# Terna Engineering College

# **Computer Engineering Department**

Program: Sem V

Course: Computer Network Lab

Faculty: Umesh B Mantale, D V Thombre and Ramesh Shahabade

LAB Manual

### PART A

(PART A: TO BE REFERRED BY STUDENTS)

# Experiment No. 10

# A.1 Objective:

- A. Configure FTP Services on Servers
- B. Upload a File to the FTP Server
- C. Download a File from the FTP Server

### A.2 Prerequisite:

- → Knowledge about LAN, MAN and WAN and NW Elements.
- → Linux NW Commands
- → HW and IP Address concepts.
- → Concept of Port, Socket, Localhost, Client and Server,
- → Client and Server
- → Application Layer protocols and application servers
- → NW libraries.

### A.3 Outcome:

After successful completion of this experiment students will be able to -

- → Ability to configure FTP server
- → Ability to establish connection with server
- → Ability to upload a file on the FTP server
- → Ability to Download the File from FTP server

### PART B

# (PART B: TO BE COMPLETED BY STUDENTS)

(Students must submit the soft copy as per following segments within two hours of the practical. The soft copy must be uploaded on the Blackboard or emailed to the concerned lab in charge faculties at the end of the practical in case the there is no Blackboard access available)

Roll No. 50	Name: Amey Thakur
Class: TE-Comps B	Batch: B3
Date of Experiment: 20/10/2020	Date of Submission: 20/10/2020
Grade :	

### B.1 Document created by the student:

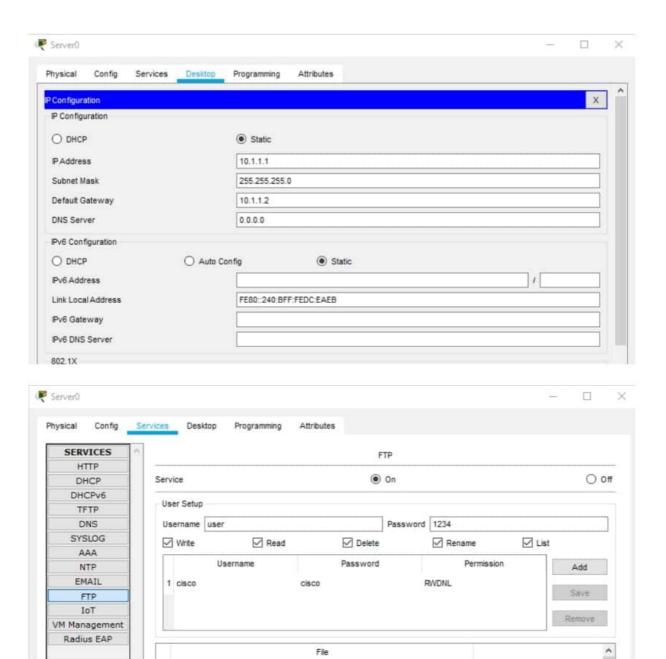
(Write the answers to the questions given in section 5.1 during the 2 hours of practice in the lab here)

