

**Izaan Mohtashim**

**P20-0613**

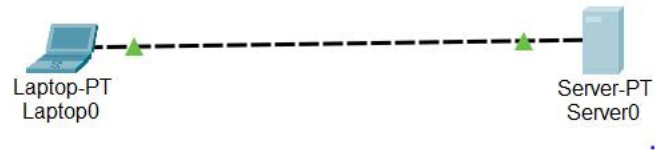
**Sec 5A**

**Computer Networks**

**Lab Task6**

## TASK 1:

task 1



Activate the ftp server services, and add a new client or use an existing one for this activity.

Server0

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>
				<div>Save</div>
				<div>Remove</div>

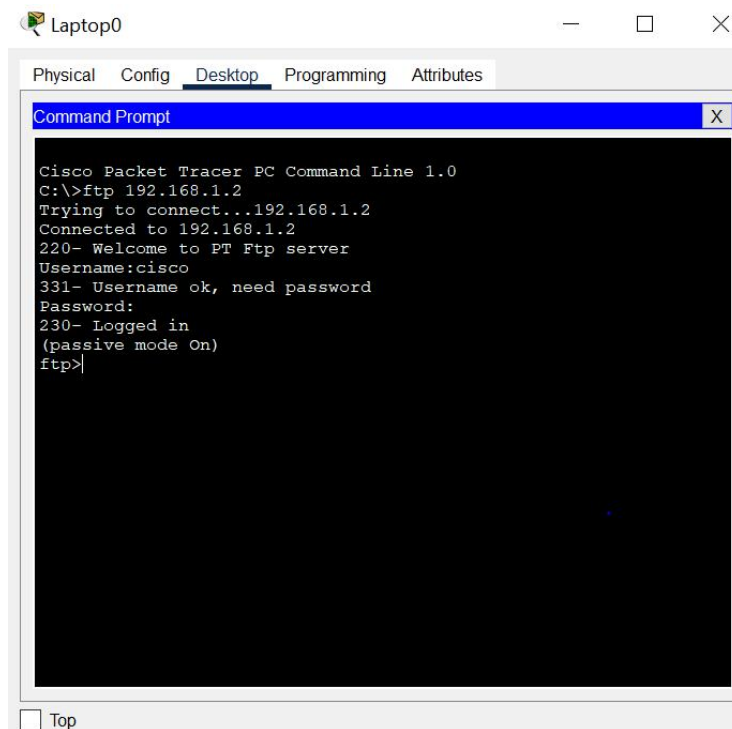
File

1	asa842-k8.bin
2	asa923-k8.bin

Remove

☐ Top

Connect to the server using ftp at 192.168.1.2 (server's IP address), then enter a username and password to connect.

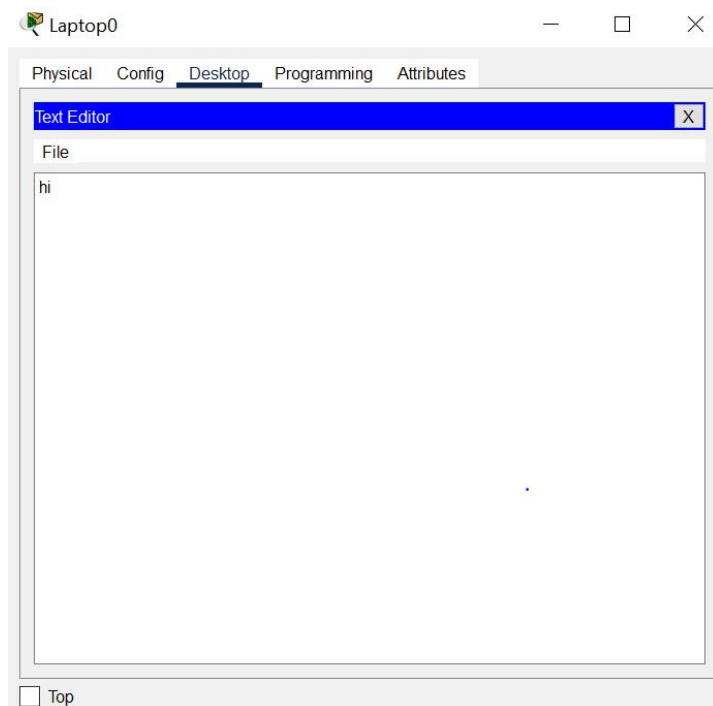


The screenshot shows a Cisco Packet Tracer PC Command Line window titled "Command Prompt". The window has tabs for Physical, Config, Desktop, Programming, and Attributes, with "Desktop" selected. The command prompt shows the following text:

```
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)
ftp>
```

At the bottom of the window, there is a "Top" button.

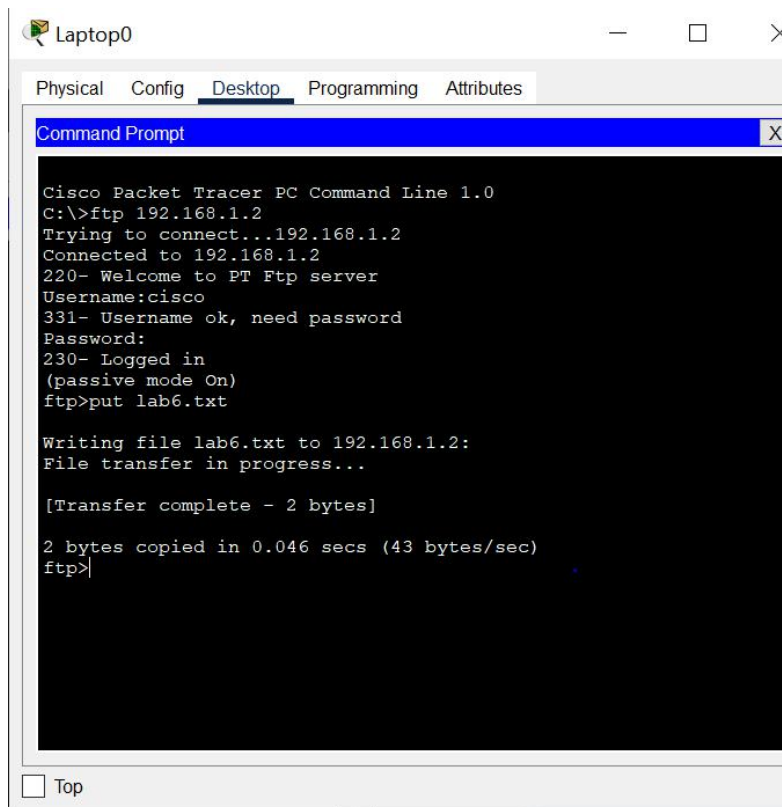
Create text file by text editor



The screenshot shows a Cisco Packet Tracer Text Editor window titled "Text Editor". The window has tabs for Physical, Config, Desktop, Programming, and Attributes, with "Desktop" selected. The text editor shows a file named "File" with the text "hi" entered.

At the bottom of the window, there is a "Top" button.

