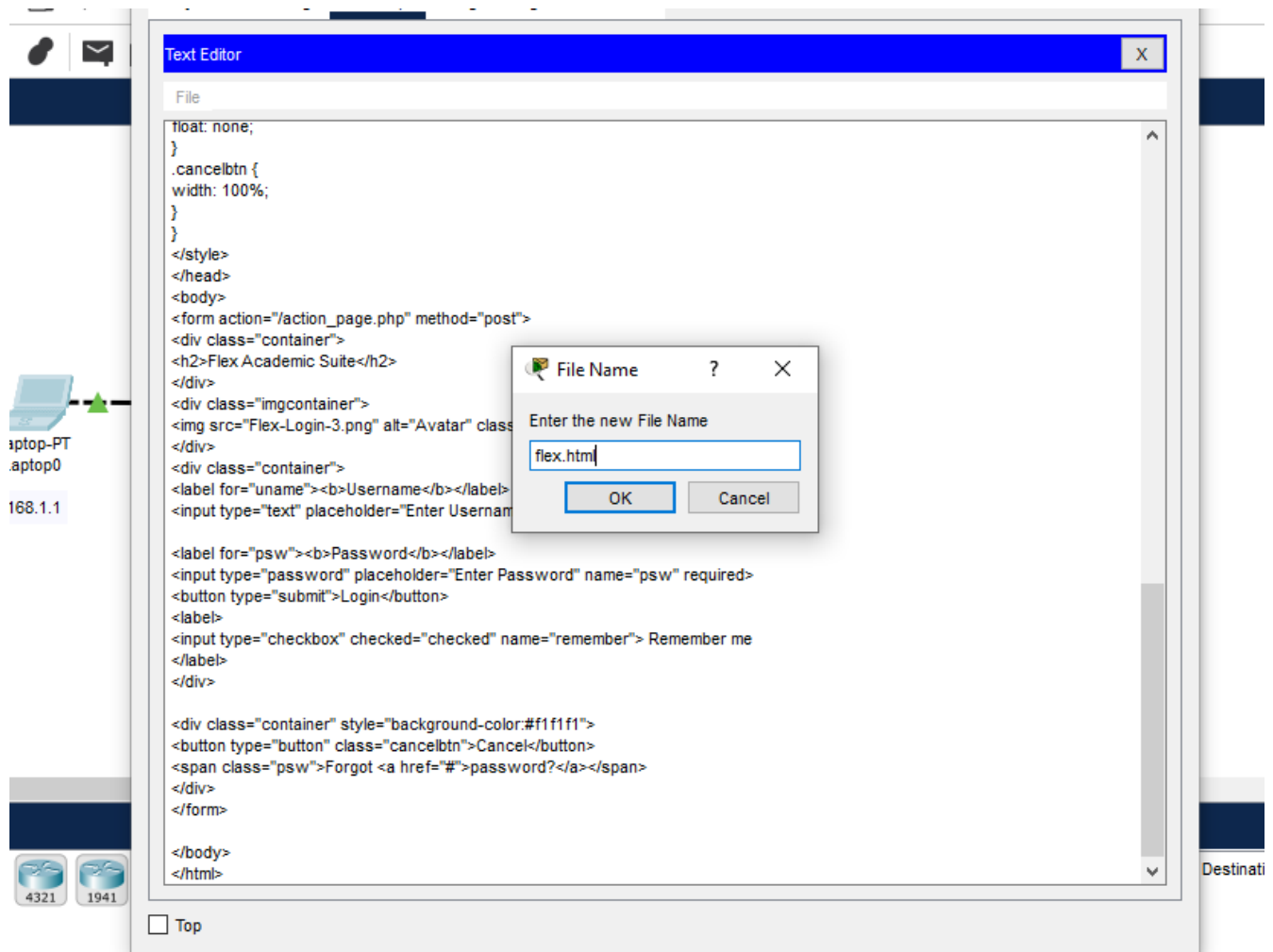


Task 3: Create and Upload html file to HTTP server directory Using FTP

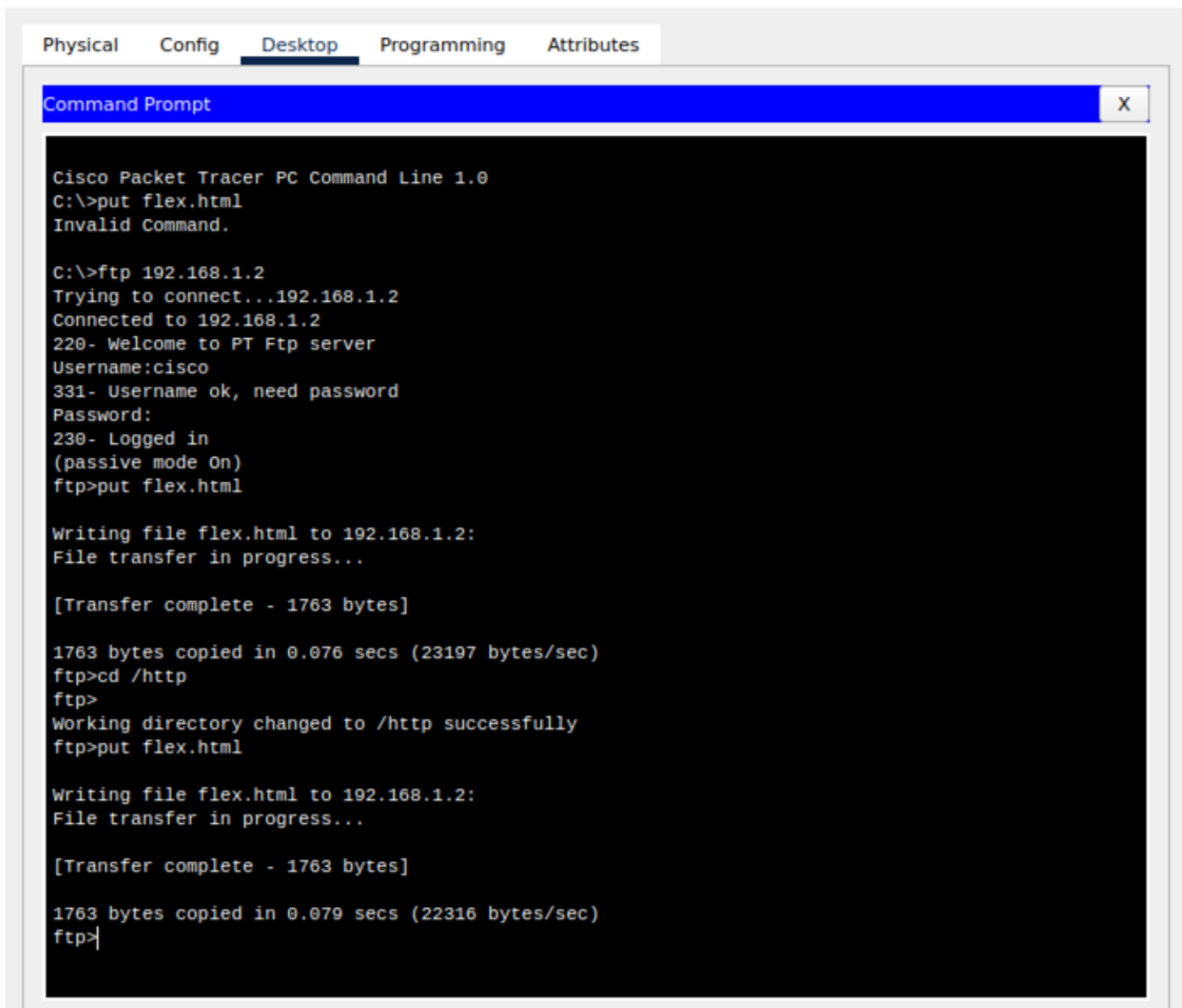
creating the following topology



Create an html file



Upload the html file onto the HTTP directory.



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

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

File Manager

	File Name	Edit	Delete
1	copyrights.html	(edit)	(delete)
2	cscoptlogo177x111.jpg		(delete)
3	flex.html	(edit)	(delete)
4	helloworld.html	(edit)	(delete)
5	image.html	(edit)	(delete)
6	index.html	(edit)	(delete)
7	myFile.txt	(edit)	(delete)

Edit html file in the HTTP directory

Now edit index.html file in the HTTP directory so as to include a link to flex that we've just uploaded. This will make flex accessible from the Laptop's browser. To do this, locate index.html then click edit. Proceed to edit it as shown below. Then save and accept overwrite.