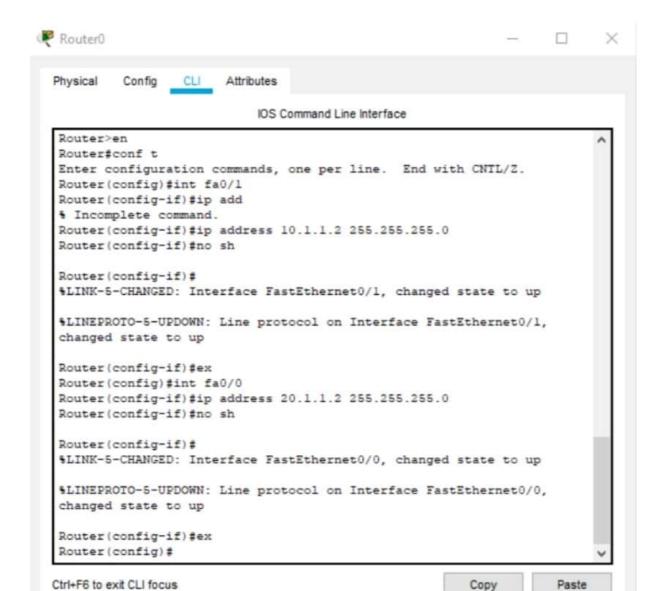
Refer B.5

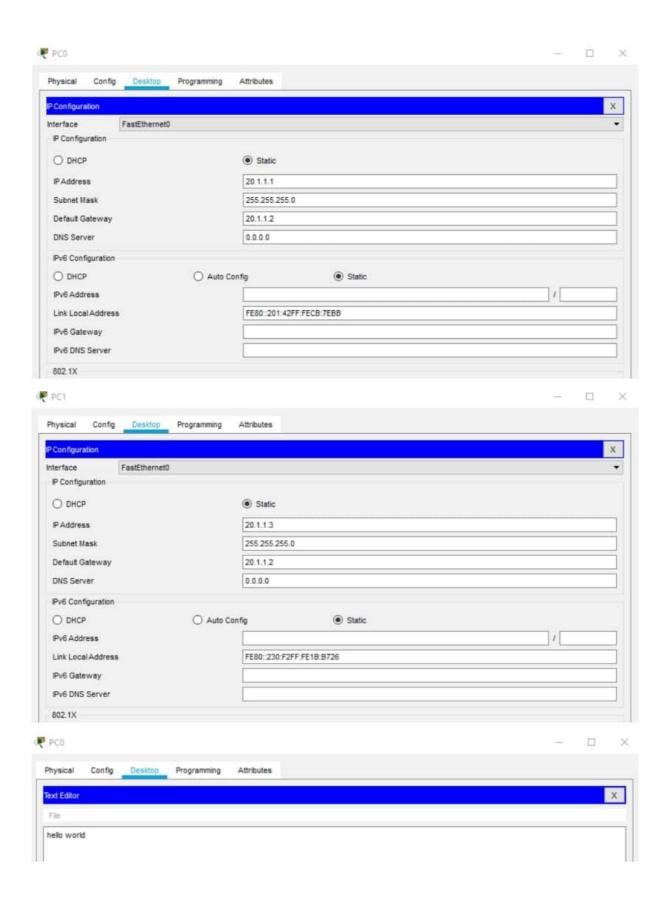
# **B.3 Observations and learning:**

(Students are expected to understand the selected topic. Have to list out the components & functionality. Prepare a flow of the algorithm defined in the paper. List the performance metrics that are used)

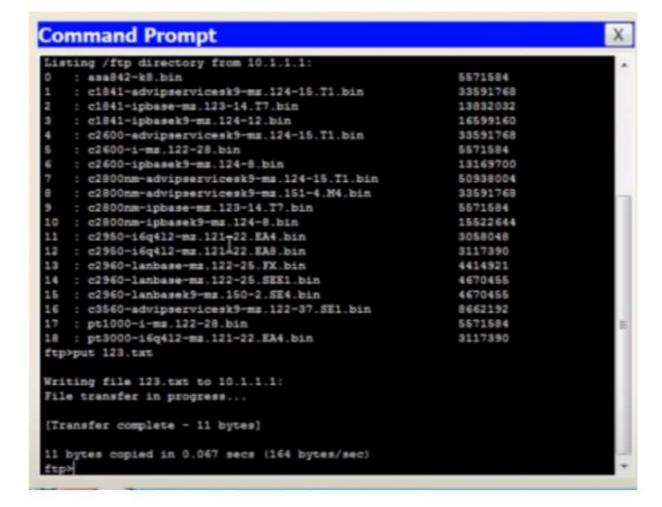


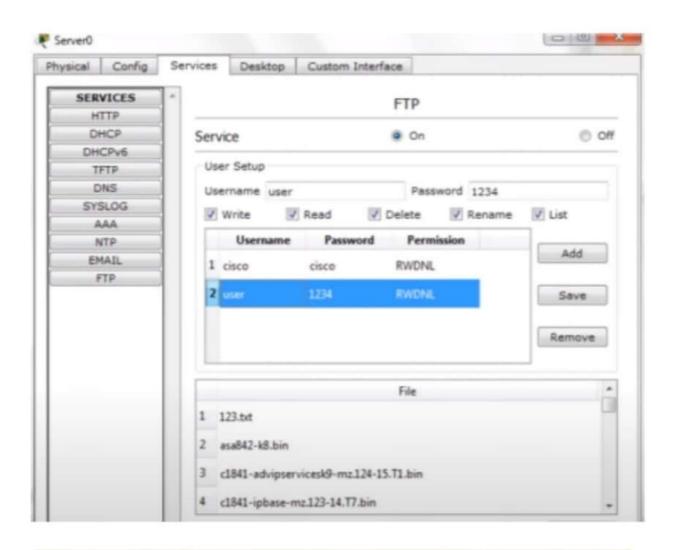






```
Packet Tracer PC Command Line 1.0
PC>ftp 10.1.1.1
Trying to connect...10.1.1.1
Connected to 10.1.1.1
220- Welcome to PT Ftp server
Username:user
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>
```