Use command put file name to put or upload the file to server



The screenshot shows a 'Command Prompt' window within a 'Laptop0' device in Cisco Packet Tracer. The window title is 'Command Prompt' with a close button. The tabs at the top are 'Physical', 'Config', 'Desktop' (selected), 'Programming', and 'Attributes'. The command line interface shows the following text:

```
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)
ftp>put lab6.txt

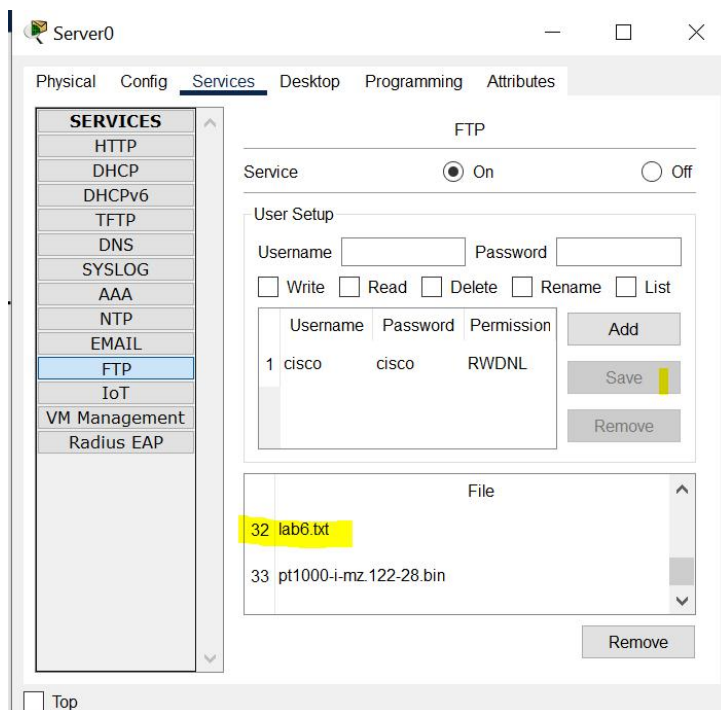
Writing file lab6.txt to 192.168.1.2:
File transfer in progress...

[Transfer complete - 2 bytes]

2 bytes copied in 0.046 secs (43 bytes/sec)
ftp>
```

At the bottom left of the window, there is a 'Top' button.

Now we will check that file is upload on ftp service or not.



The screenshot shows the 'Server0' configuration window in Cisco Packet Tracer. The 'Services' tab is selected. On the left, a list of services includes HTTP, DHCP, DHCPv6, TFTP, DNS, SYSLOG, AAA, NTP, EMAIL, FTP (highlighted), IoT, VM Management, and Radius EAP. The main area is titled 'FTP' and shows the 'Service' status as 'On' (radio button selected). Below this is the 'User Setup' section with a table of users:

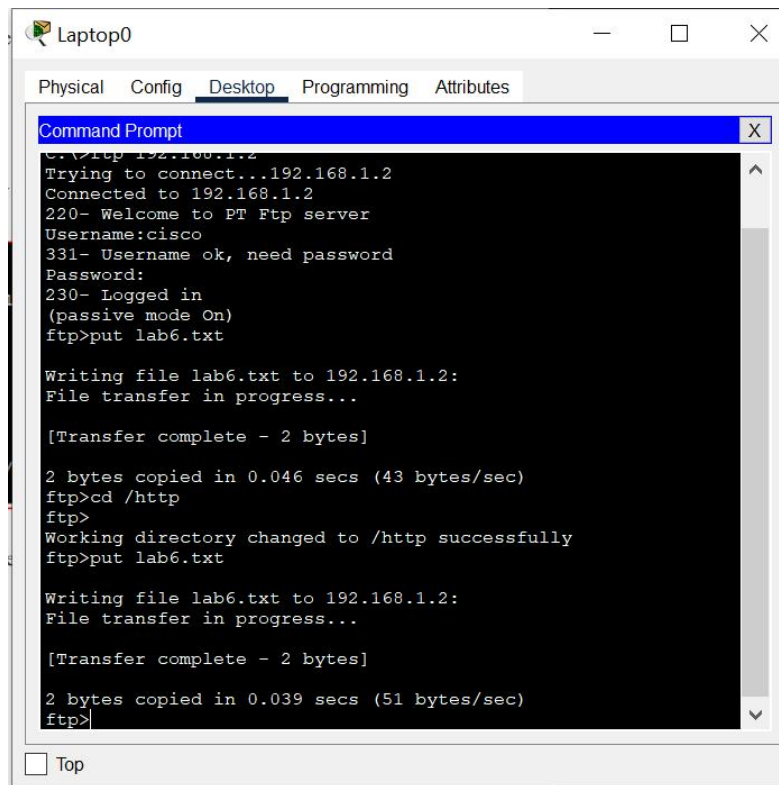
	Username	Password	Permission	
1	cisco	cisco	RWDNL	<div><div>Add</div><div>Save</div><div>Remove</div></div>

Below the user setup is a 'File' list:

	File	
32	lab6.txt	<div><div></div><div>Remove</div></div>
33	pt1000-i-mz.122-28.bin	

At the bottom left of the window, there is a 'Top' button.

Now we will use cd command to change the directory of file in http service folder.



```
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)
ftp>put lab6.txt

Writing file lab6.txt to 192.168.1.2:
File transfer in progress...

[Transfer complete - 2 bytes]

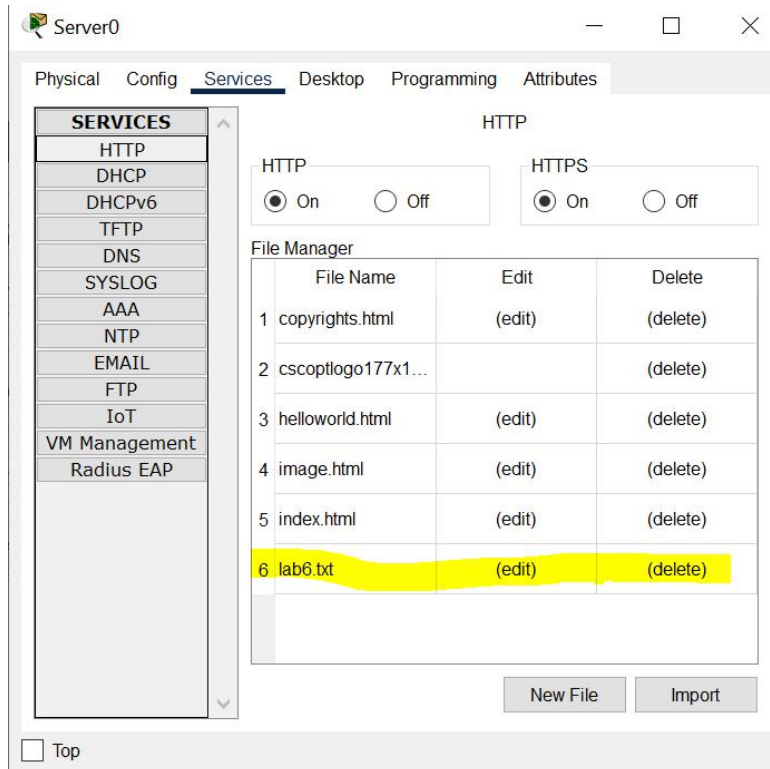
2 bytes copied in 0.046 secs (43 bytes/sec)
ftp>cd /http
ftp>
Working directory changed to /http successfully
ftp>put lab6.txt

Writing file lab6.txt to 192.168.1.2:
File transfer in progress...

[Transfer complete - 2 bytes]

2 bytes copied in 0.039 secs (51 bytes/sec)
ftp>
```

Now we will go in server and check that file is upload in HTTP or not.



