





What is our GOAL for this MODULE?

The goal of this module is to learn to create a file transfer server and client in cisco packet tracer and some basic troubleshooting.

What did we ACHIEVE in the class TODAY?

We learned create a file transfer server and client in cisco packet tracer

Which CONCEPTS/CODING BLOCKS did we cover today?

- We learned to create FTP server and client
- We learned FTP commands
- We learned basic troubleshooting.



The KEY CONCEPT

1. What is a server?

Server is used to store the files so that multiple users can access these files. Servers can be local such as a home server where only you and your family members can use that. But we can have an online server where anyone on the internet can connect and access the data, such as facebook server.



2. What is ftp?

File transfer protocol (FTP) is a set of rules that computers follow for the transferring of files from one system to another over the internet. It may be used by a business to transfer files from one computer system to another, or websites may use FTP to upload or download files from a website's server.

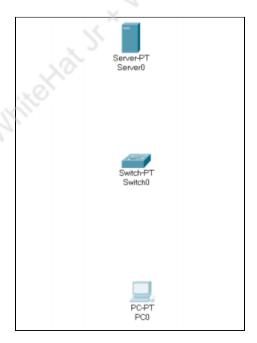


How did we DO the activities?

- 1. Devices needed to create a server in CPT(Cisco Packet Tracer). We need 3 components.
 - Server
 - Switch
 - Client
- 2. Drag and drop the server on the canvas



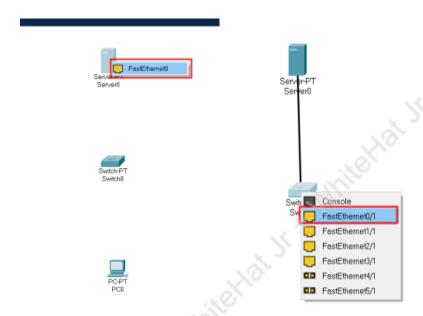
3. Drag and drop a switch and computer on the canvas



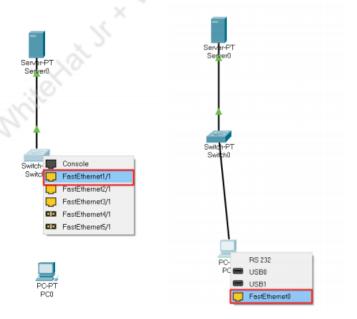


- 4. Use copper straight through cable to connect all 3 devices.
 - Connecting server and the switch.

Select the copper straight through cable and click on the server and select the fastethernet port then click on the Switch and select the fast ethernet port.



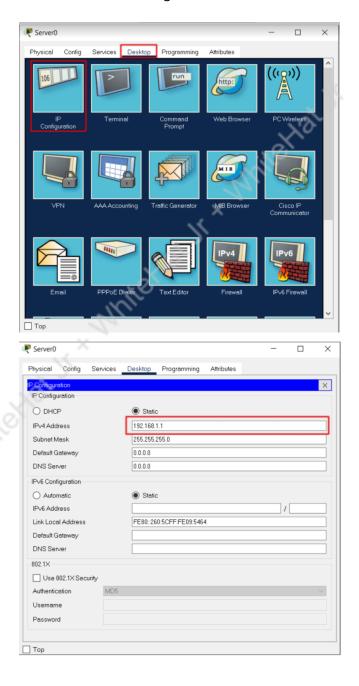
• Connect the switch with the computer.





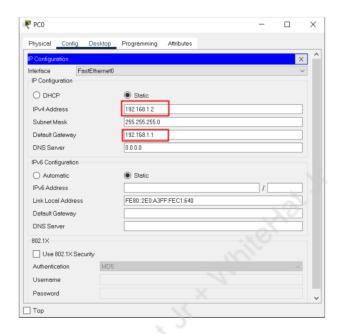
5. Test the connection

- Assign IP address to Computer and server.
 - Assign the IP address to the Server.: 192.168.1.1
 - Click on the server and select the Desktop tab and then
 - Click on the IP configuration button.



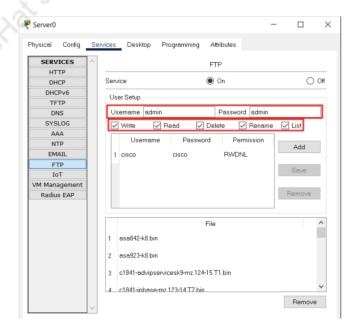


• Double click on the computer and go to the desktop and select IP configuration.