Physical
Config
Services
Desktop
Programming
Attributes

SERVICES

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

File Name: index.html

```

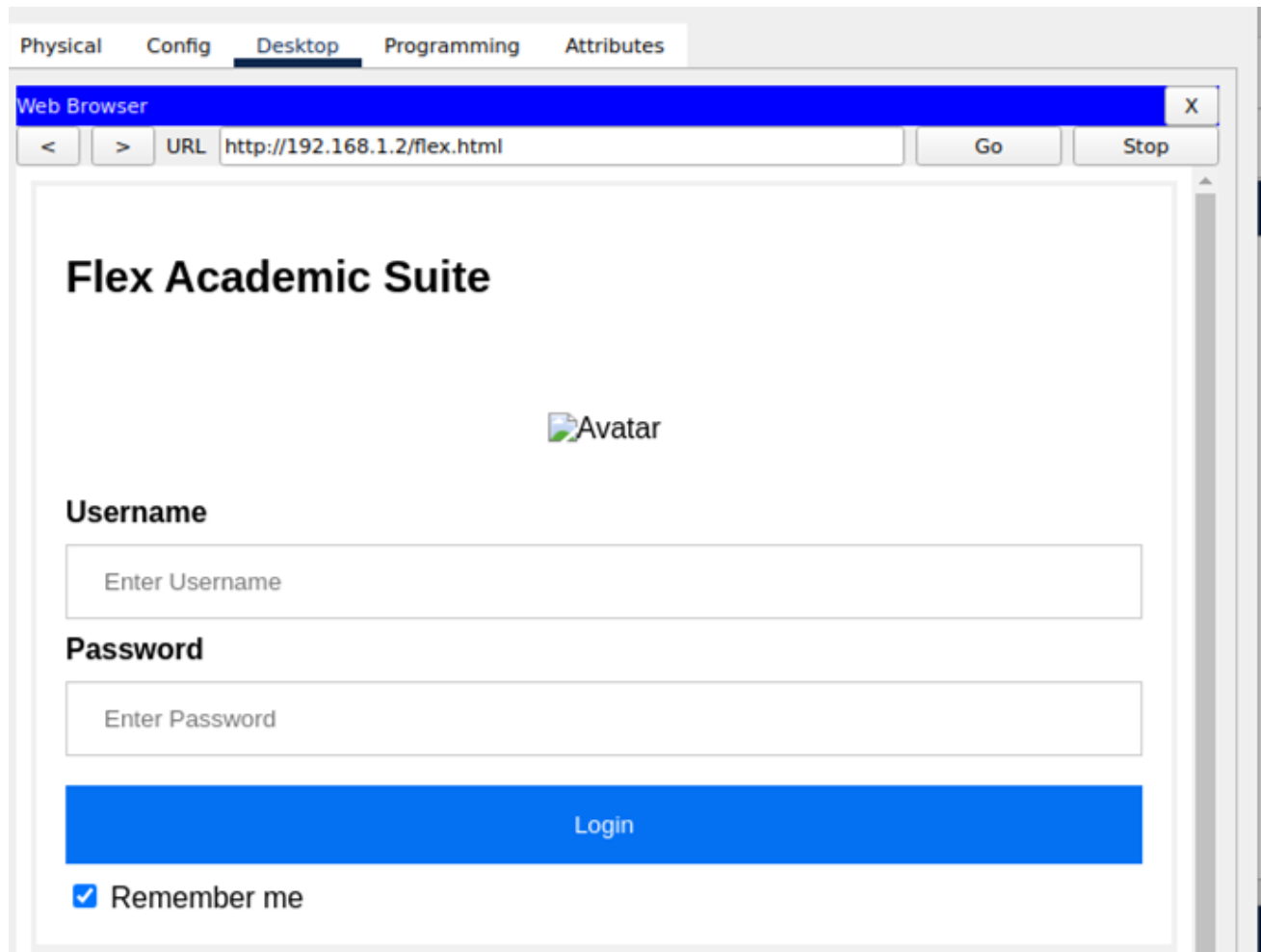
<html>
<center><font size='+2' color='blue'>Cisco Packet Tracer</font></center>
<hr>Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide
Open.
<p>Quick Links:
<br><a href='helloworld.html'>A small page</a>
<br><a href='copyrights.html'>Copyrights</a>
<br><a href='image.html'>Image page</a>
<br><a href='cscoptlogo177x111.jpg'>Image</a>
<br><a href='flex.html'>Flex Login</a>
</html>

```

Finally, try to access the newly uploaded file from the Laptop's browser.