Physical Config **Services** Desktop Programming Attributes

**SERVICES**

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

HTTP

HTTP ☒ On ☐ Off    HTTPS ☒ On ☐ Off

File Manager

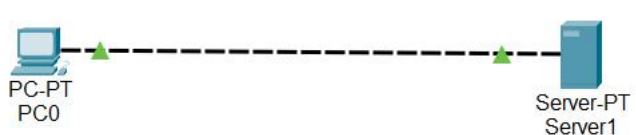
	File Name	Edit	Delete
1	copyrights.html	(edit)	(delete)
2	cscoptlogo177x1...		(delete)
3	helloworld.html	(edit)	(delete)
4	image.html	(edit)	(delete)
5	index.html	(edit)	(delete)
6	lab6.txt	(edit)	(delete)

New File    Import

## TASK 2:

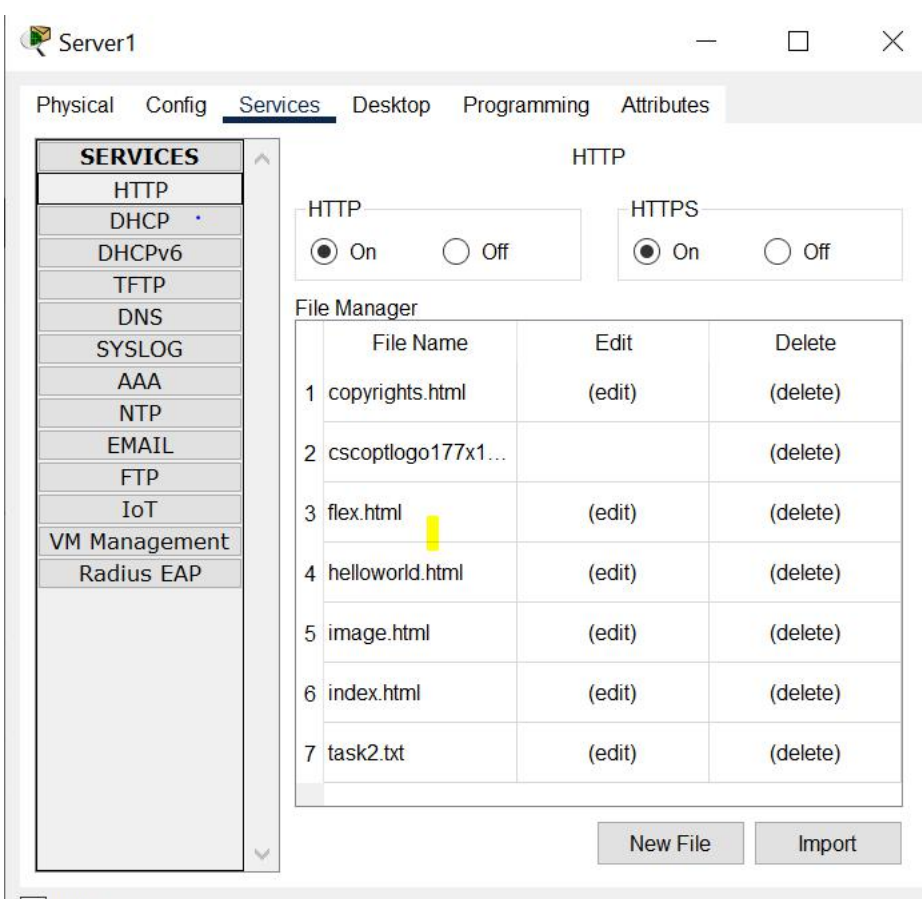
Now we will create and upload html file to HTTP server directory Using FTP

task 2



PC-PT PC0

Server-PT Server1

Server1

Physical Config **Services** Desktop Programming Attributes

**SERVICES**

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

HTTP

HTTP ☒ On ☐ Off

HTTPS ☒ On ☐ Off

File Manager

	File Name	Edit	Delete
1	copyrights.html	(edit)	(delete)
2	cscoptlogo177x1...		(delete)
3	flex.html	(edit)	(delete)
4	helloworld.html	(edit)	(delete)
5	image.html	(edit)	(delete)
6	index.html	(edit)	(delete)
7	task2.txt	(edit)	(delete)

New File Import

Top

Now first we will enable http and ftp services in server.

Server1

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>
				<div>Save</div>
				<div>Remove</div>

