FTP and TFTP

The meaning of FTP is File Transfer Protocol and the function of this is to transfer files from one system to another over the internet. FTP works by opening two connections that link the computer trying to communicate with each other. One of the main reasons to use FTP is the ability to perform large file size transfers. When sending a relatively small file, like a word document, pdf, excel document, music, etc, most methods will do, but with FTP, you can send hundreds of gigabytes at once and still get a smooth transmission. As a web developers, we need to use FTP with an FTP client to access the website that you are managing. Furthermore, it is easier to create and remove directories and read a large number of files on the server.

As developers we have a program to use FTP, for example, I created the web page for a school when I finished the page I needed to upload the files, for this with my partner we used FileZilla to connect with the server and transfer the file of my computer to the server.

Ok, and what have the difference the TFTP from FTP?

The difference of the TFTP which means Trivial File Transfer Protocol is that TFTP's Transport protocol uses User Datagram Protocol UDP which is not secure while FTP uses Transmission Control Protocol TCP to secure information.

TFTP provides no authentication and security while transferring files. As a result, it is usually used for transferring boot files or configuration files between machines in a local setup.

In short words, we can say that FTP is used to connect with a server in the network and transfer files with big size and this has a secure protocol, and TFPT is used from the local network and is used to transfer files with short size.

TCP is what is used to guarantee that all the data is received and in order, because without TCP, then some of the data could be missing or out of order For example you download a file, then you might not get the entire file, or you could get the file out of order, which would render the file useless. Another important thing to remember about TCP, is that it guarantees the delivery of the data.

Ok and UDP is also for sending and receiving data. but the main difference is that UDP is connection-less which means that it does not establish a session and it does not guarantee data delivery so when a computer sends their data it doesn't really care if the data is received at the other end.