

Q. Demonstrate FTP Server in Packet Tracer.

Aim: To configure an FTP server and test file transfer between server and clients in the network.

Devices Needed:

1 Server (FTP Server)

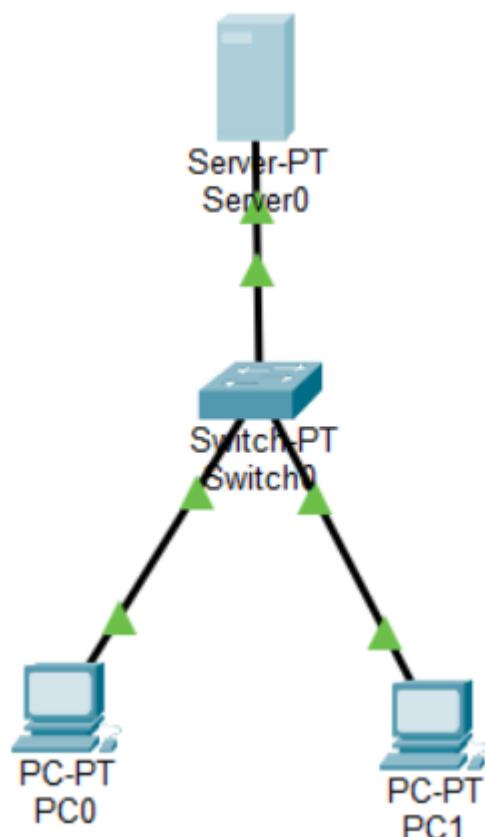
1 Switch

2 PCs (FTP Clients)

Connection :

Connect all devices to the switch using copper straight-through cables

Topology:



Code:

Server Configuration (FTP):

1.Click on Server → Services tab → FTP

2.FTP Server Settings:

oFTP Service: ON

3.Add User Account:

oUsername: admin

oPassword: cisco

oCheck all permissions: Read/Write/List/Delete/Rename

oClick Add

Server IP Configuration:

IP Address: 192.168.1.5

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

PC1 Configuration:

IP Address: 192.168.1.10

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

PC2 Configuration:

IP Address: 192.168.1.11

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

Create Test File on PC1

1.Click on PC1 → Desktop tab → Text Editor

2.Type: This is a test file for FTP transfer

3.Save as: upload\_test.txt

Verification: In PC Command Prompt

PC1 FTP Commands:

C:\>ftp 192.168.1.5

Username: admin

Password: cisco

ftp> dir

ftp> put upload\_test.txt

ftp> dir

ftp> get welcome.txt

ftp> delete notes.txt

ftp> quit

PC2 FTP Commands:

C:\>ftp 192.168.1.5

Username: admin

Password: cisco

ftp> dir

ftp> get upload\_test.txt

ftp> rename upload\_test.txt downloaded\_file.txt

ftp> dir

ftp> quit

Ping Test (Both PCs):

C:\>ping 192.168.1.5

PC1 FTP Session:

Output:

```
C:\>ftp 192.168.1.5
Trying to connect...192.168.1.5
Connected to 192.168.1.5
220- Welcome to PT Ftp server
Username:admin
331- Username ok, need password
Password:*****
230- Logged in
(passive mode On)
ftp>dir
```

