

Topic	FTP Server and Troubleshooting	
Class Description	Students will learn how to create a file transfer server cisco packet tracer. They will also learn about the basic troubleshooting.	
Class	197	
Class time	45 mins	
Goal	 Creating FTP server and client FTP commands Troubleshooting. 	ids
Resources Required	 Teacher Resources: Laptop with internet connectivity Earphones with mic Notebook and pen Smartphone Student Resources: Laptop with internet connectivity Earphones with mic Notebook and pen 	
Class structure	Warm-Up Slides Teacher - led Activity 1 Student - led Activity 1 Wrap-Up Slides	10 mins 10 mins 20 mins 5 mins
	WARM UP SESSION - 10mins	



Teacher Action	Student Action
Hi, How are you?	ESR: Hi, I am good.
What did you learn in the last class? Great!	ESR: In the last class I learned about different topologies, how to connect computers.
In today's class we are going to learn how to set up a server and client. Do you know what a server is? 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	ESR: varied
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.	
Q&A Session	
Question	Answer
Q1 . Which of the following is the application of ring topology? a) School campus b) House network c) MNC offices d) cyber cafes	a
Q2 . Which topology is the geometric representation of all the nodes in a network. a)ring topology b) bus topology c) physical topology	С

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TEACHER-LED ACTIVITY - 10mins

Teacher Initiates Screen Share

CHALLENGE

- Learn about the File Transfer protocol.
- Create a FTP server.

Teacher Action	Student Action
In the last few classes we have seen how to connect networking devices with each other and we also learned how the internet works. We can make a local Area network using Switch and then we can connect multiple LANs using a router.	ling to the
But we still haven't learned about a very important component of the internet. That is the Server. In simple words a server is just a computer, where we store files, so that multiple users can access these files.	
For example you tube has billions of videos uploaded and anyone can watch the videos and upload videos on youtube. You just need a google login ID.	ESR:
These videos are stored on a server, servers are designed to have a lot of memory and they are very fast as well. But why are these servers so important and can we make our own server? Answer is yes.	Varied
We can create our own server. For example you have a function at your home and you took a lot of photos and videos for that. But all of this data is present on your laptop. Now You want to share these with all the members of your family. First option is you can share using pendrive or any storage device. But this method is very time consuming and if you have a lot of data then it will take forever.	

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What you can do is create a server using your computer. This computer will have its IP address and all the people who are on your network will be able to access these files on their devices. Because the server and the devices are connected using a cable connection or Wifi connection they can transfer the files at a very high speed.	
This is possible because all the files are present at a server. Other devices or clients can connect with the server and access files. This happens using FTP or File Transfer protocol.	Lids
The server we just made is a local server. Only those people can access the file which are connected to your wifi or network. No one outside your network can access these files. These types of servers are made in schools, banks, hospitals, govt offices, where security is most important.	ding for
But if you want to make a website and upload videos on the website so that people around the world can see those videos then we need to create a server in a way so that anyone on the internet can see these videos. You must have seen a godaddy ad on youtube or TV, have you seen it? Godaddy provides the hosting for the website, where they basically provide their own server and our website is stored on their server. Our website has an IP address. Using that IP address anyone can access the website. Now we are going to create a very simple Server and client arrangement using Cisco packet tracer and we will see how we can transfer files from a server to a client computer using FTP.	ESR: Varied



First we need to open the Cisco Packet Tracer software. *Teacher runs the Cisco packet tracer.*

To create a server in CPT(Cisco Packet Tracer). We need 3 components, first we need a server.

On the server we will store our files.

Then we need a switch.

Can you tell me why we need a switch?

Because we want to connect multiple devices with the server and switch will provide us ports for that.

At last we need clients. Client is nothing but a normal PC or a laptop. We can have multiple clients with the server.

But in the beginning we will start with using only 1.

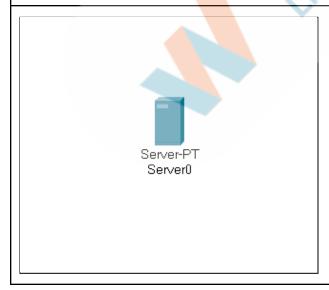
First of all drag and drop a server on the canvas from the end devices menu.



Varied



Now we have the server on the canvas.