File

1

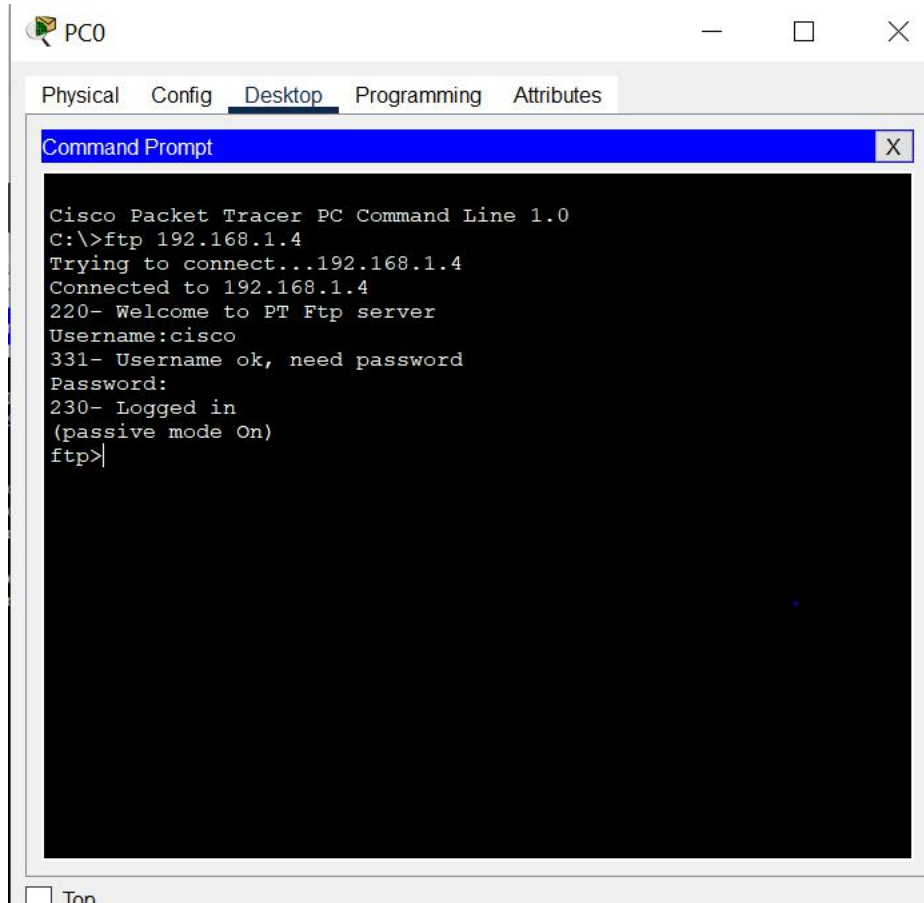
asa842-k8.bin

2

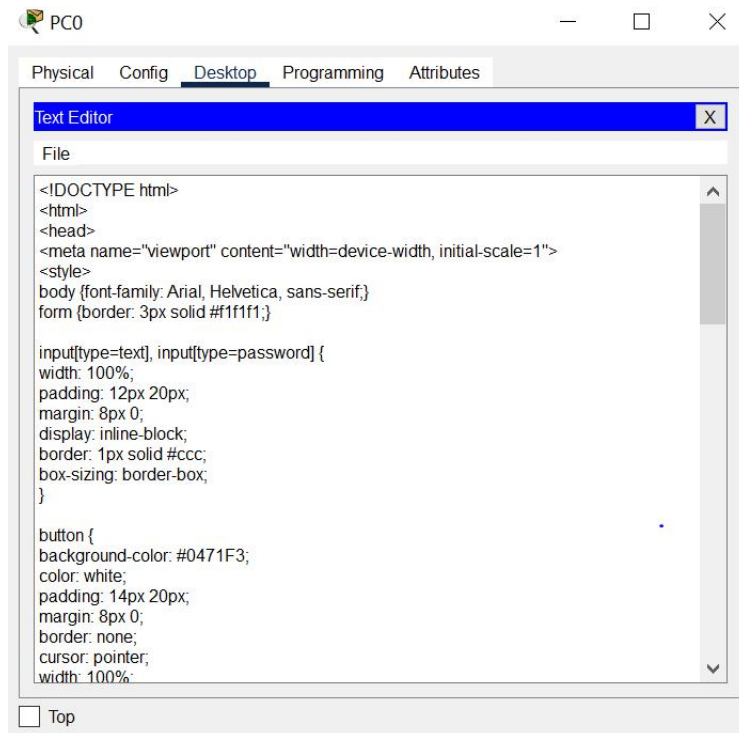
asa923-k8.bin

Remove

Top

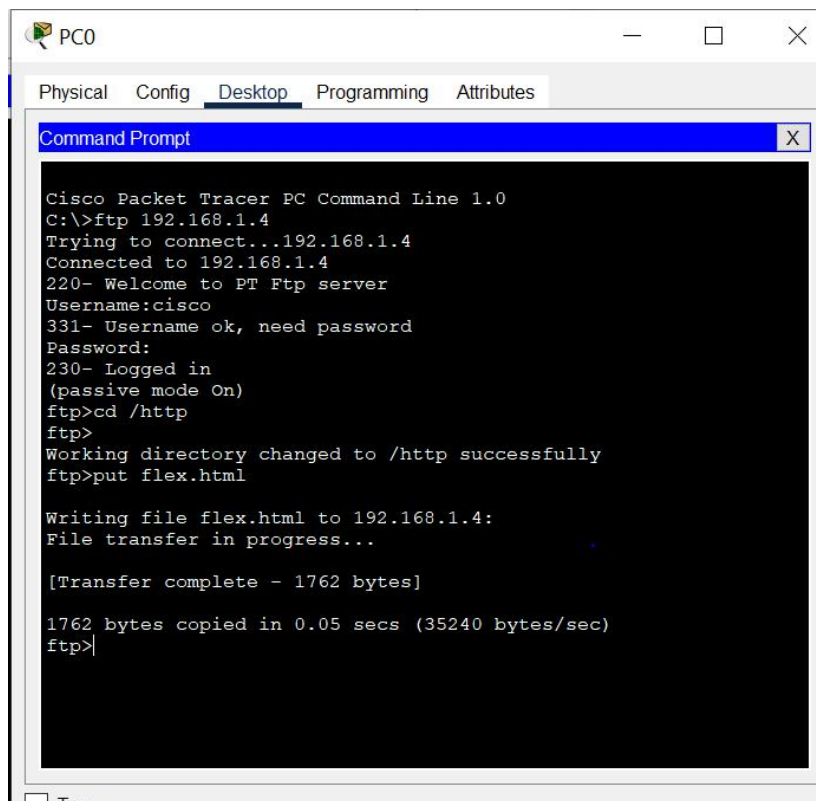


Now we will create html file and save some code in the file .





Then we upload the html file to the ftp server and then we will change the directory to http.



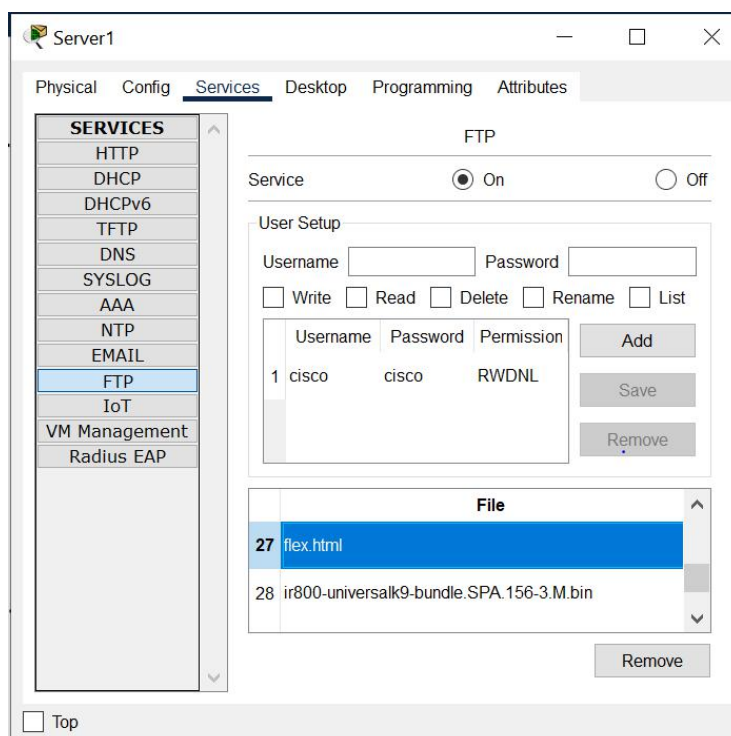
The screenshot shows a Cisco Packet Tracer PC Command Line interface for PC0. The user has entered the following commands and received the following responses:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ftp 192.168.1.4
Trying to connect...192.168.1.4
Connected to 192.168.1.4
220- Welcome to PT Ftp server
Username:cisco
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>cd /http
ftp>
Working directory changed to /http successfully
ftp>put flex.html

Writing file flex.html to 192.168.1.4:
File transfer in progress...
[Transfer complete - 1762 bytes]

