



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

Experiment 8

Student Name: Zatch

UID:

Branch: BE-CSE

Section/Group:

Semester: 5th

Date of Performance:

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:

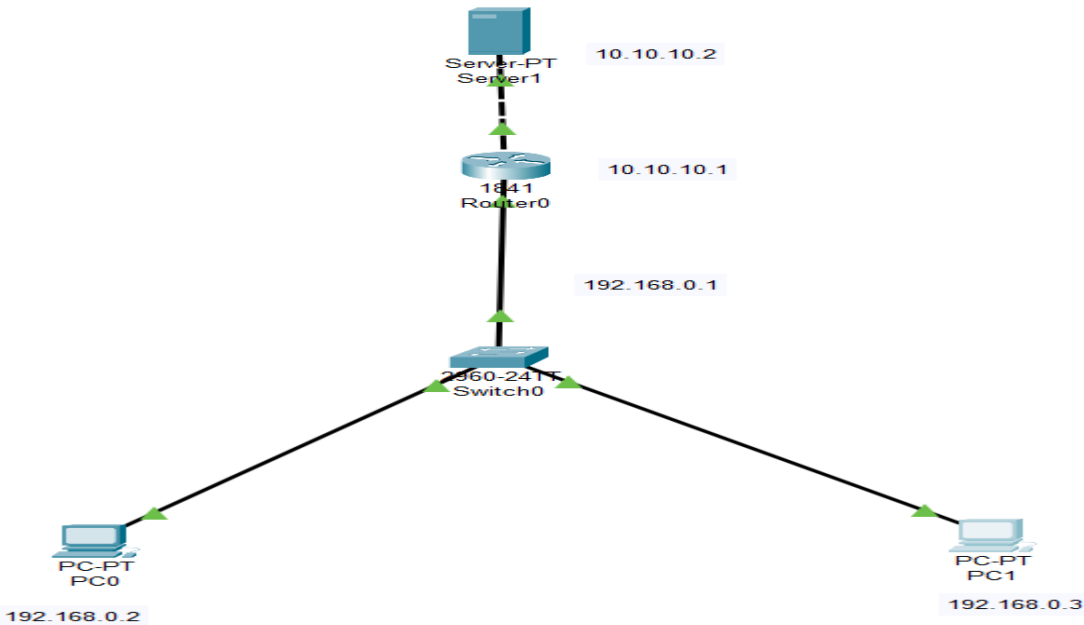


Fig 1: Connections of system

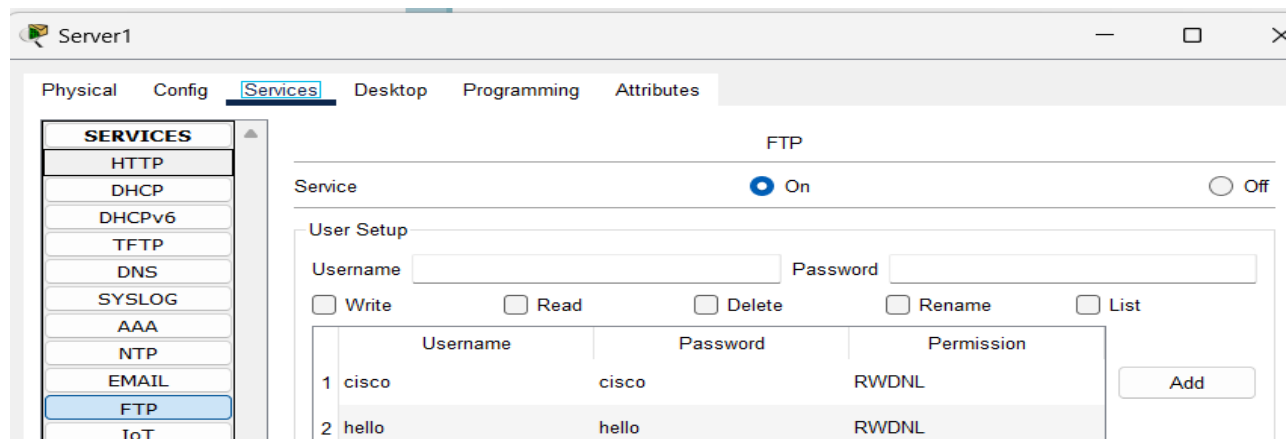


Fig 2: creating username and password

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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 FT 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-i6q4l2-mz.121-22.EA4.bin                3058048
15 : c2950-i6q4l2-mz.121-22.EA8.bin                3117390
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.SE1.bin        8662192
20 : c3560-advipservicesk9-mz.122-46.SE1.bin        10713279
21 : c800-universalk9-mz.SPA.152-4.M4a.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

```

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 FT 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.



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