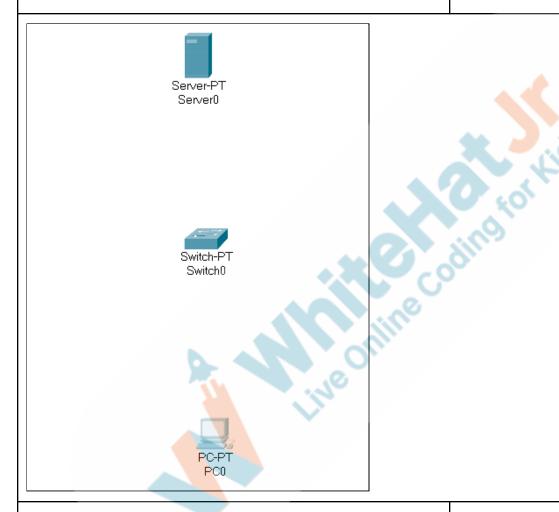
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Next we need a switch and a computer.
We will be using a PT-Switch for this Activity

Drag and drop the switch and computer on the canvas.



We got our devices now let's connect them together. Can you tell me which cable we should choose? We will use copper straight through cable to connect all 3 devices.

First server and the switch.

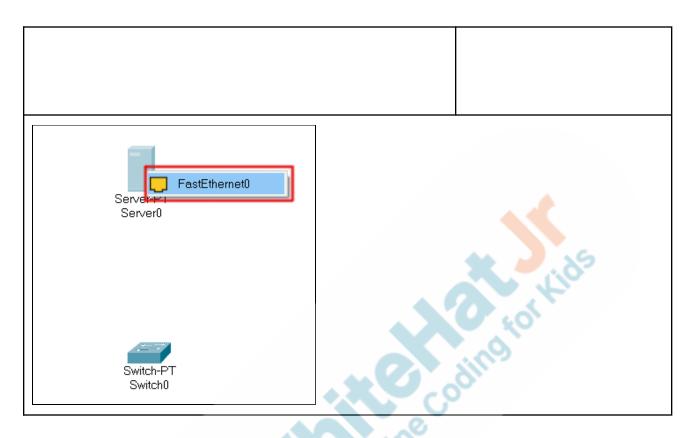
Select the copper straight through cable and click on the server and select the fastethernet port then click on the Switch and select the fast ethernet port.

ESR: Varied

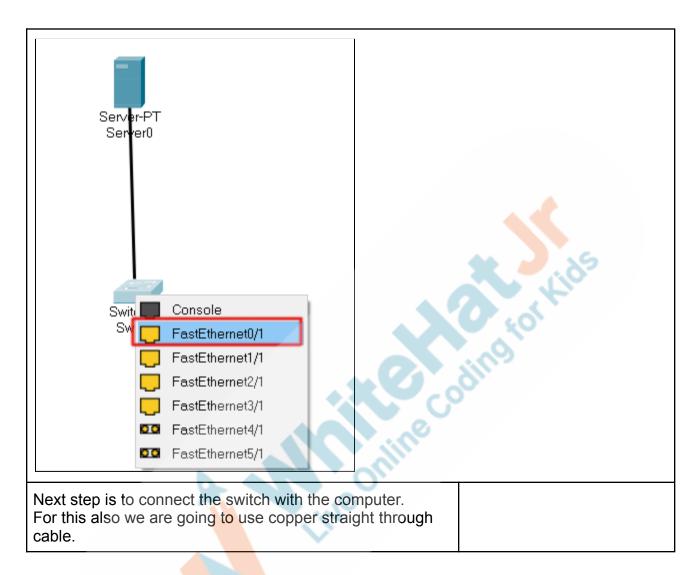
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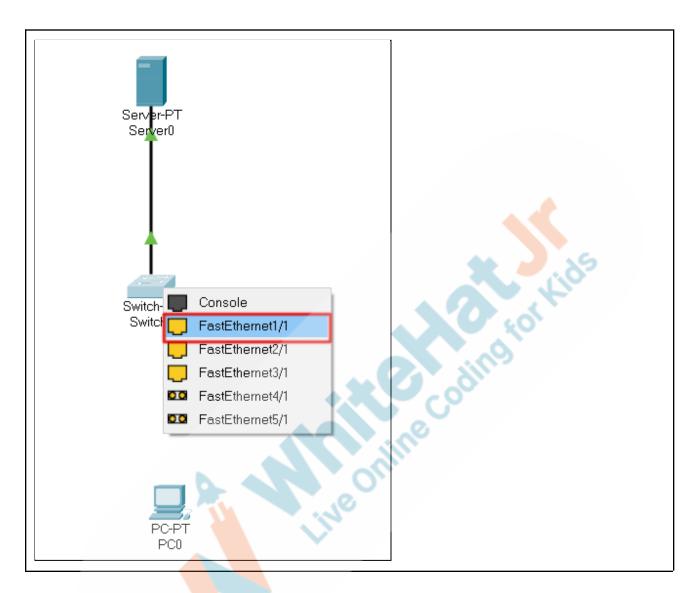