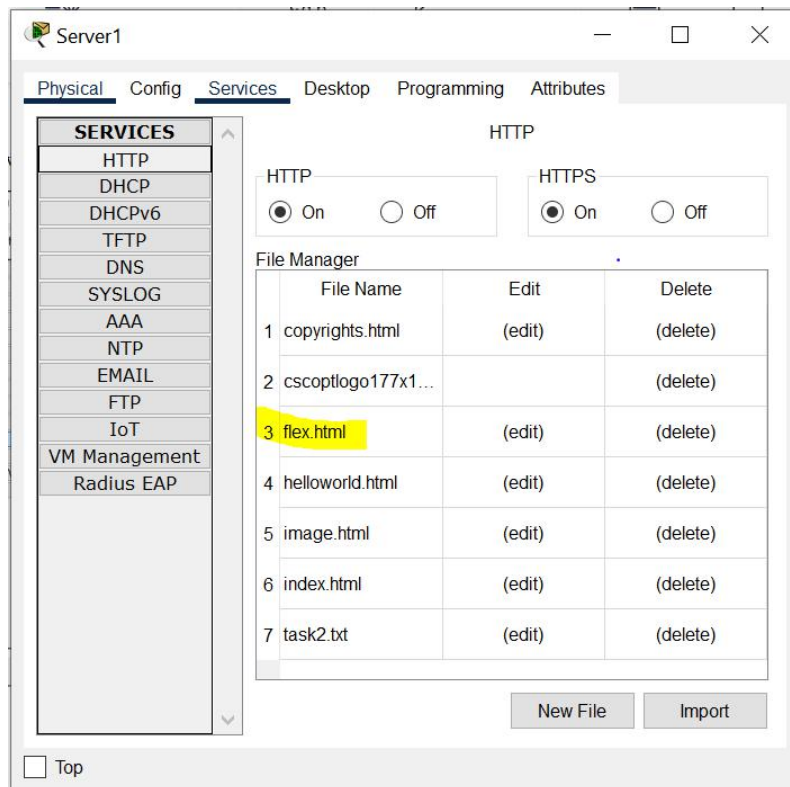
1762 bytes copied in 0.05 secs (35240 bytes/sec)
ftp>
```

Now we will go and check that both http and ftp file is uploaded or not on server.

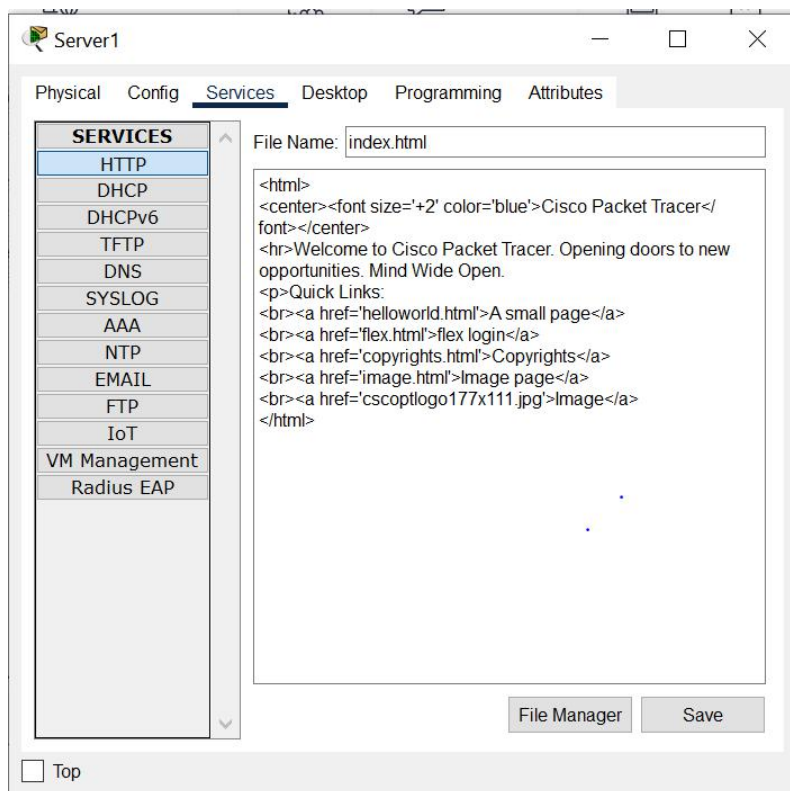


The screenshot shows the Server1 configuration window in Cisco Packet Tracer, specifically the Services tab. The FTP service is enabled (On). The User Setup section shows a user named 'cisco' with password 'cisco' and RWDNL permissions. The File list shows two files: 'flex.html' (27) and 'ir800-universalk9-bundle.SPA.156-3.M.bin' (28).

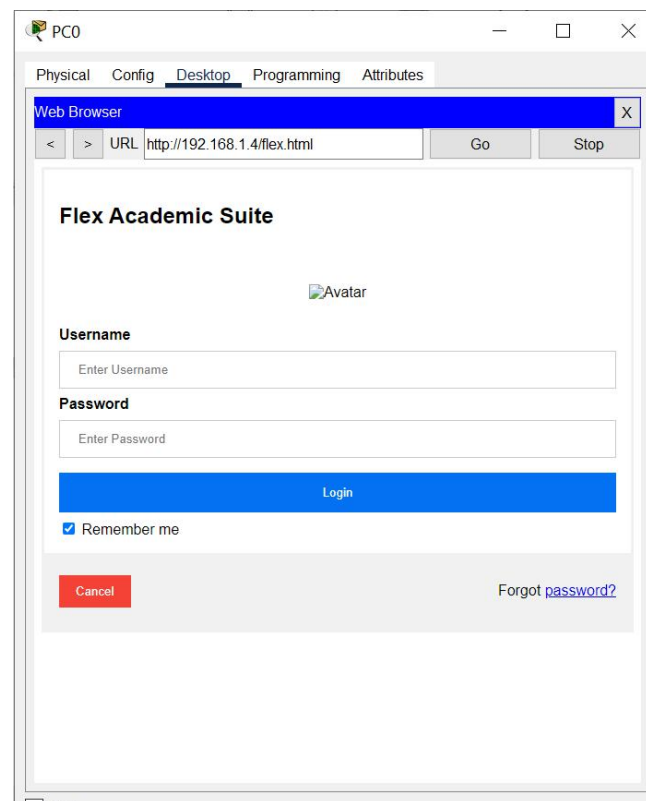
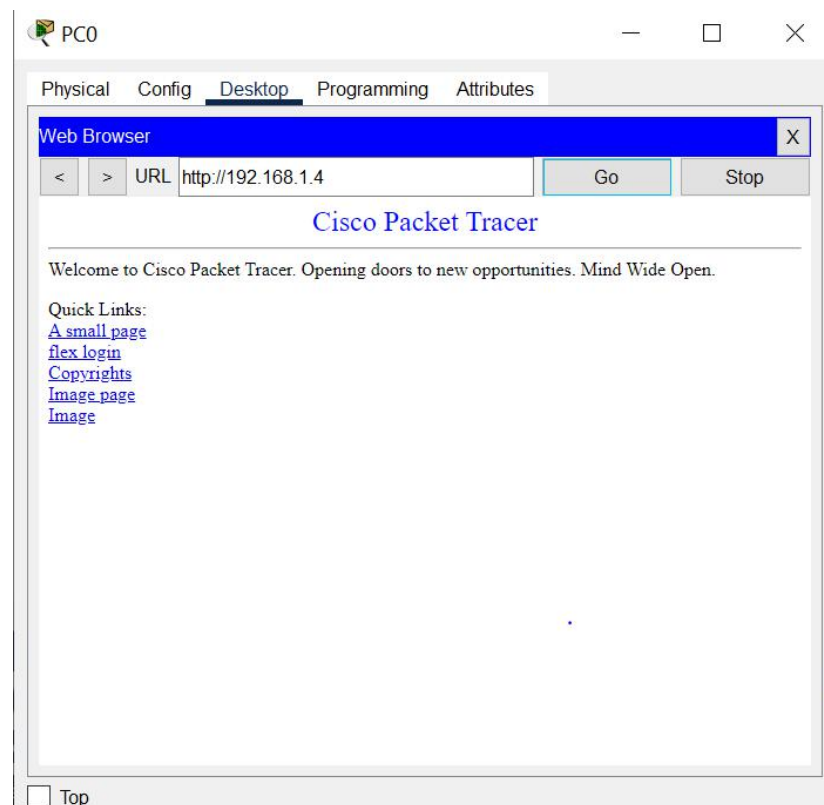
FTP			
Service <input checked="" type="radio"/> On <input type="radio"/> Off			
User Setup			
Username		Password	
<input type="checkbox"/> Write	<input type="checkbox"/> Read	<input type="checkbox"/> Delete	<input type="checkbox"/> Rename
<input type="checkbox"/> List			
Username	Password	Permission	
1 cisco	cisco	RWDNL	<input type="button" value="Add"/>
			<input type="button" value="Save"/>
			<input type="button" value="Remove"/>
File			
27	flex.html		
28	ir800-universalk9-bundle.SPA.156-3.M.bin		
<input type="button" value="Remove"/>			



Now go to http server and change index.html file and add a tag with new uploaded file to attach it with http server so we can access it easily.



