COMPUTER NETWORKS ASSIGNMENT 8

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Aim: Installation and Configuration of FTP server and access it through FTP Client

Objective: To understand and implement the installation and configuration of FTP server .

Theory:

FTP:

File Transfer Protocol (FTP) is a standard Internet protocol for transmitting files between computers on the Internet over TCP/IP connections. FTP is a client-server protocol where a client will ask for a file, and a local or remote server will provide it.

The end-users machine is typically called the local host machine, which is connected via the internet to the remote host—which is the second machine running the FTP software.

Anonymous FTP is a type of FTP that allows users to access files and other data without needing an ID or password. Some websites will allow visitors to use a guest ID or password- anonymous FTP allows this.

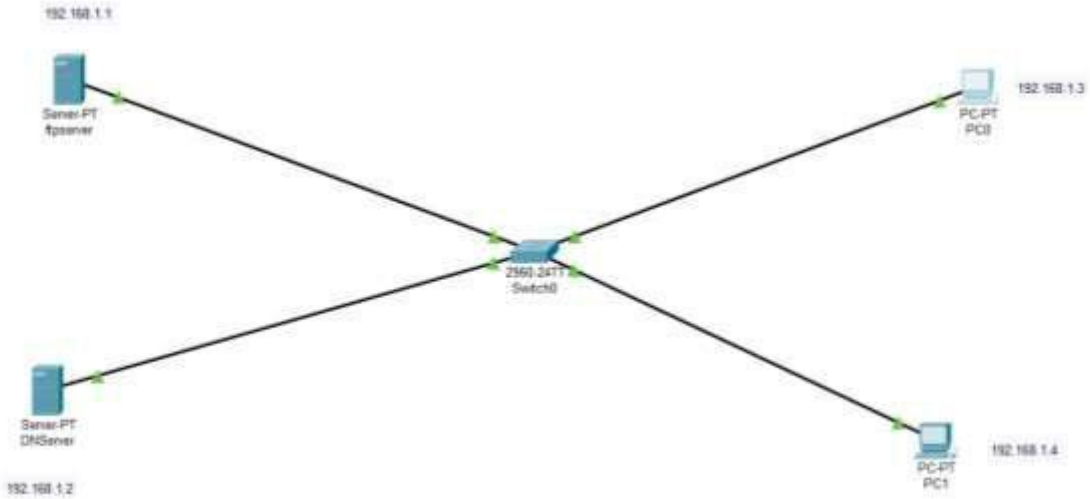
Although a lot of file transfer is now handled using HTTP, FTP is still commonly used to transfer files "behind the scenes" for other applications -- e.g., hidden behind the user interfaces of banking, a service that helps build a website, such as Wix or SquareSpace, or other services. It is also used, via Web browsers, to download new applications

How FTP works

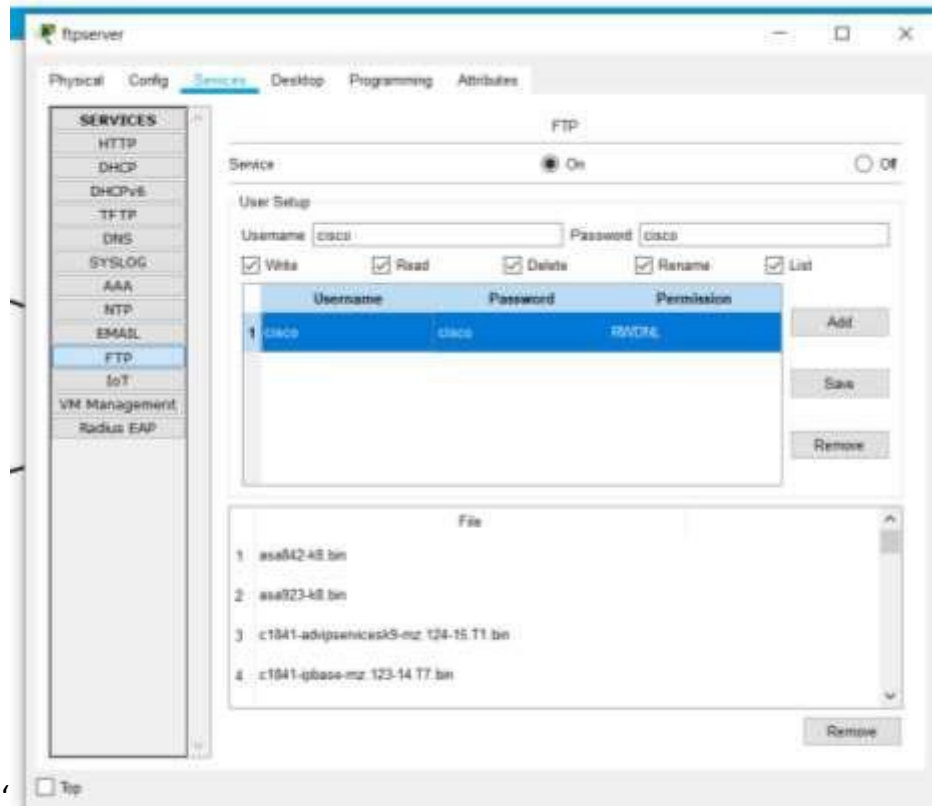
FTP is a client-server protocol that relies on two communications channels between client and server: a command channel for controlling the conversation and a data channel for transmitting file content. Clients initiate conversations with servers by requesting to download a file. Using FTP, a client can upload, download, delete, rename, move and copy files on a server. A user typically needs to log on to the FTP server, although some servers make some or all of their content available without login, known as anonymous FTP.