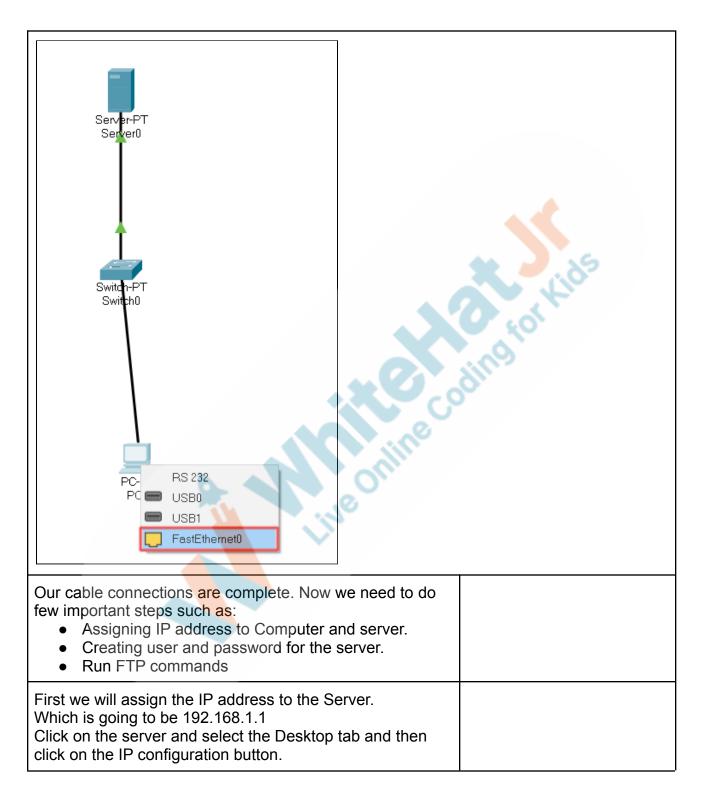




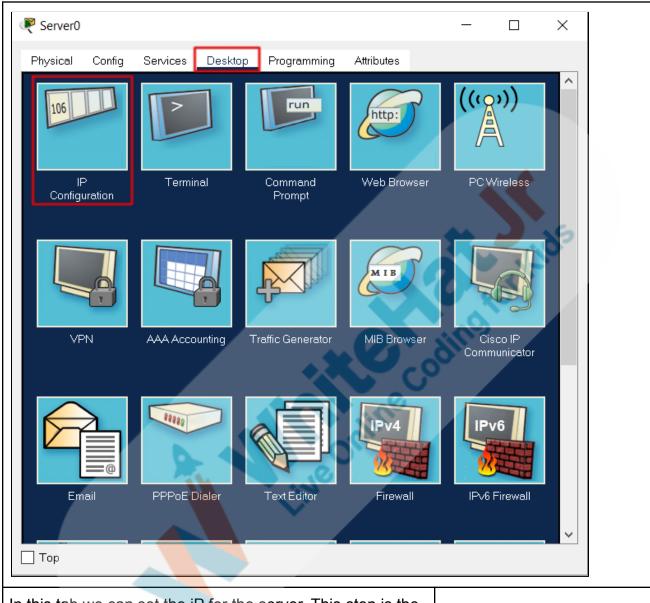






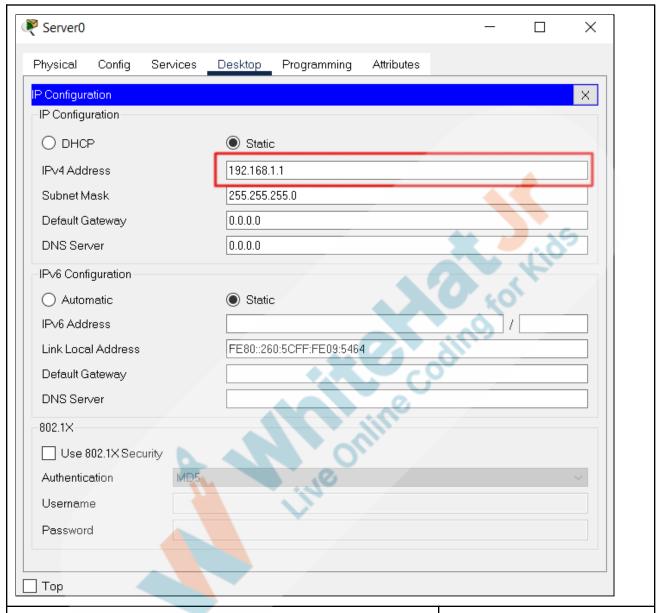






In this tab we can set the iP for the server. This step is the same as we do for a computer.





Now the next step is to set the username and password for the server. Because you don't want anyone to login to the server and access the files.

For example if you are creating a server for the school then students have limited access and teachers have access to a lot of things such as exam papers, student records etc.

