Worksheet-3.1

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Subject Code: 21CSH-256

Semester: 4th

1. Aim: Sharing of resources with two connected nodes. Understanding FTP.

2. Software required: Cisco Packet Tracer.

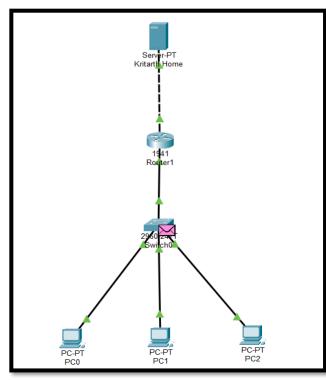
Procedure: -

- Attach PC, 1941 router & Server-PT in the packet tracer software.
- Use copper cross-over wires to connect router to router.
- Connect all the end devices to each other.
- Assign IP address to devices, Configure router as Network address
- Add text in text editor.
- Provide same Gateway IP to all the pc's.
- Use command prompt for sending and downloading file.
- Go to Simulation mode and click capture/Play.

Theory: -

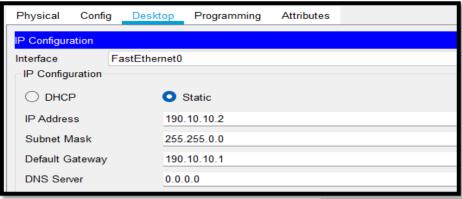
A). File Transfer Protocol (FTP): File Transfer Protocol (FTP) is an application layer protocol that moves files between local and remote file systems. It runs on top of TCP, like HTTP. To transfer a file, 2 TCP connections are used by FTP in parallel: control connection and data connection.

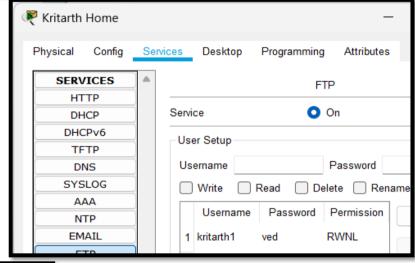
Input Screenshot:

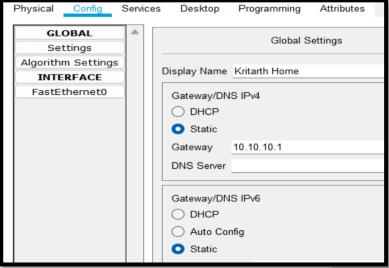


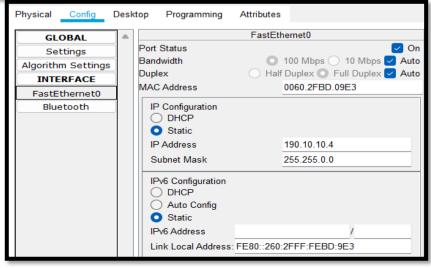


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```
Physical
         Config
                 Desktop
                          Programming
                                       Attributes
Command Prompt
C:\>ping 10.10.10.2
Pinging 10.10.10.2 with 32 bytes of data:
Request timed out.
Reply from 10.10.10.2: bytes=32 time=1ms TTL=127
Reply from 10.10.10.2: bytes=32 time=1ms TTL=127
Reply from 10.10.10.2: bytes=32 time=1ms TTL=127
Ping statistics for 10.10.10.2:
     Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = lms, Maximum = lms, Average = lms
```

```
C:\>ftp 10.10.10.2

Trying to connect...10.10.10.2

Connected to 10.10.10.2

220- Welcome to PT Ftp server

Username:kritarthl

331- Username ok, need password

Password:

230- Logged in

(passive mode On)

ftp>put hello.txt

Writing file hello.txt to 10.10.10.2:

File transfer in progress...

[Transfer complete - 44 bytes]

44 bytes copied in 0.022 secs (2000 bytes/sec)

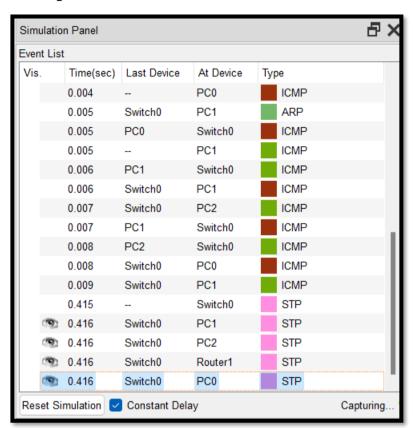
ftp>
```

```
Command Prompt
```

```
Packet Tracer PC Command Line 1.0
C:\>ftp 10.10.10.2
Trying to connect...10.10.10.2
Connected to 10.10.10.2
220- Welcome to PT Ftp server
Username: kritarthl
331- Username ok, need password
Password:
230- Logged in
(passive mode On)
ftp>get hello.txt
Reading file hello.txt from 10.10.10.2:
File transfer in progress...
[Transfer complete - 44 bytes]
44 bytes copied in 0.009 secs (4888 bytes/sec)
ftp>
```



Output Screenshot:





Learning Outcomes:

- 1. In this practical, I have learned the basic concepts of File Transfer Protocol (FTP)
- 2. I have learned how to implement the FTP.
- 3. Learnt how FTP work in real world scenario and how to send and download the files.