And now we will go in pc web browser and check that our file is connected or not.



## TASK 3:

Enable mail services on a mail server with a domain name and users

The screenshot shows the configuration interface for Server14. The 'Services' tab is selected, and the 'EMAIL' section is expanded. The 'SMTP Service' is set to 'ON'. The 'Domain Name' is 'mail.com'. Under 'User Setup', there are two users listed: 'pc1' and 'pc2'. To the right, a network diagram labeled 'Task #3' shows a topology with a central '2911 Router' connected to two '2960-24TT Switch' devices (Switch15 and Switch17). Various servers and laptops are connected to these switches, including 'PC-PT PC35', 'Laptop-PT Laptop10', 'Server-PT Server12', 'Server-PT Server13', and 'Server-PT Server14'. IP addresses and gateway information are provided for several devices.

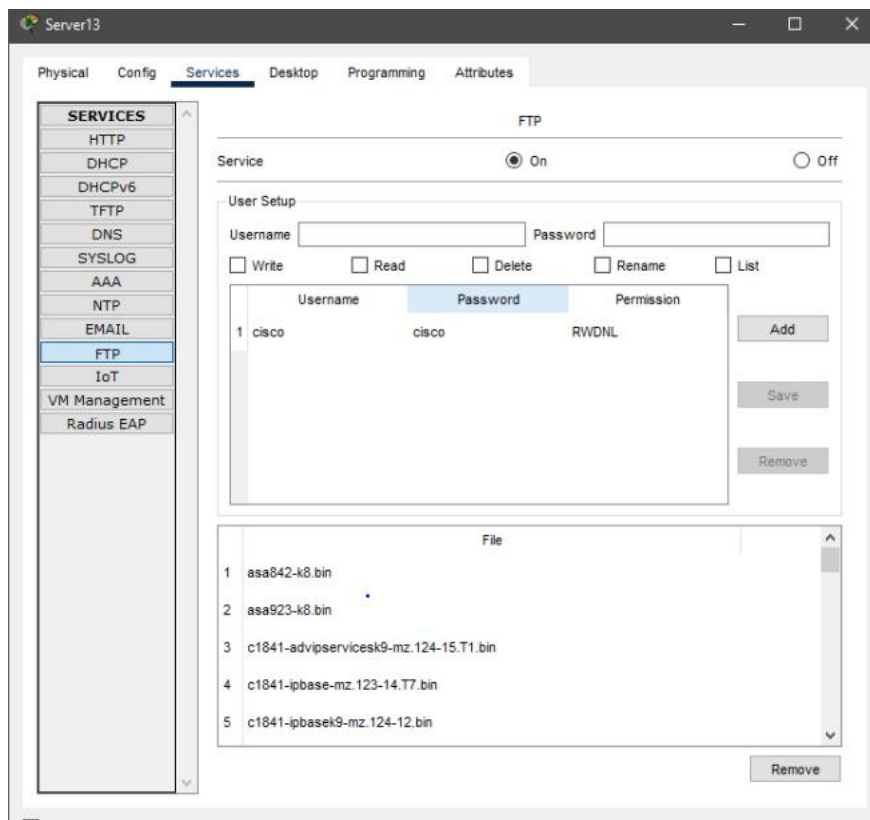
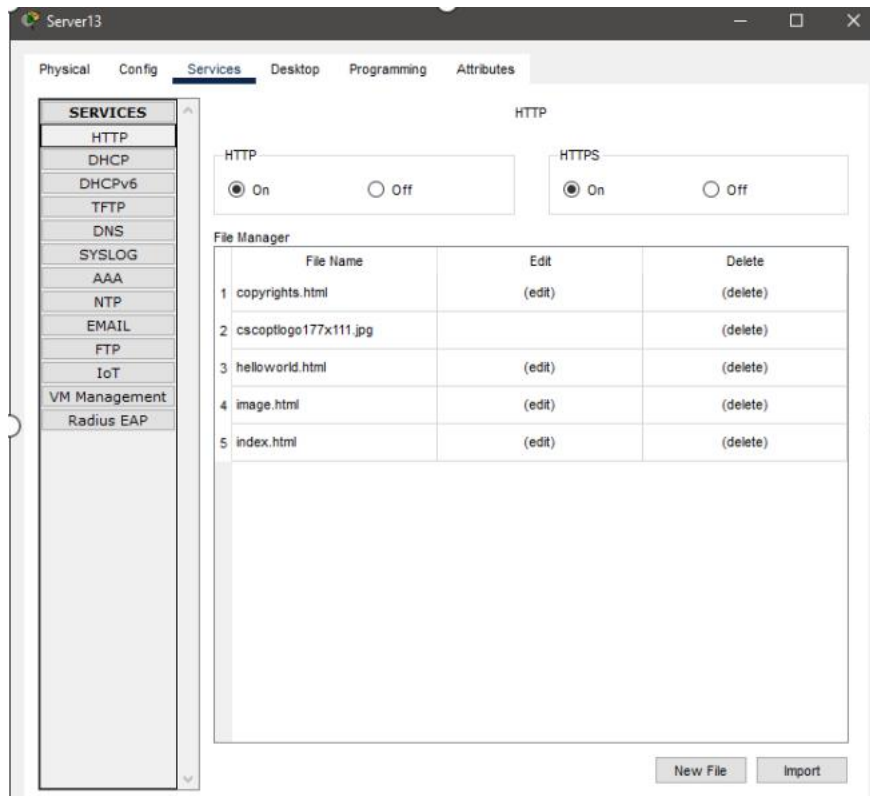
Network Diagram Details:

- 2911 Router: 192.168.1.1 (Gateway)
- 2960-24TT Switch15: 192.168.2.1
- 2960-24TT Switch17: 192.168.3.1
- PC-PT PC35: 192.168.1.4
- Laptop-PT Laptop10: 192.168.1.2
- Server-PT Server12: 192.168.1.2
- Server-PT Server13: 192.168.1.2
- Server-PT Server14: 192.168.1.6