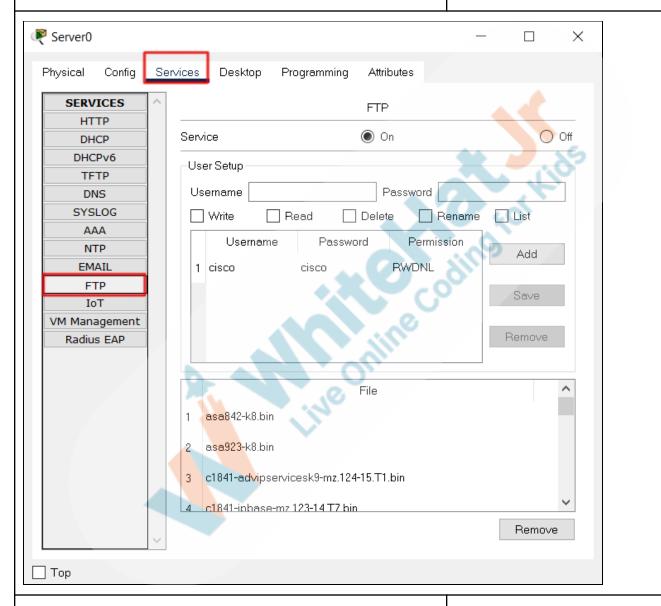
So we will create a username and password then we will also define what type of access this user will have.

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Double click on the server and select the **services** tab. On the left hand menu click on the FTP. here a page will open where we can set username and password.



In the user name section we can use any username but for simplicity let's set the username as **admin** and the password also we will set as **admin**.

Note: Remember the username and password, because it is going to be used while accessing the files from the

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server.

Below this we can choose what kind of access we want to give to this user.

Here we have options such as:

write-user can add the files to the server and create new files.

read- user can read the files from the server.

delete= user can delete the files from the server.

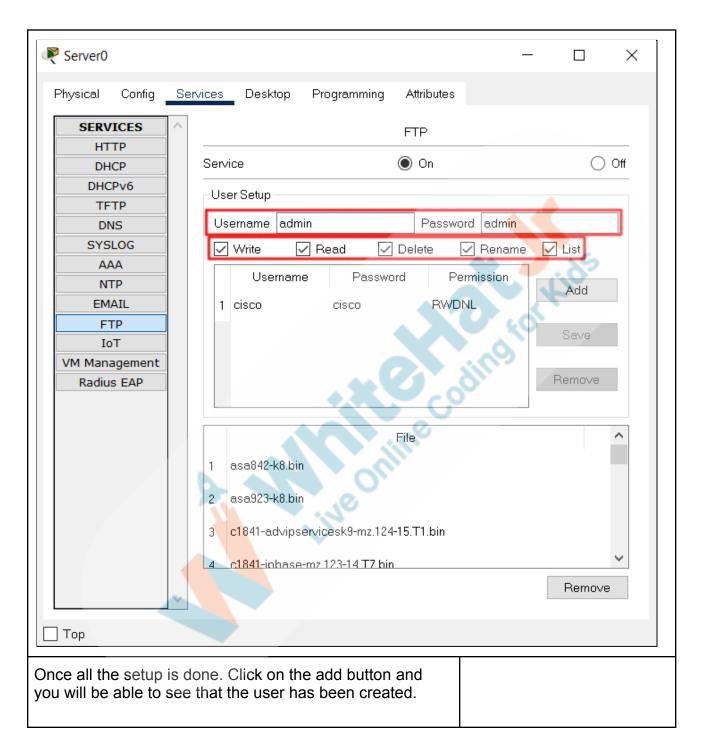
rename- user can rename the file

And at last **list**- user can list down or see all the files present in the server.

For this user we will select all the options.









₹ Server0			- 🗆 X	
Physical Config Se	rvices Desktop Pr	rogramming Attributes		
SERVICES		FTP		
DHCP	Service	On	Off	
DHCPv6				
TFTP	-User Setup			
DNS	Username	Password		
SYSLOG	☐ Write ☐ P	Read Delete Renami	e List	
AAA	Username	Password Permission	15	
NTP	Osemame		Add	
EMAIL	1 cisco	cisco RWDNL		
FTP	2 admin	admin RWDNL	Save	
IoT	Z ddiffiii	COMMITTED TO THE COMMIT		
VM Management Radius EAP			Remove	
Пор	1 asa842-k8.bin 2 asa923-k8.bin 3 c1841-advipservi	File cesk9-mz.124-15.T1.bin 123-14 T7 bin	Remove	
User is created now we need to set the IP for the computer and we will be good to go. Double click on the computer and go to the desktop and select IP configuration.				
Here we need to set 2 then the default gatew address of the Server.	ay. Which is going			