# Packet Tracer PC Command Line 1.0 PC>ftp 10.1.1.1 Trying to connect...10.1.1.1 Connected to 10.1.1.1 220- Welcome to PT Ftp server Username:user 331- Username ok, need password Password: 230- Logged in (passive mode On) ftp>dir

```
Command Prompt
      123.txt
    : asa842-k8.bin
                                                         5571584
    : c1841-advipservicesk9-mz.124-15.T1.bin
                                                         33591768
    : c1841-ipbase-mg.123-14.T7.bin
                                                         13832032
    : c1841-ipbasek9-mz.124-12.bin
    : c2600-advipservicesk9-mz.124-15.T1.bin
                                                         33591768
    : c2600-i-mg.122-28.bin
                                                         5571584
    : c2600-ipbasek9-mz.124-8.bin
                                                         13169700
    : c2800nm-advipservicesk9-mz.124-15.T1.bin
    : c2800nm-advipservicesk9-mz.151-4.M4.bin
    : c2800nm-ipbase-mz.123-14.T7.bin
                                                         5571584
    : c2800nm-ipbasek9-mz.124-8.bin
                                                         15522644
12
    : c2950-i6q412-mz.121-22.EA4.bin
                                                         3058048
13
    : c2950-16q412-mz.121-22.EA8.bin
                                                         3117390
14 : c2960-lanbase-mz.122-25.FX.bin
                                                         4414921
15 : c2960-lanbase-mz.122-25.SEE1.bin
                                                         4670455
16 : c2960-lanbasek9-mz.150-2.SE4.bin
                                                         4670455
   : c3560-advipservicesk9-mz.122-37.SE1.bin
17
                                                         8662192
18 : pt1000-i-mz.122-28.bin
                                                         5571584
19 : pt3000-i6q412-mr.121-22.EA4.bin
                                                         3117390
ftp>get 123.txt
Reading file 123.txt from 10.1.1.1:
File transfer in progress...
 [Transfer complete - 11 bytes]
 11 bytes copied in 0.012 secs (916 bytes/sec)
```

### **B.4 Conclusion:**

(Students must write the conclusion as per the attainment of individual outcome listed above and learning/observation noted in section B.3)

After the successful completion of this experiment, we have learned how to

Configure FTP Services on Servers, upload a File to the FTP Server and

Download a File from the FTP Server.

# **B.5 Question of Curiosity**

(To be answered by the student based on the practical performed and learning/observations)

### Questions to answer:

- 1. Write the different protocols used in the Application layer.
- 2. What are the ports used for FTP?
- 3. Examples of FTP applications?
- 4. Which transport layer protocol is used by FTP? Give reason
- 5. What are DNS, TELNET, DHCP and HTTP protocols?
- 6. What is SMTP? Where this protocol is used?

	Q.I. Write the different protocols used in Application layer
	Ansi
	- Telnet was the same and and
	2 FTP
	(3) TETP MAN AND MAN A
	4 NFS
	SMTP INTERIOR
	© LPD
	3 × Window
	8 SNMP
	ONSTAND DONE TO THE STANDARD OF THE STANDARD O
1	(1) DHCP
	en registration to the second of set of the second second
	Q.2. What are the ports used for FTP?
	Ans:
	- The FTP typically uses port 21 as its main means
	of communication, samuel )
	I as develope count ordered green country the
_	Q.3. Examples of FTP application
	Ans: orderanno vide brancole in del
_	- O Transmite do one comme due
	@ Cyberduck
	21 3 refilezilla sonow 9 41 MZ 17 dodiN 201
	@ Win SCP
100	aver & Codar was signed for stones the
1675	with record to the last way work of T
11	Q.4. Which transport layer protocol is used by F1PS
-	Give reason.
100	And house similar florings for hirelan
	- FTP ;tself uses the TCP transport protocol.
+	- FTP uses and relies on TCP to ensure all the packets
0	of data are sent correctly and to proper destination

Q.S. What are DNS, TELNET, DHCP and HTTP protocols
Anes
1 DNS: (Domain Name System)
- A DN's Service must translate the name into
the corresponding IP address.
@ TELNET: (Telecommunication Network)
- It allows the TELNET client to access the
resources of the telnet server.
- It is used for managing the files on the
internet.
active (a)
3) DHCP: (Dynamic Host Configuration Protocol)
- It is a network management protocol used to
automate the process of configuring devices
on IP networks they allowing then to use
network services.
10 40 60 12 11 4 2500 William 19 4 3 14 -
(A) HTTP: (Hypertext Transfer Pootocol)
- It is an application layer protocol for transmitting
hypermedia documents such as HTML.
- It was designed for communication between
web browsers and web servers.
alorbiadi O
Q.6. What is smip? where this protocol is used &
Ans:
- It stands for Simple Mail Transfer Protocol.
- It moves your email on and across networks
- SMTP ECENTER COMMONLY THE THE TIP AND A DIT
- SMTP servery commonly use the TCP on post 25.
- It is used for sending message to mail server for
the mall semen
get the mather servers of you was sound to be and the
The state of the s