Enable DNS service on DNS server and I have enable both http and ftp services on DNS server as I'm not rich enough to buy a new server for these services

The screenshot shows the configuration interface for Server13. The 'Services' tab is selected, and the 'DNS' section is expanded. The 'DNS Service' is set to 'On'. Below, the 'Resource Records' table is displayed, showing two records: 'dhcp' and 'mail.com', both of type 'A Record'.

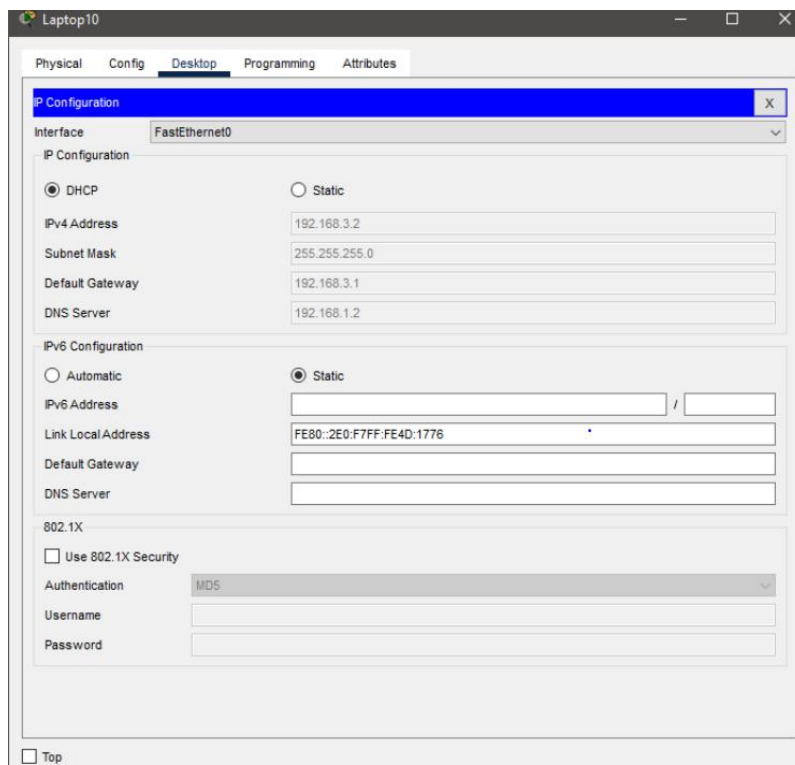
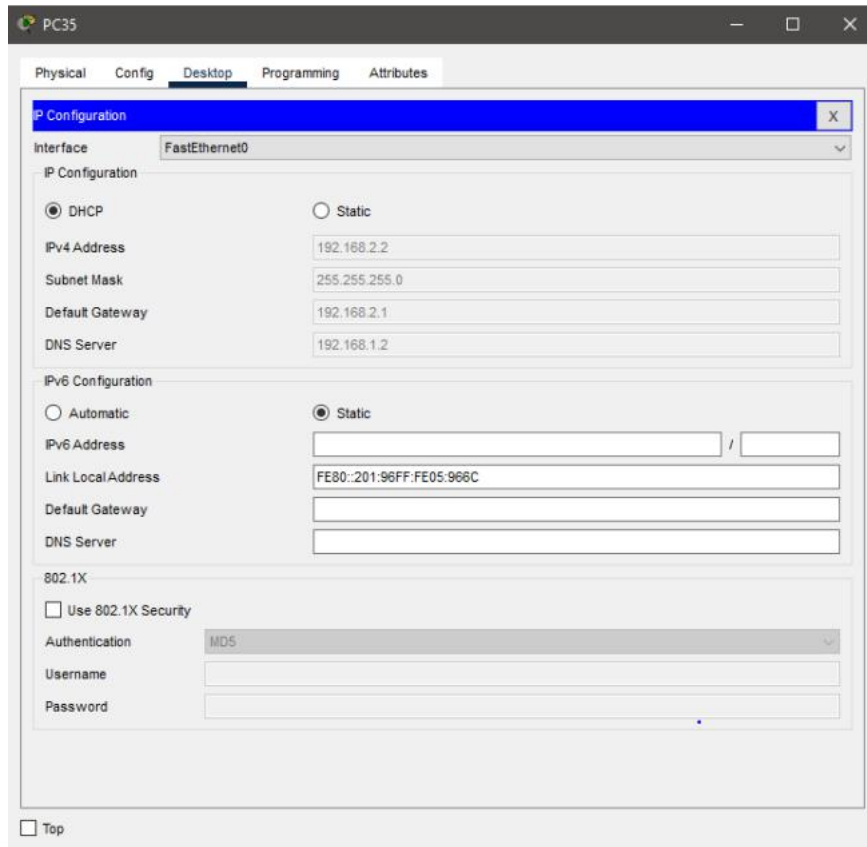
No.	Name	Type	Detail
0	dhcp	A Record	192.168.1.4
1	mail.com	A Record	192.168.1.6



In my case networks are 2: 192.168.2. 192.168.3.1

Now Adding helper id to access or send request out the network to dhcp servers to access ip

## Checking pc's that they have got ip's or not



Now we have to type mail so go to mail in pc and configure both users

PC35

Physical Config **Desktop** Programming Attributes

**Configure Mail** X

User Information

Your Name: pc1

Email Address: pc1@mail.com

Server Information

Incoming Mail Server: mail.com

Outgoing Mail Server: mail.com

Logon Information

User Name: pc1

Password: \*\*\*

Save Remove Clear Reset

☐ Top

Laptop10

Physical Config **Desktop** Programming Attributes

**Configure Mail** X

User Information

Your Name: pc2