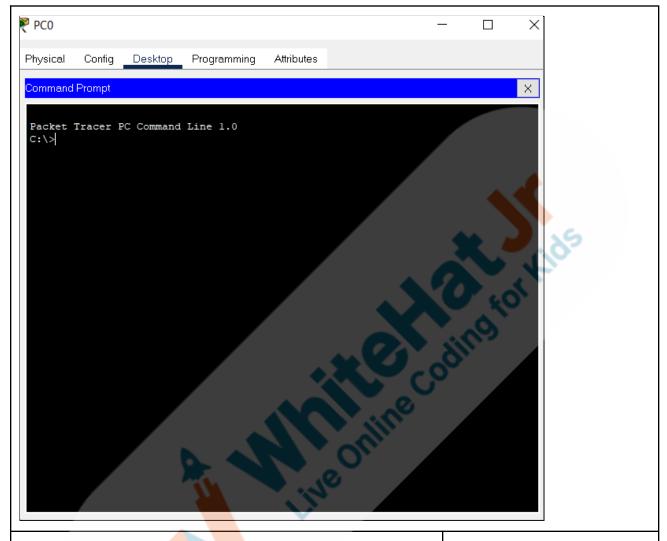
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₹ PC0	_	
Physical Config Desktop	Programming Attributes	
IP Configuration		×
Interface FastEthernet0		~
O DHCP	Static	
IPv4 Address	192.168.1.2	
Subnet Mask	255.255.255.0	
Default Gateway	192.168.1.1	. 89
DNS Server	0.0.0.0	
IPv6 Configuration	10,0	
O Automatic	Static	
IPv6 Address		
Link Local Address	FE80::2E0:A3FF:FEC1:640	
Default Gateway		
DNS Server		
802.1X	A Ou	
Use 802.1X Security	10	
Authentication MD5	T _{IR}	~
Username		
Password		
Тор		
We have our server and clied Now open the terminal of the run the file transfer command Close the current window an prompt.	e computer. We are going to ds.	





First we will login to the server.

Run the command as ftp 192.168.1.1

Ftp is the command and later is the IP address of the server.

Now the computer will ask for the username, so write the username as admin.

Then it will ask for the password.

Note: When we enter the password we won't be able to see the characters but it is getting entered. Once you type the password, then press enter.







Physical Config Desktop Programming Attributes Command 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 5 : cl900-universalk9-mz.SPA.155-3.M4a.bin 33591768 : c2600-advipservicesk9-mz.124-15.T1.bin 6 33591768 5571584 : c2600-i-mz.122-28.bin : c2600-ipbasek9-mz.124-8.bin 13169700 : c2800nm-advipservicesk9-mz.124-15.T1.bin 50938004 10 : c2800nm-advipservicesk9-mz.151-4.M4.bin 33591768 : 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-i6q412-mz.121-22.EA4.bin 3058048 15 : c2950-i6q412-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.SE.bin 10713279 21 : c800-universalk9-mz.SPA.152-4.M4.bin 33591768 : c800-universalk9-mz.SPA.154-3.M6a.bin 83029236 : cat3k caa-universalk9.16.03.02.SPA.bin 23 505532849 : cgr1000-universalk9-mz.SPA.154-2.CG 159487552 : cgr1000-universalk9-mz.SPA.156-3.CG 184530138 : ir800-universalk9-bundle.SPA.156-3.M.bin 160968869 : ir800-universalk9-mz.SPA.155-3.M 61750062 : ir800-universalk9-mz.SPA.156-3.M 63753767 : ir800 yocto-1.7.2.tar 2877440 : ir800 yocto-1.7.2 python-2.7.3.tar 6912000 : pt1000-i-mz.122-28.bin 5571584 32 : pt3000-i6q412-mz.121-22.EA4.bin 3117390 ftp>



Here are all the files which are present on our server. To check which commands are available to us we can type **help** and press enter.

This is the list of commands we can use.

```
ftp>help

cd
delete
dir
get
help
passive
put
pwd
quit
rename

ftp>
```

Some of the commands are easy to understand just by their name such as **rename** command is used to rename a file.and **delete** command to delete the files.

Using the get command we can copy the files from the server to our computer.

Let's run the get command to copy the files.

We need to know the file name for that.In the list above we have the files.

To copy any file write **get** 'filename'

After writing the commands press enter and this will start the file transfer.