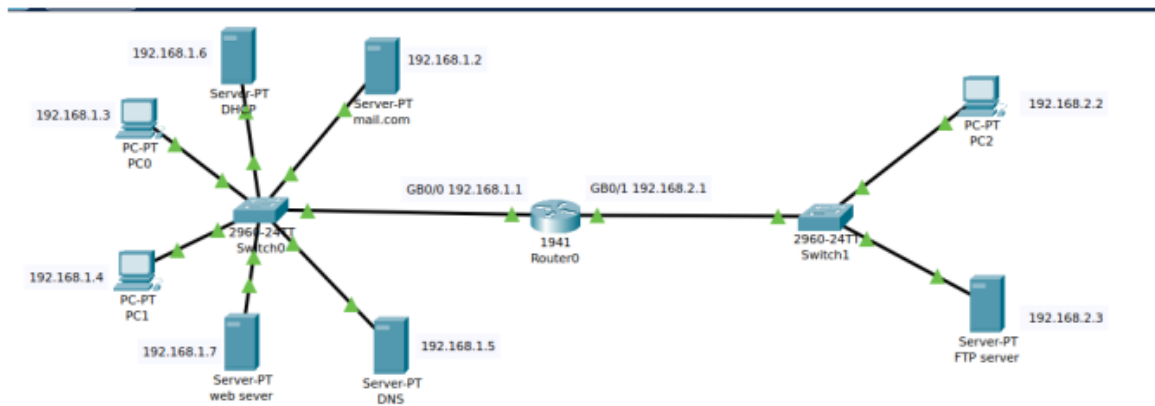


Click flex link to view the contents of the file in the browser.



4. Configure Mail server, Ftp Server, DHCP Server, DNS Server and web Server in a single topology, use router and switch.

1. Build the following topology



2. Configure IP addresses on the PCs, DNS Server, DHCP server, Web server, FTP server and the Mail Server

- Mail Server IP address: 192.168.1.2
- PC0 IP address: 192.168.1.4
- PC1 IP address: 192.168.1.3
- DNS server IP address: 192.168.1.5
- DHCP server IP address: 192.168.1.6
- Web server IP address: 192.168.1.7
- Router GigabitEthernet0/0 IP address: 192.168.1.1
- Router GigabitEthernet0/1 IP address: 192.168.2.1
- PC2 IP address: 192.168.2.2 (dynamic through DHCP pool)

.) FTP server IP address: 192.168.2.3 (through pool DHCP)

IP Configuration

IP Configuration

☒ DHCP ☐ Static

IPv4 Address: 192.168.2.3

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.2.1

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::201:C9FF:FE28:740A

Default Gateway:

DNS Server:

3. Do the Following for router configuration

Press RETURN to get started!

Press RETURN to get started!

```
Router>
Router>
Router>en
Router#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#
Router(config)#ip dhcp pool P1
Router(dhcp-config)#network 192.168.1.0 255.255.255.0^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
^Z
Router#en
Router#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip dhcp pool P1
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
Router(dhcp-config)#ip dhcp pool P2
Router(dhcp-config)#network 192.168.2.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.2.1
Router(dhcp-config)#
```

4 . Create a file in the PC2 then upload it to the server using FTP

DONE ABOVE

5) Now upload the file from the PC2 to the server using FTP
DONE ABOVE

6 . Go to the Server FTP directory to verify if the file sent has been received

The screenshot shows the Mikrotik WinBox interface with the 'Services' tab selected. On the left, a sidebar lists various services, with 'FTP' highlighted. The main area is titled 'FTP' and shows the service status as 'On'. Below this, the 'User Setup' section includes fields for 'Username' and 'Password', and checkboxes for 'Write', 'Read', 'Delete', and 'Rename'. A table below the checkboxes lists the configured user 'cisco' with the password 'cisco' and permission 'RWDNL'. At the bottom, a 'File' section displays a list of files in the FTP directory, including 'ir800_yocto-1.7.2.tar', 'ir800_yocto-1.7.2_python-2.7.3.tar', 'myfile.txt', 'pt1000-i-mz.122-28.bin', and 'pt3000-i6q4l2-mz.121-22.EA4.bin'.

