

Web Hosting

1. Web Hosting : Web hosting is a service that allows you to publish a website on the Internet. Website files are stored on the server and people can access the files through a web browser.

Web hosts are companies that provide web hosting services.

2. Different types of web hosting

2.1 Free Hosting : Web pages can be hosted free of cost. But it will not have user support and will have low bandwidth. The service provider displays advertisements in the websites hosted to meet the expenses.

2.2 Shared hosting : By sharing resources like RAM, CPU and storage space, some companies can host more than one website on a web server at the same time. It is cheap and easy to use for small websites with low traffic. **Disadvantage :** If there is a large amount of traffic from any of these, it will slow down all the other websites hosted on the shared server.

2.3 Dedicated hosting : Resources such as server space, CPU and RAM are utilized only for one client/website. It provides higher bandwidth and better operating speed. The major disadvantage is the higher cost.

2.4 Virtual Private Server (VPS) : It is a physical server that is virtually partitioned into several servers using the virtualization technology that share resources like CPU and RAM. It is more convenient than shared hosting and less expensive than dedicated.

3. Domain name registration DNS (Domain Name System)

- i) Decide on a domain name for the website
- ii) Check if the domain name is available using **ICANN's database**
- iii) Enter name, address, phone number, e-mail address, etc. in the **'WHOIS'** database
- iv) Pay the annual fee
- v) Modify **'A record'**

4 FTP client software : FTP client software establishes a connection with a remote server and is used to transfer web files from our computer to the server computer.

FTP client software functionality

In the FTP software window, the left part displays the folders and files on our computer, and the right part displays the files and folders on the web server computer. We can transfer files from our computer to the web server using the 'drag and drop' method.

The popular FTP client software are : FileZilla, CuteFTP, Smart FTP

► Advantage of using SFTP (Secure File Transfer Protocol) over FTP software?

Answer : When FTP software is sent unsecured, SFTP software encrypts the username, password, and data to the server and sends it securely.

5 .Content Management System : It is a web-based software used to easily build, manage and publish dynamic websites. There are many templates available in CMS.

Name of the CMS software : WordPress, Drupal, Joomla

6 .Responsive web design: Used to make the website look the same on all devices regardless of screen size.