Note: It may take upto a minute to copy the file.

```
ftp>get asa842-k8.bin

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

Once the process is complete. This shows us a prompt saying transfer complete.

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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>

This is how we can copy the files from the server to the computer using the copy command.

Now you may be wondering why we don't run a lot of commands when we copy from one device to another.

And that is true. Commands were used in the early era

help you transfer files from the serve to the client computer.
We have created a server and client configuration. Now let's add one more computer to the setup and run a few commands on that computer.

before the Operating systems were widely adopted.

Now there are various softwares are available which can

ESR:

Do you want to do that?

Greate!

Please share your screen with me.

Teacher Stops Screen Share

STUDENT-LED ACTIVITY - 20mins

- Ask the student to press the ESC key to come back to the panel.
- Guide the student to start Screen Share.
- The teacher gets into Fullscreen.

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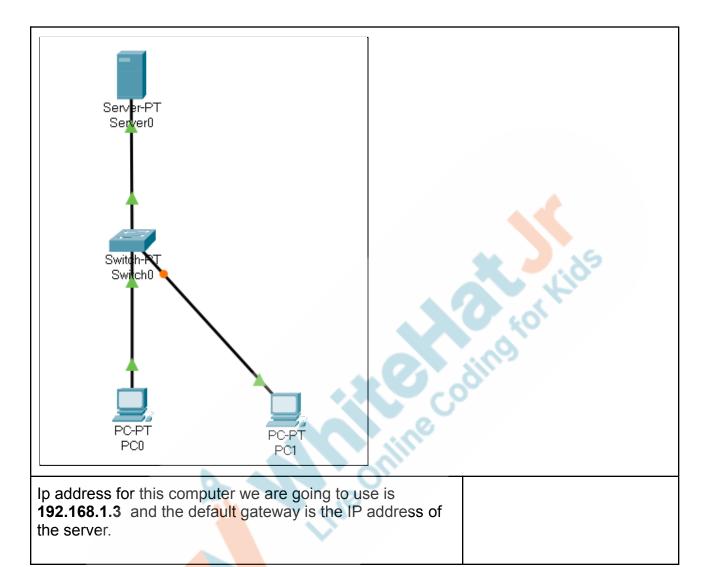


ACTIVITY

- Add 1 more computer to the network.
- Run FTP commands
- Troubleshooting the networks

Teacher Action	Student Action
We have created the network. Now let's add one more client to this network.	Student downloads the Student Activity 1 and open it in the Cisco Packet Tracer.
Do you know how to do it? We need to bring the computer to the canvas, then connect this with the switch and then set up the IP address and default gateway.	ESR: Varied
Here we have our 2nd computer connected with the server via switch. Now let's set up the IP and default gateway.	O.







Physical Config Desktop	Programming Attributes
IP Configuration	×
Interface FastEthernet0	~
IP Configuration	
ODHCP	Static
IPv4 Address	192.168.1.3
Subnet Mask	255.255.255.0
Default Gateway	198.168.1.1
DNS Server	0.0.0.0
IP√6 Configuration	The Asia
O Automatic	Static
IPv6 Address	
Link Local Address	FE80::20C:85FF:FE4C:3902
Default Gateway	
DNS Server	
802.1X	
Use 802.1X Security	OLU.
Authentication MD5	.0
Username	
Password	
Now go to the comma <mark>nds p</mark> type ftp 192.168.1.1 If our step is right it will start credentials.	rompt of this computer and t the ftp server and ask for login



Physical	Config	Desktop	Programming	Attributes		
Command I	Prompt					
C:\>ftp Trying t Connecte	192.168 to conne d to 19 come to	C Command .1.1 ct192.2 2.168.1.1 PT Ftp se	168.1.1			

Enter the username: **admin** and also the password is **admin**

This will open the ftp command line.

Run the help command to see the list of available commands.

Here we are going to use the rename command to rename a file on the server. First run the dir command to see the list of all the files. Copy the name of the first file along with its extension. **asa842-k8.bin**

Which .bin in this case.

```
Listing /ftp directory from 192.168.1.1:
    asa84
     asa92
                Copy
                                                          30468096
     c1841
                        sk9-mz.124-15.T1.bin
                                                          33591768
                Paste
                        23-14.T7.bin
                                                          13832032
     c1841-ipbasek9-mz.124-12.bin
     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.T1.bin
                                                          50938004
   : c2800nm-advipservicesk9-mz.151-4.M4.bin
                                                          33591768
   : c2800nm-ipbase-mz.123-14.T7.bin
                                                          5571584
   : c2800nm-ipbasek9-mz.124-8.bin
                                                          15522644
   : c2900-universalk9-mz.SPA.155-3.M4a.bin
                                                          33591768
   : c2950-i6q412-mz.121-22.EA4.bin
                                                          3058048
```

We type the rename command then the original name of

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the file and then the new name which we want to set. So here it will be **rename asa923-k8.bin test.bin** In both the case extension should be written along with the file name.

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

Renaming asa923-k8.bin

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

ftp>
```

Once done run the **dir** command to see the list of files and locate the renamed file. It should be at the bottom.

```
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
```

Now let's copy this file to our computer.

Can you tell me which command is used to copy the files?

Very good!

We will copy the renamed file.

Type **get** 'name of the file' and this will copy this file to our client computer.

Note: file transfer may take upto 1 minute to complete.