33	:	notes_text.txt	24
34	:	pt1000-i-mz.122-28.bin	5571584
35	:	pt3000-i6q4l2-mz.121-22.EA4.bin	3117390
36	:	upload_text.txt	37
37	:	welcome_text.txt	26

```
ftp>put upload_text.txt

Writing file upload_text.txt to 192.168.1.5:
File transfer in progress...

[Transfer complete - 36 bytes]

36 bytes copied in 0.021 secs (1714 bytes/sec)
ftp>put welcome_text.txt
```

```
ftp>dir

Listing /ftp directory from 192.168.1.5:
0   : asa842-k8.bin                               5571584
1   : asa923-k8.bin                               30468096
2   : c1841-advipsericesk9-mz.124-15.T1.bin     33591768
3   : c1841-ipbase-mz.123-14.T7.bin              13832032
4   : c1841-ipbasek9-mz.124-12.bin               16599160
5   : c1900-universalk9-mz.SPA.155-3.M4a.bin    33591768
6   : c2600-advipsericesk9-mz.124-15.T1.bin     33591768
7   : c2600-i-mz.122-28.bin                      5571584
8   : c2600-ipbasek9-mz.124-8.bin                13169700
9   : c2800nm-advipsericesk9-mz.124-15.T1.bin   50938004
10  : c2800nm-advipsericesk9-mz.151-4.M4.bin   33591768
11  : c2800nm-ipbase-mz.123-14.T7.bin          5571584
12  : c2800nm-ipbasek9-mz.124-8.bin            15522644
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-advipsericesk9-mz.122-37.SE1.bin   8662192
20  : c3560-advipsericesk9-mz.122-46.SE.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  : ie9k_iosxe.17.09.04.SPA.bin              596133776
27  : ir800-universalk9-bundle.SPA.156-3.M.bin 160968869
28  : ir800-universalk9-mz.SPA.155-3.M        61750062
29  : ir800-universalk9-mz.SPA.156-3.M        63753767
30  : ir800_yocto-1.7.2.tar                   2877440
31  : ir800_yocto-1.7.2_python-2.7.3.tar     6912000
32  : ir8340-mono-universalk9_iot.17.08.01a.SPA.pkg 685645824
33  : notes_text.txt                          24
34  : pt1000-i-mz.122-28.bin                 5571584
35  : pt3000-i6q4l2-mz.121-22.EA4.bin       3117390
36  : upload_text.txt                        36
37  : welcome.txt                           25
38  : welcome_text.txt                      26
```

```
ftp>get welcome.txt

Reading file welcome.txt from 192.168.1.5:
File transfer in progress...

[Transfer complete - 25 bytes]

25 bytes copied in 0 secs
```

```
ftp>delete notes.txt  
Deleting file notes.txt from 192.168.1.5: ftp>  
[Deleted file notes.txt successfully ]
```

```
ftp>quit  
221- Service closing control connection.
```

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Ping Test Results:

```
C:\>ping 192.168.1.5  
  
Pinging 192.168.1.5 with 32 bytes of data:  
  
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128  
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128  
Reply from 192.168.1.5: bytes=32 time=1ms TTL=128  
Reply from 192.168.1.5: bytes=32 time<1ms TTL=128  
  
Ping statistics for 192.168.1.5:  
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
    Approximate round trip times in milli-seconds:  
        Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

PC2 FTP Session:

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```
C:\>ftp 192.168.1.5
Trying to connect...192.168.1.5
Connected to 192.168.1.5
220- Welcome to PT Ftp server
Username:admin
331- Username ok, need password
Password:*****
230- Logged in
(passive mode On)
ftp>dir
```

Listing /ftp directory from 192.168.1.5:

31 : ir800_yocto-1.7.2_python-2.7.3.tar	6912000
32 : ir8340-mono-universalk9_iot.17.08.01a.SPA.pkg	685645824
33 : notes_text.txt	24
34 : pt1000-i-mz.122-28.bin	5571584
35 : pt3000-i6q4l2-mz.121-22.EA4.bin	3117390
36 : upload_text.txt	36
37 : welcome.txt	25
38 : welcome_text.txt	26

```
ftp>get upload_text.txt
Reading file upload_text.txt from 192.168.1.5:
File transfer in progress...
[Transfer complete - 37 bytes]
37 bytes copied in 0 secs
```

```
ftp>rename upload_text.txt downloaded_text.txt
Renaming upload_text.txt
ftp>
[OK Renamed file successfully from upload_text.txt to downloaded_text.txt]
```

```
ftp>dir
Listing /ftp directory from 192.168.1.5:
0   : asa842-k8.bin                               5571584
1   : asa923-k8.bin                               30468096
2   : c1841-advp�servicesk9-mz.124-15.T1.bin    33591768
3   : c1841-ipbase-mz.123-14.T7.bin              13832032
```

25 : cgr1000-universalk9-mz.SPA.156-3.CG	184530138
26 : downloaded_text.txt	37
27 : ie9k_iosxe.17.09.04.SPA.bin	596133776
28 : ir800-universalk9-bundle.SPA.156-3.M.bin	160968869
29 : ir800-universalk9-mz.SPA.155-3.M	61750062
30 : ir800-universalk9-mz.SPA.156-3.M	63753767
31 : ir800_yocto-1.7.2.tar	2877440
32 : ir800_yocto-1.7.2_python-2.7.3.tar	6912000
33 : ir8340-mono-universalk9_iot.17.08.01a.SPA.pkg	685645824
34 : notes_text.txt	24
35 : pt1000-i-mz.122-28.bin	5571584
36 : pt3000-i6q4l2-mz.121-22.EA4.bin	3117390
37 : welcome.txt	25
38 : welcome_text.txt	26

```
ftp>quit
221- Service closing control connection.
```

#### Ping Test Results:

```
C:\>ping 192.168.1.5

Pinging 192.168.1.5 with 32 bytes of data:

Reply from 192.168.1.5: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

Conclusion: The FTP server has been configured successfully