FTP sessions work in passive or active modes.

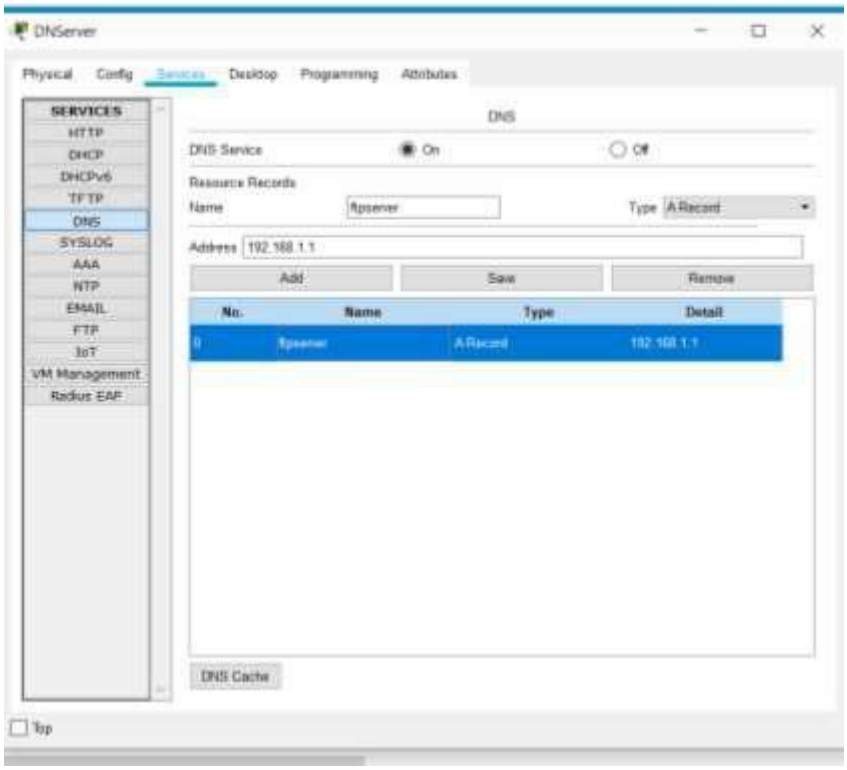
Network Diagram:



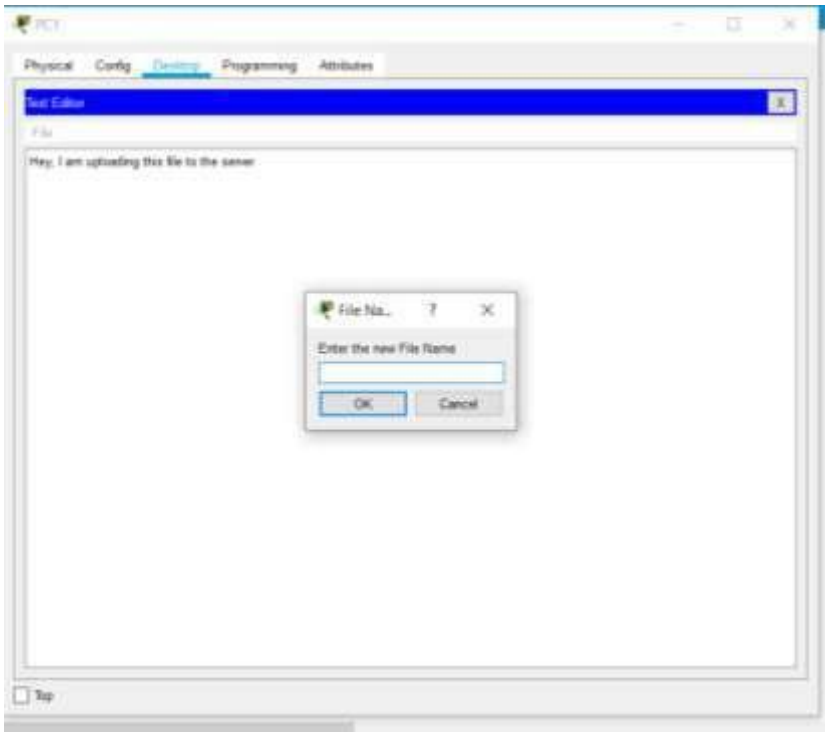
Setting up FTP server:



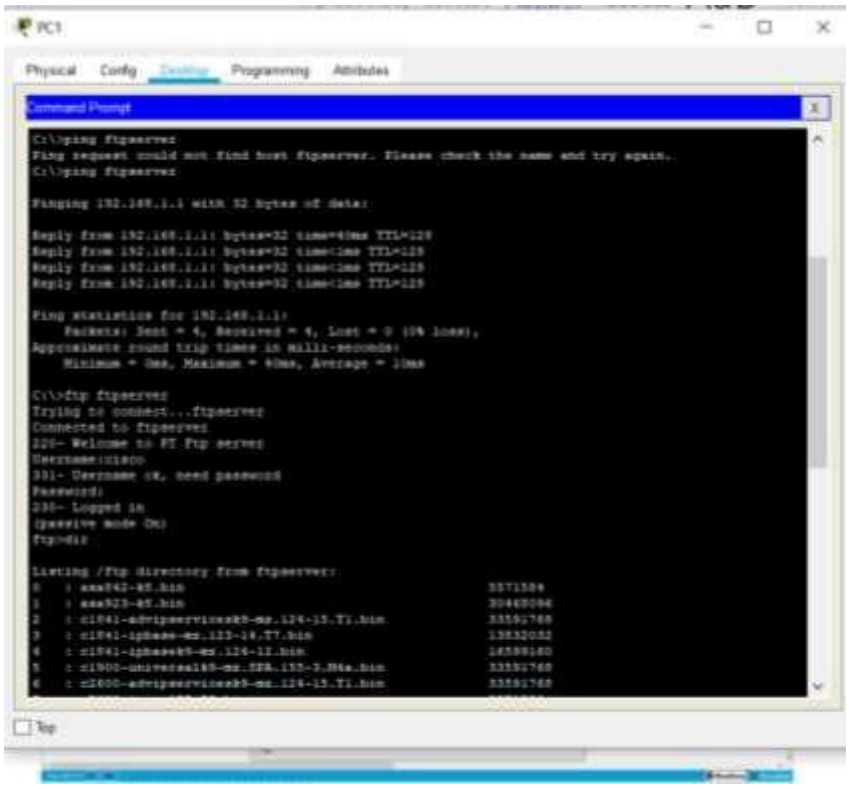
Setting up DNS server:



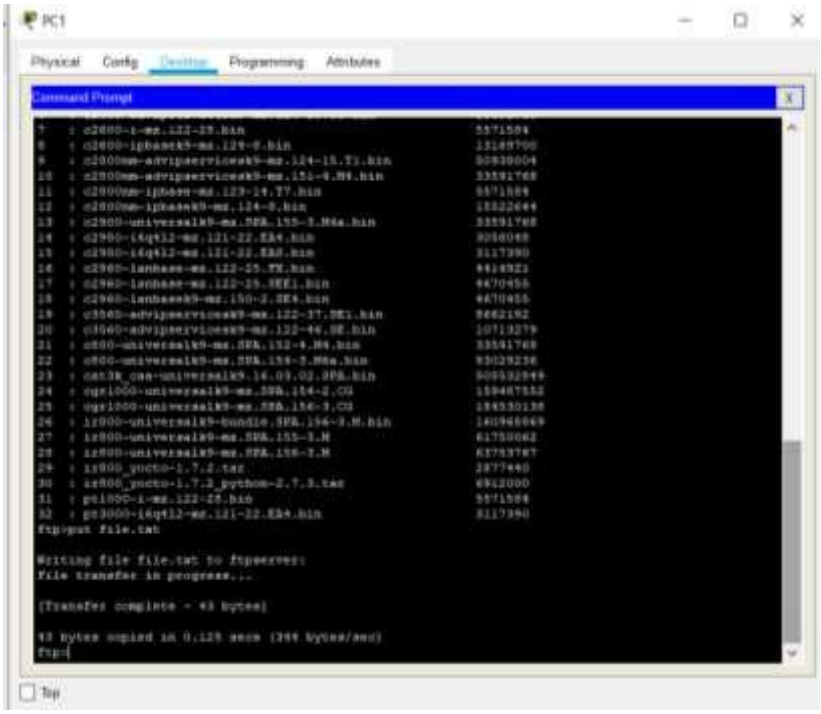
Saving File on client side:



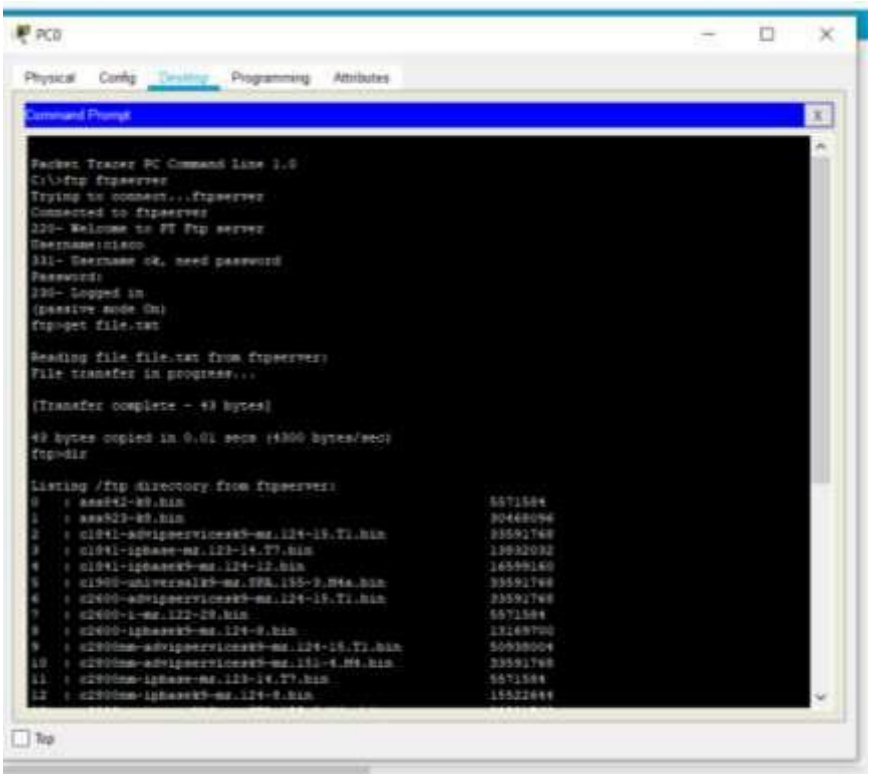
Uploading File to the Server:



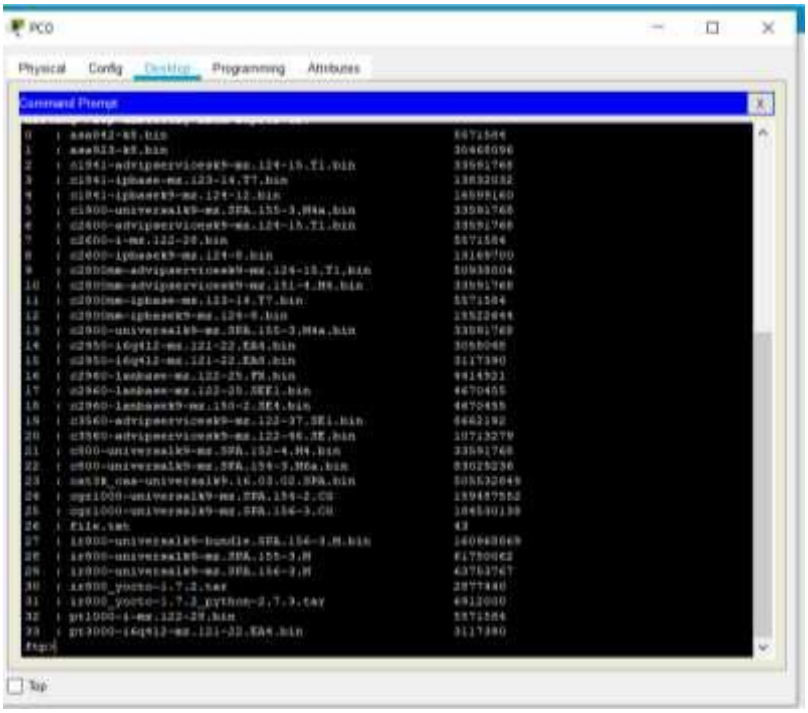
File uploaded to the server:



File downloaded by the client



File seen on the client side



Conclusion:

Hence, we have successfully implemented and configured FTP server and client.