ESR: get



```
ftp>get pt1000-i-mz.122-28.bin

Reading file pt1000-i-mz.122-28.bin from 192.168.1.1:
File transfer in progress...

[Transfer complete - 5571584 bytes]

5571584 bytes copied in 36.605 secs (34875 bytes/sec)
ftp>
```

We have copied this file. Now lets exit the ftp server by writing quit command.

This will take us to the C drive of our client computer.

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

Here also we can run the **dir** command to list all the files.

And here is our file in the client directory.

This way we can run the commands from the ftp server and client computer.

In the last few classes we created various networks and used different networking devices.

While creating a network there are multiple things which can go wrong and our network will not work as expected. To solve the issues of the network we need to be able to troubleshoot the problem.

Here we will see few scenarios of problem in the network

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and how we will rectify the issue. The first issue is we have 2 computers connected with Student downloads the each other but we are not able to send or receive a ping Student Activity 2 and open and their connection is also showing red triangles in CPT Can you sort this issue. Encourage the student to find and solve the issue on their own. The First step is to check whether these 2 computers are assigned the IP address or not. **ESR:** Do you know how to check the IP address of a computer? lpconfig command in command prompt Very good! We also directly go to the IP configuration tab and see if we have assigned the IP properly. We can see that IP is assigned correctly. Now check the other computer as well. Physical Config Desktop Attributes Programming IP Configuration Χ FastEthernet0 Interface IP Configuration O DHCP Static 10.0.0.1 IPv4 Address 255.0.0.0 Subnet Mask 0.0.0.0 Default Gateway DNS Server 0.0.0.0 Both the computers are assigned the IP then why ur connection is not working. Next step is to check the wire. Are we using the correct wire? I don't think so. We are using copper straight through cable. But to connect 2 computers directly we need to use crossover cable.

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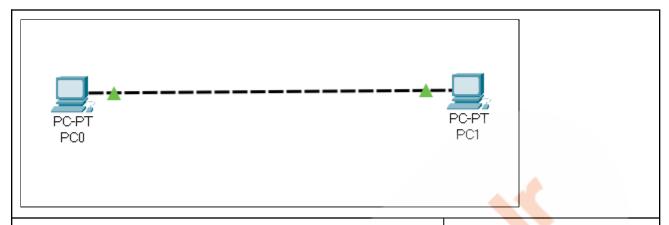


Press the delete button on the keyboard and then click on the wire. This will remove the wire. Now select the copper cross over cable, click on the first computer and select the fast ethernet port. Then click on the second computer and choose the fast ethernet port. And now you can see that the connection looks good, now we have green triangles. RS 232 USB0 USB1 FastEthernet0 RS 232 USB0 USB1 FastEthernet0

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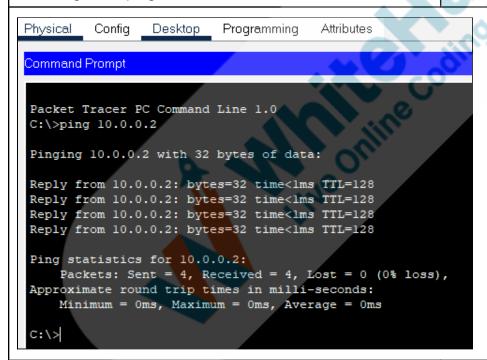
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To test if everything is working fine. Double click on any computer and open the command prompt. Then perform the ping with the other computer.

And we got the ping now.



Now let's move to another issue.

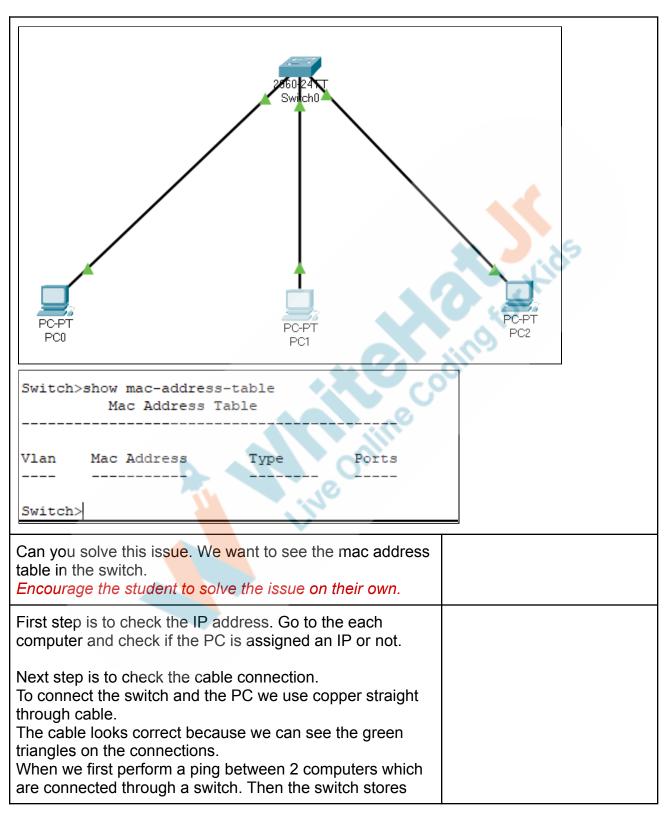
Here we have a LAN. 4 computers are connected with a switch.

