

## CHAPTER 7

# Web Hosting

### Web Hosting

- **Web hosting** is the service of providing storage space in a web server to serve files for a website.
- The companies that provide web hosting services are called **web hosts**.

### Types of Web hosting

Three types of web hosting are:

1. Shared hosting
2. Dedicated hosting
3. Virtual Private Server

#### 1. Shared hosting

This is the most common type of web hosting. It is referred to as shared because many different websites are stored on one single web server and they share resources like RAM and CPU.

#### 2. Dedicated Hosting

Dedicated web hosting is the hosting where the client leases the entire web server and all its resources. Dedicated hosting is ideal for websites that require more storage space and more bandwidth and have more visitors. This is the most expensive web hosting method.

#### 3. Virtual Private Server

This type of hosting is suitable for websites that require more features than that provided by shared hosting, but does not require all the features of dedicated hosting. Each website has



its own RAM, bandwidth and OS. VPS is cheaper than dedicated hosting but more expensive than shared hosting.

### **Buying hosting space**

- While purchasing hosting space, we have to decide the amount of space required.
- We need to select a hosting space that is sufficient for storing the files of our website.
- If the web pages contain programming content, we need a supporting technology in the web server.

### **Domain name registration**

- Domain names are used to identify a website in the Internet.
- After finalising a suitable domain name for our website, we have to check whether this domain name is available for registration .
- The websites of the web hosting companies or web sites like [www.whois.net](http://www.whois.net) provide an availability checker facility where we can check this.
- These websites check the database of ICANN that contains the list of all the registered domain names
- If the domain name entered is available, we can proceed with the registration.

### **FTP client software**

- FTP is used to transfer files from one computer to another on the Internet. FTP client software establishes a connection with a remote server and is used to transfer files from our computer to the server computer. The popular FTP client softwares are FileZilla, CuteFTP, SmartFTP, etc.

### **Free hosting**

- Free hosting provides web hosting services free of charge. The service provider displays advertisements in the websites hosted to meet the expenses. Only allow you to upload very small files. Also audio and video files are not allowed.
- Free hosting companies offer two types of services for obtaining a domain name:
  1. Directory Service: -



Company Address / Our Address (www.example.com/oursite)

2. Sub Domain: - Our Address.Company Address (oursite.example.com)

## **Content Management System(CMS)**

- Content Management System (CMS) refers to a web based software system which is capable of creating, administering and publishing websites.
- CMS provides an easy way to design and manage attractive websites.
- Some of the popular CMS software are WordPress, Drupal and Joomla

## **Responsive web design**

- Responsive web design is the custom of building a website suitable to work on every device and every screen size.
- Responsive web design can be implemented using flexible grid layout, flexible images and media queries.
- Flexible grid layouts set the size of the entire web page to fit the display size of the device.
- Flexible images and videos set the image/video dimensions to the percentage of display size of the device.
- Media queries provide the ability to specify different styles for individual devices.

## **Sample Questions**

1. Explain the different types of Web Hosting.
2. What is Content Management System ?
3. Explain the need for applying responsive web design while developing websites
4. Briefly explain about FTP client softwares.
5. What is free hosting?