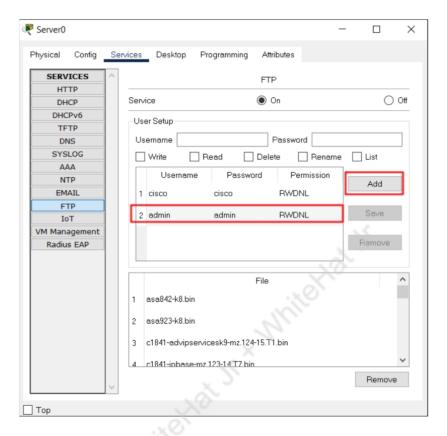


• Creating user and password for the server.

Double click on the server and select the services tab. On the left hand menu click on the FTP, set username and password and give access

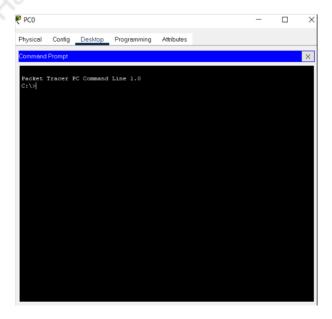






User is added successfully.

- Run FTP commands
 - Login to the server.





- Run the command as ftp 192.168.1.1
- Now the computer will ask for the username, so write the username as admin.
- Then it will ask for the password.
- Press enter

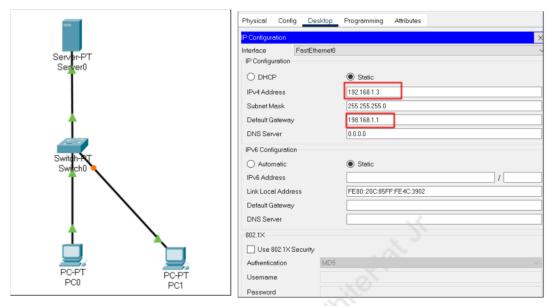


6. Type ftp help to get the list of commands

```
ftp>help
?
cd
delete
dir
get
help
passive
put
pwd
quit
rename
ftp>
```

7. Create more than one client, assign ip and repeat the process as done with the other client.





8. Run different ftp commands:

Ftp dir: to list all the directories

```
Physical
          Config Desktop
                            Programming
                                           Attributes
 ommand Prompt
 Packet Tracer PC Command Line 1.0
C:\>ftp 192.168.1.1
Trying to connect...192.168.1.1
 Connected to 192.168.1.1
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 192.168.1.1:
    : asa842-k8.bin
                                                              5571584
     : asa923-k8.bin
                                                              30468096
     : c1841-advipservicesk9-mz.124-15.T1.bin
                                                              33591768
     : c1841-ipbase-mz.123-14.T7.bin
                                                              13832032
     : c1841-ipbasek9-mz.124-12.bin
                                                              16599160
     : c1900-universalk9-mz.SPA.155-3.M4a.bin
                                                              33591768
     : c2600-advipservicesk9-mz.124-15.T1.bin
                                                              33591768
     : c2600-i-mz.122-28.bin
                                                              5571584
     : c2600-ipbasek9-mz.124-8.bin
                                                              13169700
     : c2800nm-advipservicesk9-mz.124-15.Tl.bin
                                                              50938004
     : c2800nm-advipservicesk9-mz.151-4.M4.bin
                                                              33591768
                                                              5571584
     : c2800nm-ipbase-mz.123-14.T7.bin
     : c2800nm-ipbasek9-mz.124-8.bin
                                                              15522644
13
     : c2900-universalk9-mz.SPA.155-3.M4a.bin
                                                              33591768
      c2950-i6q412-mz.121-22.EA4.bin
                                                              3058048
       c2950-i6q412-mz.121-22.EA8.bin
                                                              3117390
       c2960-lanbase-mz.122-25.FX.bin
                                                               4414921
```



• Ftp get: to copy a file

```
ftp>get asa842-k8.bin

Reading file asa842-k8.bin from 192.168.1.1:
File transfer in progress...

[Transfer complete - 5571584 bytes]

5571584 bytes copied in 37.413 secs (34122 bytes/sec)
ftp>
```

• Ftp rename: to rename a file

```
ftp>rename asa923-k8.bin test.bin

Renaming asa923-k8.bin

ftp>
[OK Renamed file successfully from asa923-k8.bin to test.bin]

ftp>
```

```
27 : ir800_yocto-1.7.2.tar

28 : ir800_yocto-1.7.2_python-2.7.3.tar

29 : pt1000-i-mz.122-28.bin

30 : pt3000-i6q412-mz.121-22.EA4.bin

31 : test.bin

ftp>
```

• Ftp quit: to exit from the server

```
ftp>quit

221- Service closing control connection.
C:\>
```

We have learnt how to configure the Server and client. We also used FTP commands to manipulate the files on the server.

What's NEXT?

In the next class we are going to create a software server using the socket library of python.

EXTEND YOUR KNOWLEDGE

You can create an account in CPT using this link.