But we are not able to see the mac address table in the switch.

Student downloads the Student activity 3 and open in the CPT

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the mac address of both computers.

You can try to perform a ping and see if our mac address appears in the table.click on the first computer and open the commands prompt and we will ping the last computer. We are getting a ping.

```
Physical
         Config
                 Desktop
                          Programming
                                        Attributes
Command Prompt
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.3
Pinging 192.168.1.3 with 32 bytes of data:
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms
C:\>
```

Now on the switch let's see the mac address table.

And here we can see the Mac addresses of 2 computers.

```
Switch>show mac-address-table

Mac Address Table

Vlan Mac Address Type Ports

1 0001.4266.bd17 DYNAMIC Fa0/3
1 00e0.f721.ad08 DYNAMIC Fa0/1

Switch>
```

We can ping the 2nd computer as well and then we will be

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able to get it's mac address also in the address table.

```
C:\>ping 192.168.1.2
 Pinging 192.168.1.2 with 32 bytes of data:
 Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
 Ping statistics for 192.168.1.2:
     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
 Approximate round trip times in milli-seconds:
     Minimum = 0ms, Maximum = 0ms, Average = 0ms
Switch>show mac-address-table
         Mac Address Table
Vlan Mac Address Type
                                        Ports
   1 0001.4266.bd17 DYNAMIC
1 000d.bd42.393d DYNAMIC
                                        Fa0/3
                                        Fa0/2
        00e0.f721.ad08 DYNAMIC
                                        Fa0/1
Switch>
Now our issue is resolved we can see the mac address of
all the computers here.
This is how we can perform troubleshooting in networking.
You did a really good job today.
We have learnt how to configure the Server and client.
We also used FTP commands to manipulate the files on
the server.
And at last we explored 2 scenarios on network
troubleshooting.
In the next class we are going to create a software server
using the socket library of python.
```

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Teacher Guides Student to Stop Screen Share				
Quiz time - Click on in-class quiz				
Question	Answer			
Q1. In the above simulation in which port do we connect the Copper Straight Through cable?	b			
a.Ethernet port b.FastEthernet port c.LAN port d.Gigabit port	* Jids			
Q2. What does FTP stand for ?	а			
a.File Transfer Protocol b.File To Point c.Frame To Port d.Firebase terminal protocol.	ding			
Q3. What command is used to copy the file from the server to the PC?	а			
a.get b.copy c.send d.take				
End the quiz panel				
WRAP UP SESSION - 5 Mins				
Teacher starts slideshow from slide to slide				
Activity details	Solution/Guidelines			
Run the presentation from slide to slide				

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Following are the warm up session deliverables:

- Explain the facts and trivias
- Next class challenge
- Project for the day
- Additional Activity

Guide the student to develop the project and share with us



Teacher ends slideshow

FEEDBACK

- Appreciate the student for their efforts in the class.
- Ask the student to make notes for the reflection journal along with the code they wrote in today's class.

You get Hats Off for your excellent work!

Awesome!

Make sure you have given at least 2 Hats Off during the class for:



Teacher Clicks

× End Class

Additional Activities

Encourage the student to write reflection notes in their reflection journal using markdown.

Use these as guiding questions:

What happened today?

The student uses the markdown editor to write her/his reflections in the reflection journal.

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 Describe what happened. The code I wrote. How did I feel after the class? What have I learned about programming and developing games? What aspects of the class helped me? What did I find difficult? 	
Ask the student to create the server and client setup from scratch. And use the copy and rename commands.	

Links Table

Activity	Description	Link
Teacher Activity 1	Solution file for Reference	https://drive.google.com/file/d /1QWfjAUEoSNXGV5VzWPR Z2DvEX7b8DJeq/view?usp= sharing
Student Activity 1	Template	https://drive.google.com/file/d/13OCy5UgbTYrs2BTvgcfPuztSyeM-MW0Z/view?usp=sharing
Student Activity 2	Template	https://drive.google.com/file/d/1FyUVpelGgd36GJ1pnYrtBJa8NjzUJUSS/view?usp=sharing
Student Activity 3	Template	https://drive.google.com/file/d /1qU42b_ECnxSPCIr3NQk2Y O9cJA14VJdx/view?usp=sha ring



