Client & Server

Client: refer to the application involved in a communication that actively initiates the contact, and run locally on users computer.

Server: refer to the application that passively waits for contact, and run on shared computer.

Host: is a main computer that has all the programs, data and the processing elements.

Terminal: is a computer that may connect to the host.

Protocol: is defined as a set of standard rules that lets communication between computers takes place.

The protocols of Internet

TCP/IP

TCP: (Transmission Control Protocol) is a protocol that allows stream of bytes from the sender to be delivered to the receiver without error .

IP: (Internet Protocol) is a protocol to specify an official packet format and to deliver IP packets to the destination.

HTTP: (Hyper Text Protocol): is the protocol needed when a browser interacts with a web server, it allows a browser to request for items and server then returns there unambiguously in the exact format as specified by the request.

FTP: (File Transfer Protocol): is the protocol needed for sending files on the Internet. The files can be uploaded or downloaded by using FTP. File Transfer Protocol FTP, is the simplest way to exchange files between computers on the Internet. Like the Hypertext Transfer Protocol HTTP, which transfer displayable Web pages and related files.FTP is an application protocol that uses the Internet's TCP/IP protocols.

HYPERTEXT

The World Wide Web (WEB or www or W3) consist of client and server computers that are capable of handling multimedia documents. The client computer use browser software(like Internet Explorer or Mozila FireFox)to view documents. WWW uses HTTP protocol.

The hypertext objects refer to the text and object linked to each other.

HTML

Each browser must contain an HTML interpreter to display pages. HTML is Hyper Text Markup Language. Web pages use this representation , this includes the general guidelines to display a page and allows a browser to choose the details. Therefore, two browsers can display an HTML document in different ways.

File Transfer:

In general, a file transfer is divided into two types :

-**Download**: it means bring the files from **host** computer **into local (terminal)** computer.

-**Upload**: it means send the files from **local (terminal)** computer **into host** computer.

From a security side, there two types of files transfer

-Secure FTP: needed username and password.

-Anonymous FTP: do not need username and password, if the system request it you can replace it by guest or anonymous.

you can using FTP in many ways involved:

1-By using special program such as Ws_ftp , cute FTP, …

2- By using a browser where in these manner you should write in URL ftp:// instead of http:// then write the site name ,then the site will request about username and password after entering it , the site page will appear as folders and files here you can double click to download what you want.

3-By using Telnet .

4-By using a prompt in linux and windows

FTP commands in windows xp

To run MS-DOS prompt :   **Start – Run – CMD**

After open MS-DOS prompt ,you can use FTP commands which are:

1-FTP : to using FTP.

2-open : to open a desired site, where after you write enter the word [to]

will appear so you can enter the site name.

3-cd   : to enter a desired folder.

4-ls   : to list a files and folders.

5-dir   : to list files and folders in details.

6-delete   : to delete a specific file.

7-mdelete   : to delete more than one file.

8-put   : to upload a file.

9-mput   : to upload more than one file.

10-get   : to download a file.

11-mput   : to download more than one file.

12-bye   : to exit from FTP protocol.

Example// download a three files (index.php , likebox.html , table.pdf)

using FTP protocol ,where the name of site is www.mysite.com

Sol//

Start-run-CMD

C:\users>ftp

ftp>open

to www.mysite.com

ftp>cd www

OK. Current directory is /www

ftp> get index.php
ftp> likebox.html
ftp> table.pdf
ftp>bye

c:\users>