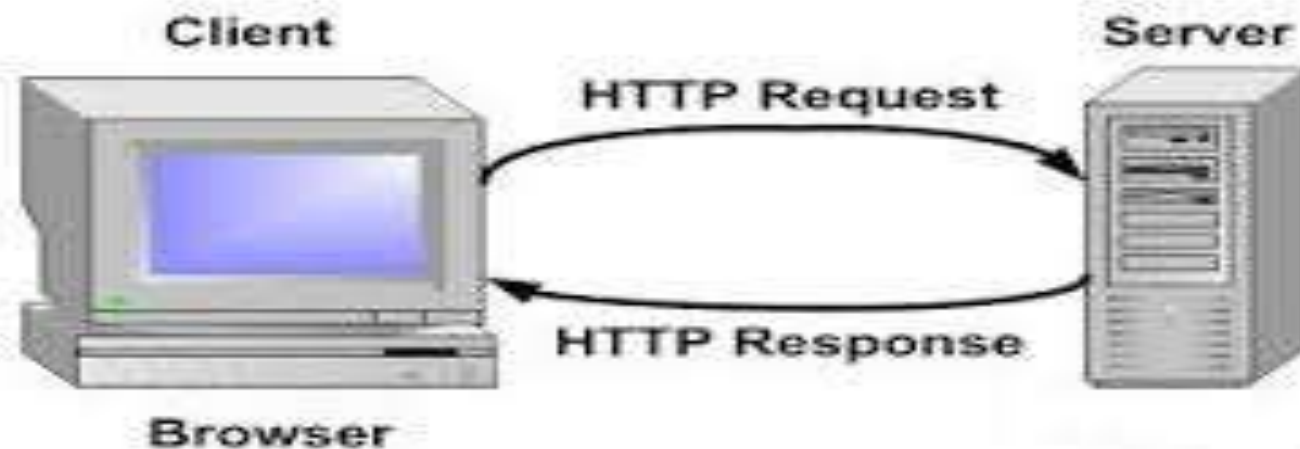


HTTP protocol:-

- Hypertext Transport Protocol
- HTTP is the protocol that supports communication between web browsers and web servers.
- A “Web Server” is a HTTP server

Request - Response

- HTTP has a simple structure:
 - client sends a request
 - server returns a reply.



HTTP – URLs:-

- URL
 - Uniform Resource Locator
 - protocol (http, ftp)
 - host name (name.domain name)
 - resource name

HTTP Request Packets:-

- Sent from client to server
- Consists of HTTP header
 - header is hidden in browser environment
and a URL

HTTP Response Headers:-

- Sent by server to client browser
 - Content-Length:
 - Content-Type:
 - Expires:
 - Last-Modified:
 - extension-header

FTP:-

- ftp is a simplest and most secure way to exchange file over the internet.
- Transferring file from a client computer to server computer is called “uploading” and transferring file from server to a client is “downloading”.
- To access an ftp server user must be able to connect to the internet(via a modem or any LAN).
- A file may contain any type of digital Information – text, image artwork, movies, sound , software, etc.

- **Purpose: To Transfer files between two computers**
- **Goals of FTP Service**
 - sharing of files (programs and/or data)
 - Transfer data reliably and efficiently
 - User can also *upload* a file to the FTP Server.

- The File Transfer Protocol (FTP) standard network protocol used for the transfer of computer files between a client and server on a computer network.
- The original specification for the file transfer protocol was written by Abhay Bhushan, he is the author of the file transfer protocol (which he started working on while he was a student at IIT- kharipur.)
- ftp user may authenticate with a clear – text sign-in with login window with the help of username and password , and another can connect anonymously if the server is configured to allow it.

- Secure transmission that protects the username and password, and encrypts the content for security.
- FTP protocol having two types:-
- **1. login FTP:-**
- ftp login uses a normal username and password scheme for granting access.
- If the information provided by the client is accepted by the server , server will send a greeting to the client and the session established.
- Only authorize access for such session.

- 2. Anonymous [FTP](#):-
- Anonymous means unknown .
- A host that provides an ftp service may provide Anonymous ftp access.
- User typically log into the service with an 'Anonymous' account when prompted for user name.

Telnet protocol:-

- telnet is a protocol used to log in to remote (longer distance) computer on the internet.
- telnet was developed in 1969.
- telnet provided access to a command –line interface (text mode like DOS operating system) on a remote host.
- But now telnet concept becomes remote desktop login with graphical interface.
- There are a number of telnet client having user friendly user interface.