FTP		
Service	<input checked="" type="radio"/> On	
User Setup		
Username	Password	
<input type="checkbox"/> Write	<input type="checkbox"/> Read	<input type="checkbox"/> Delete
<input type="checkbox"/> Rename		
1	Username	Password
	cisco	cisco
		Permission
		RWDNL
File		
30	ir800_yocto-1.7.2.tar	
31	ir800_yocto-1.7.2_python-2.7.3.tar	
32	myfile.txt	
33	pt1000-i-mz.122-28.bin	
34	pt3000-i6q4l2-mz.121-22.EA4.bin	

7. Configure mail clients on the PCs and mail service on the generic server. Mail Clients:

Laptop0

Physical Config **Desktop** Programming Attributes

Configure Mail

User Information

Your Name: client1

Email Address: client1@mail.com

Server Information

Incoming Mail Server: mail.com

Outgoing Mail Server: mail.com

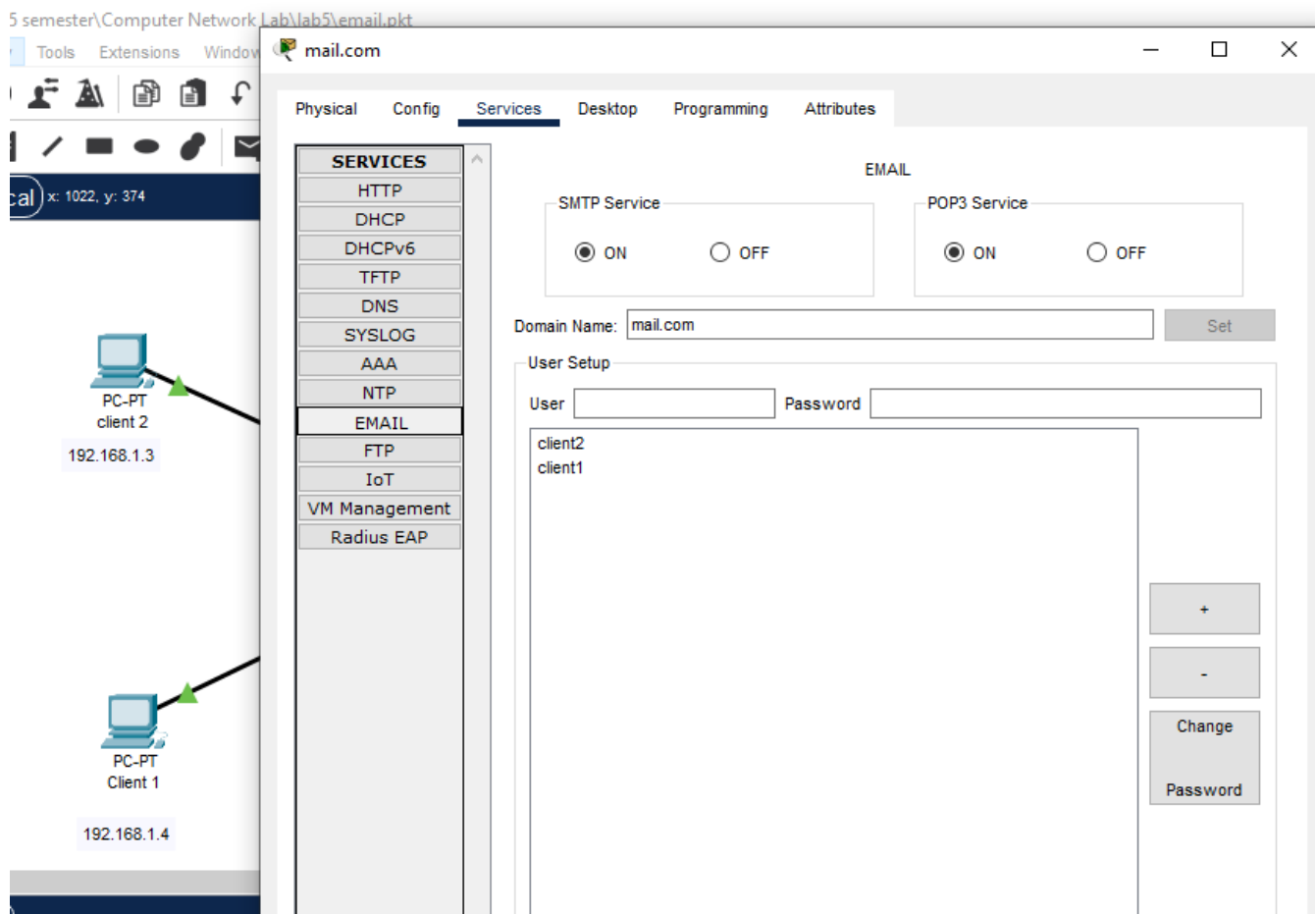
Logon Information

User Name: client1

Password:

Save Remove Clear Rese

8. Mail Server:



9. DNS configuration

