

FTP (File Transfert Protocol)

File Transfer Protocol (FTP) is a standard **network protocol** used to **transfer files from one host to another over a TCP-based network**, such as the internet. FTP is built on a **client-server architecture** and uses separate control and data connections between the client and the server.

The FTP protocol enables clients to **upload** and **download** files, **create** and **delete** directories, and list the contents of directories on a **remote server**. FTP clients are available for all major operating systems, and most modern web browsers also support FTP.

Difference between active and passive mode Connections

In FTP, there are two modes of data transfer: active and passive. In active mode, the client initiates a connection to the server to transfer data. In passive mode, the client initiates a connection to the server to request a data transfer, and the server then initiates a connection back to the client to send the data.

Passive mode is often used when the client is behind a firewall or NAT (Network Address Translation) device, because the client's firewall or NAT may block incoming connections from the server. Passive mode allows the client to establish the connection with the server, and then the server can establish a connection back to the client to send data.

vsftpd package on your system. **vsftpd** stands for "Very Secure FTP Daemon," and it is a popular FTP server software for Unix-like systems. Once installed, you can use **vsftpd** to set up and manage an FTP server on your system.

What is a Chroot Environment?

A chroot environment is an operating system call that will change the root location temporarily to a new folder. Typically, the operating system's conception of the root directory is the actual root located at `/`. However, with chroot, you can specify another directory to serve as the top-level directory for the duration of a chroot.

Any applications that are run from within the chroot will be unable to see the rest of the operating system in principle. Similarly, a non-root user who is confined to a chroot environment will not be able to move further up the directory hierarchy.

Filezilla?

FileZilla is a free, open source file transfer protocol (FTP) software tool that allows users to set up FTP servers or connect to other FTP servers in order to exchange files. FileZilla traditionally supported File Transfer Protocol over Transport Layer

Security (FTPS). The [client](#) software for FileZilla is available for all platforms and is free.