Email Address: pc2@mail.com

Server Information

Incoming Mail Server: mail.com

Outgoing Mail Server: mail.com

Logon Information

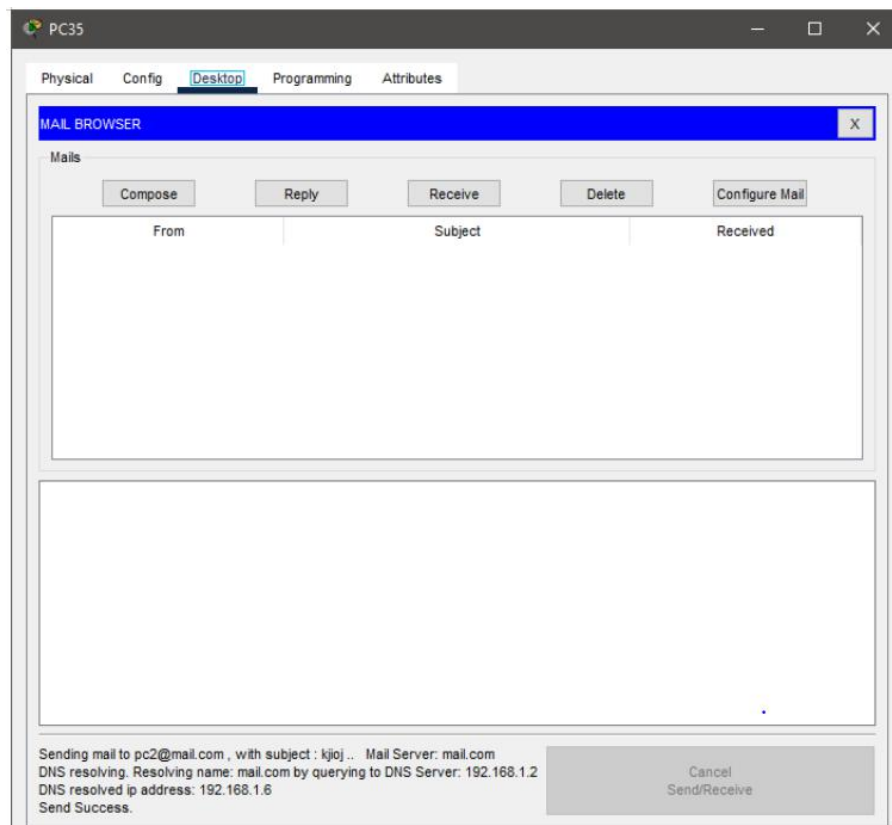
User Name: pc2

Password: \*\*\*

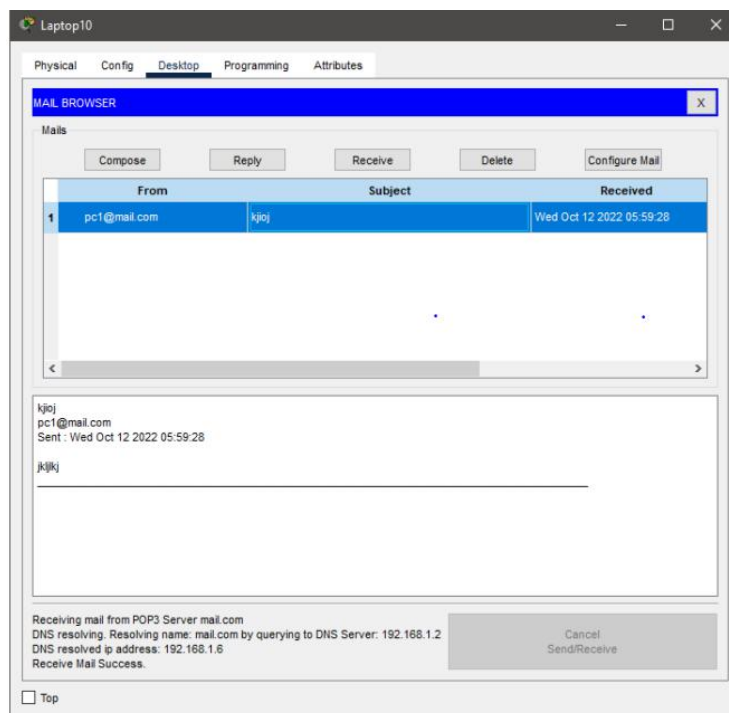
Save Remove Clear Reset

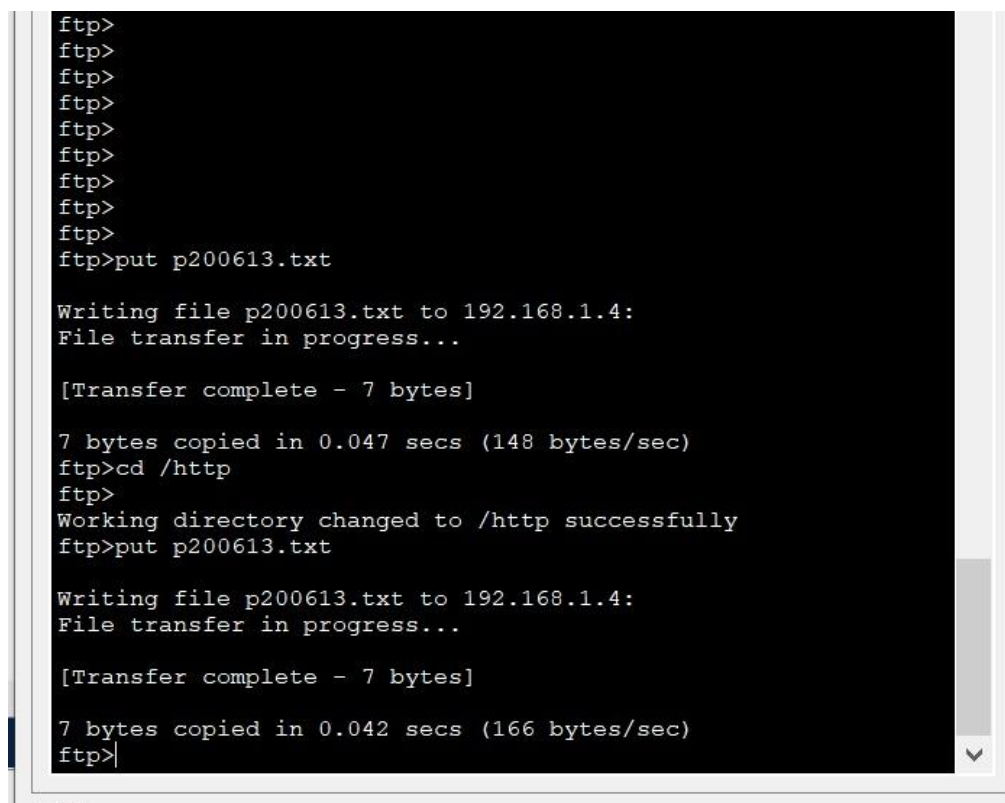
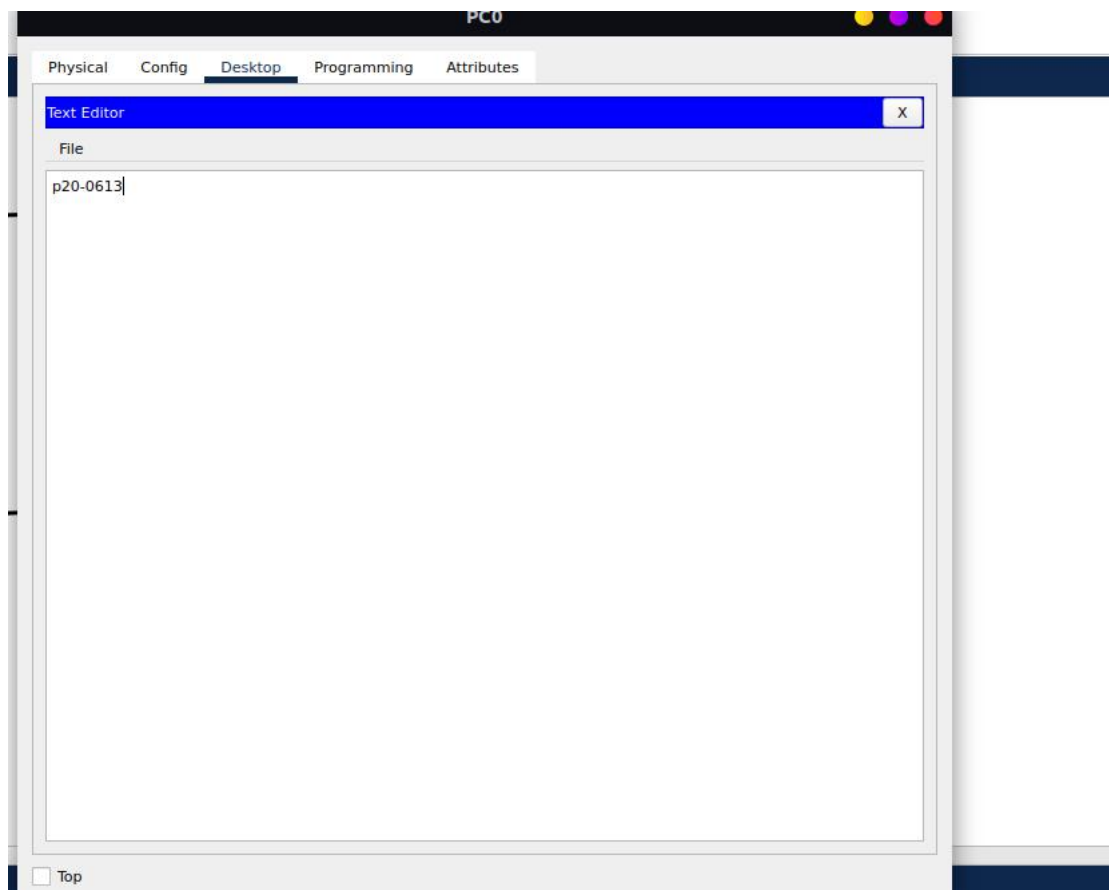


Sending mail from pc1 to pc2 by going to compose option



Check pc2 receive for inbox mails





**SERVICES**

HTTP

DHCP

DHCPv6

TFTP

DNS

SYSLOG

AAA

NTP

EMAIL

FTP

IoT

VM Management

Radius EAP

## HTTP

HTTP



On



Off

HTTPS



On



Off

## File Manager

	File Name	Edit	Delete
-			
3	flex.html	(edit)	(delete)
4	helloworld.html	(edit)	(delete)
5	image.html	(edit)	(delete)
6	index.html	(edit)	(delete)
7	p200162.txt	(edit)	(delete)
8	p200613.txt	(edit)	(delete)
9	task2.txt	(edit)	(delete)

New File

Import

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> <div>Save</div> <div>Remove</div>

File

34 p200613.txt

35 pt1000-i-mz.122-28.bin

Remove

PC35

Physical Config **Desktop** Programming Attributes

Web Browser

< > URL 

Go Stop

Cisco Packet Tracer

Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.

Quick Links:  
[A small page](#)  
[Copyrights](#)  
[Image page](#)  
[Image](#)  
[TEXT FILE](#)

☐ Top

