



Experiment 8

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Subject Name: Computer Networks

Subject Code: 22CSH-312

1. Aim: Sharing of resources with two connected nodes with understanding of FTP Connecting Devices, Configuring Server IP address.

2. Objective:

- To establish resource sharing between two connected nodes using FTP in Packet Tracer, while understanding how to configure server IP addresses.

3. Requirements:

- Packet Tracer.
- Server
- Router
- Switch
- Wire

4. Procedure:

- Place two PCs, one server, and one router in Packet Tracer.
- Connect devices to the switch, router, server in packet tracer.
- Assign IP addresses to each device.
- Click on the server, navigate to the "Services" tab, and enable the FTP service.
- Create a user account with a username and password for FTP access.
- On both PCs, open the command prompt and ping the server.
- Access the FTP service by opening the command prompt on PC1.
- Type ftp and log in using the created credentials.

- Use put filename.txt to upload a file from PC1 to the server.
- Use get filename.txt to download a file from the server to PC1.
- PC2 can also connect to the FTP server in the same way to upload or download files.

5. Output:

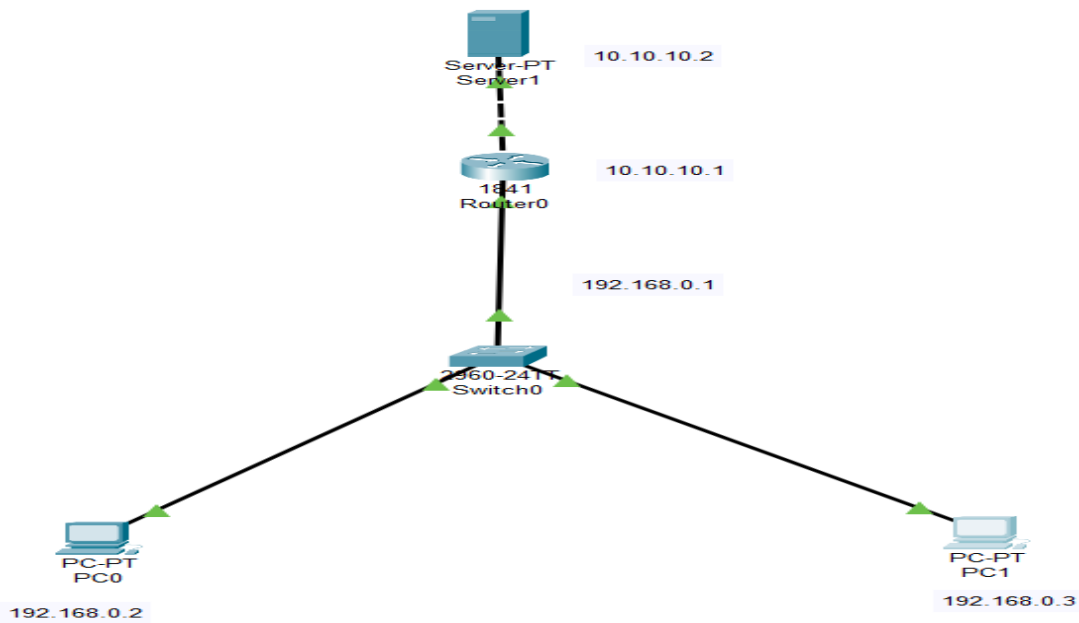


Fig 1: Connections of system

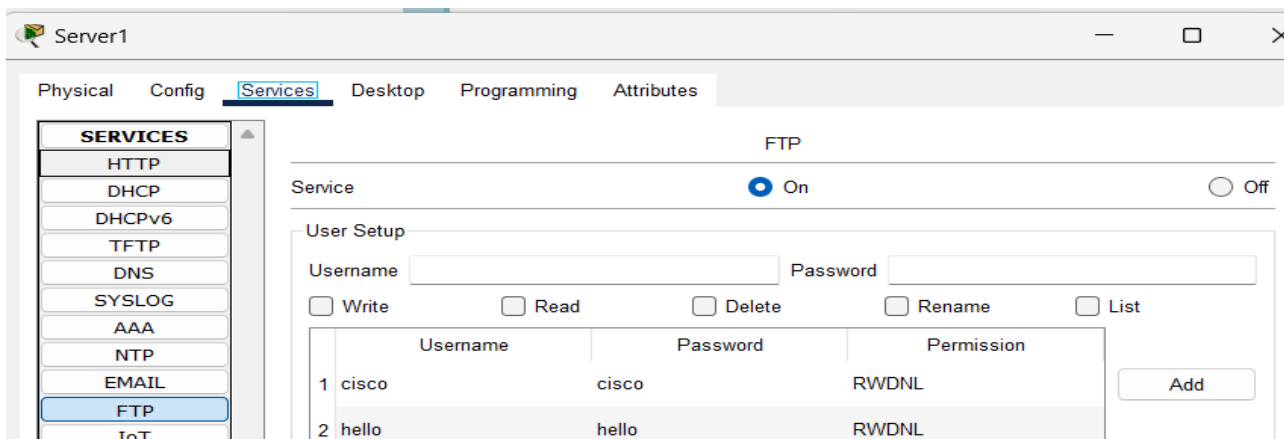


Fig 2: creating username and password

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ping 10.10.10.2
Pinging 10.10.10.2 with 32 bytes of data:
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
Reply from 10.10.10.2: bytes=32 time<1ms TTL=127

Ping statistics for 10.10.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ftp
Cisco Packet Tracer PC Ftp
Usage: ftp target

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:cisco
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 - 5 bytes]
5 bytes copied in 0.084 secs (59 bytes/sec)
ftp>dir
 13 : c2900-universalk9-mz.SPA.155-3.M4a.bin          33591768
 14 : c2950-i6q412-mz.121-22.EA4.bin                3058048
 15 : c2950-i6q412-mz.121-22.EA6.bin                3117360
 16 : c2960-lanbase-mz.122-25.FX.bin                 4414921
 17 : c2960-lanbase-mz.122-25.SEE1.bin               4670455
 18 : c2960-lanbasek9-mz.150-2.SE4.bin               4670455
 19 : c3560-advipservicesk9-mz.122-37.3E1.bin       8662192
 20 : c3560-advipservicesk9-mz.122-46.3E1.bin       10713279
 21 : c800-universalk9-mz.SPA.152-4.M4.bin           33591768
 22 : c800-universalk9-mz.SPA.154-3.M6a.bin          83029236
 23 : cat3k_caa-universalk9.16.03.02.SPA.bin         505532849
 24 : cgr1000-universalk9-mz.SPA.154-2.CG            159487552
 25 : cgr1000-universalk9-mz.SPA.156-3.CG            184530138
 26 : hello.txt                                       5

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Fig 3: put text file

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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:cisco
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 - 5 bytes]
5 bytes copied in 0 secs
ftp>

```

Fig 4: get text file

5. Learning Outcomes:

- Gain hands-on experience in configuring devices (PCs, server, router) within a network.
- Learn how to assign and manage static IP addresses within a subnet.
- Understand the File Transfer Protocol (FTP) and its role in resource sharing.
- Develop skills in uploading and downloading files using FTP commands.
- Enhance the ability to troubleshoot connectivity issues using tools like ping.