**EXP : Configuration of FTP in Cisco packet tracer and verify the connection**

1. Set Up the Network Topology

* Open Cisco Packet Tracer.
* Add the following devices to the workspace:
  + One server (to act as the FTP server).
  + One or more PCs (to act as FTP clients).
  + One or more switches to connect devices (if needed).
  + Appropriate number of cables to connect the devices.

2. Configure the IP Addresses

* Assign the following IP addresses:
  + PC1: 10.0.0.1/24
  + PC2: 10.0.0.2/24 (if you have more than one PC)
  + Server: 10.0.0.3/24

To assign IP addresses:

* For each PC, click on the device and navigate to the Desktop tab.
* Open the IP Configuration option and set:
  + PC1: IP address as 10.0.0.1, subnet mask 255.255.255.0
  + PC2 (if used): IP address as 10.0.0.2, subnet mask 255.255.255.0
* For the Server, click the server device, go to the Desktop tab, and assign:
  + Server: IP address as 10.0.0.3, subnet mask 255.255.255.0

3. Configure the Server (FTP Server)

* Click on the server device.
* Go to the Services tab.
* From the list of services on the left, select FTP.
* Ensure that the FTP service is turned ON.
* Add FTP users by providing a username and password (e.g., admin / password).
* Optionally, you can configure file settings such as upload/download permissions.

4. Verify IP Connectivity

* From any of the PCs, use the **ping** command in the **Command Prompt** to ensure connectivity to the server.
  + Example: From PC1, run ping 10.0.0.3 (to test connectivity to the server).
* If the ping is successful, it confirms that the devices are on the same network and can communicate.

**5. Access FTP from Client PCs**

* Go to one of the **PCs** (FTP clients).
* Open the **Desktop** tab and launch the **Command Prompt**.
* Use the FTP command to connect to the server:

bash

Copy code

ftp 10.0.0.3

* When prompted, enter the **username** and **password** that you configured on the FTP server (e.g., admin / password).
* Once logged in, you can use basic FTP commands to download or upload files:
  + To view files: ls or dir
  + To download a file: get filename
  + To upload a file: put filename

**6. Additional FTP Commands**

* Some useful FTP commands to test in Packet Tracer:
  + **ls**: Lists files in the current directory on the server.
  + **get [filename]**: Downloads a file from the server.
  + **put [filename]**: Uploads a file to the server.
  + **bye**: Disconnects from the FTP session.