

Chapter 7

Web Hosting



Road Map For Website Creation



Create Webpage

Using HTML, CSS, Javascript

Buy Hosting Space

- 1) *Shared hosting*
- 2) *Dedicated Hosting*
- 3) *Virtual Private Server*

Domain Name Registration

Eg: www.panangadvhss.com

FTP Client Software

Transfer Website Files to Web server

Site Administration

What is Web Hosting?



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





HOME

To upload **Photos**,
we can use

To upload **Videos**,
we can use

To upload **Website**,
we can use



Web Host



Web Server



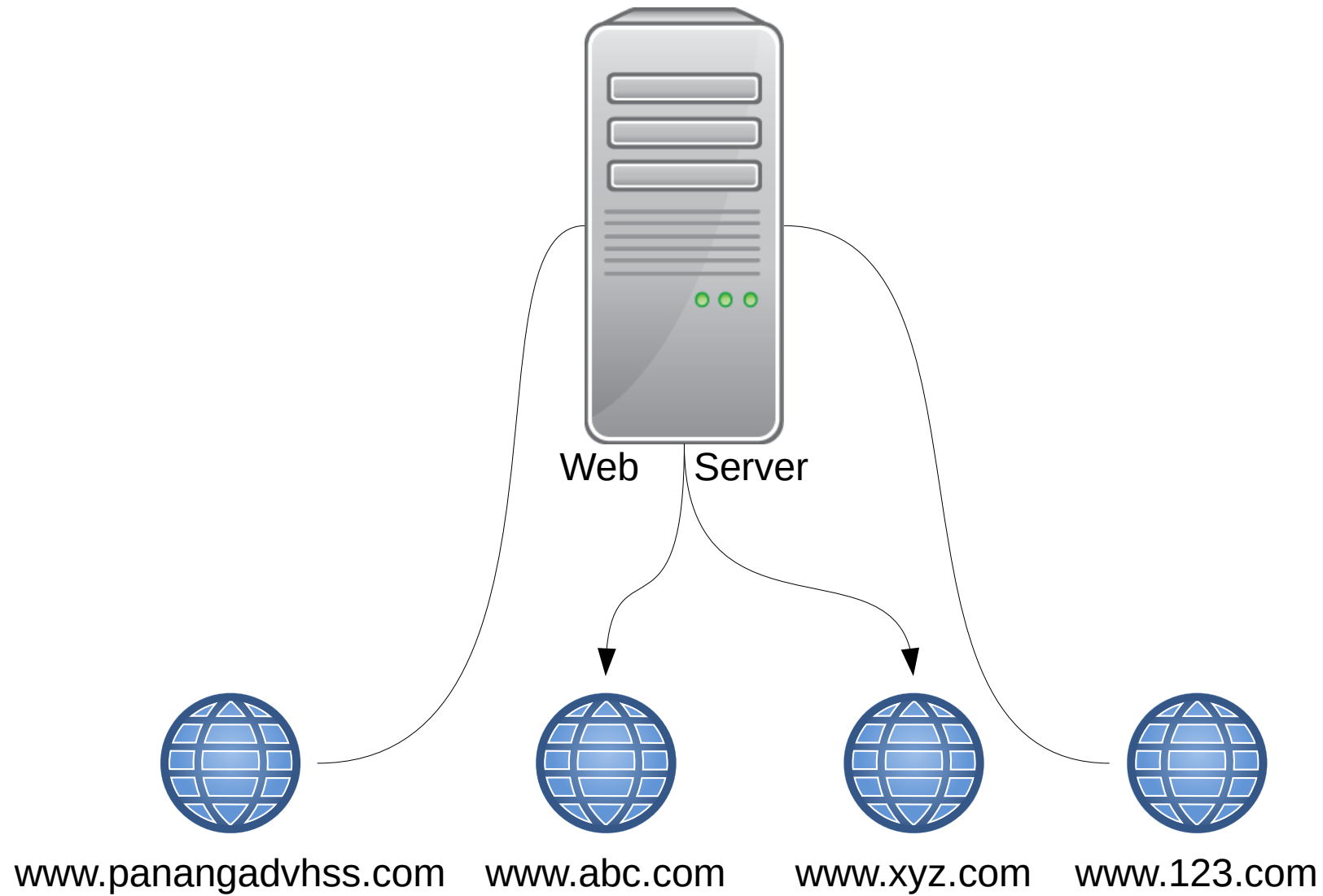
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Explain different types of web hosting?



- 1) Shared hosting** : It is the **cheapest** option for web hosting. Here many different websites are stored in one single web server and they **share the resources like RAM , CPU, Bandwidth** etc. It is **easy to use** but if any web site using the server use more traffic then it **slow** down all other websites.
 - 2) Dedicated hosting** : It is **expensive** but the entire web server is assigned to the website. The client has the full freedom to choose the hardware and software for the server and **full control** over the web server.
 - 3) Virtual Private Server(VPS)** : It is a physical server that is virtually partitioned in to several servers using **virtualization technology** with softwares like FreeVPS, Virtualbox etc. VPS provide dedicated amount of RAM , Bandwidth etc . Each VPS works as fully independent servers. **Its cost is less than dedicated server.**
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Shared Hosting



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Dedicated Hosting



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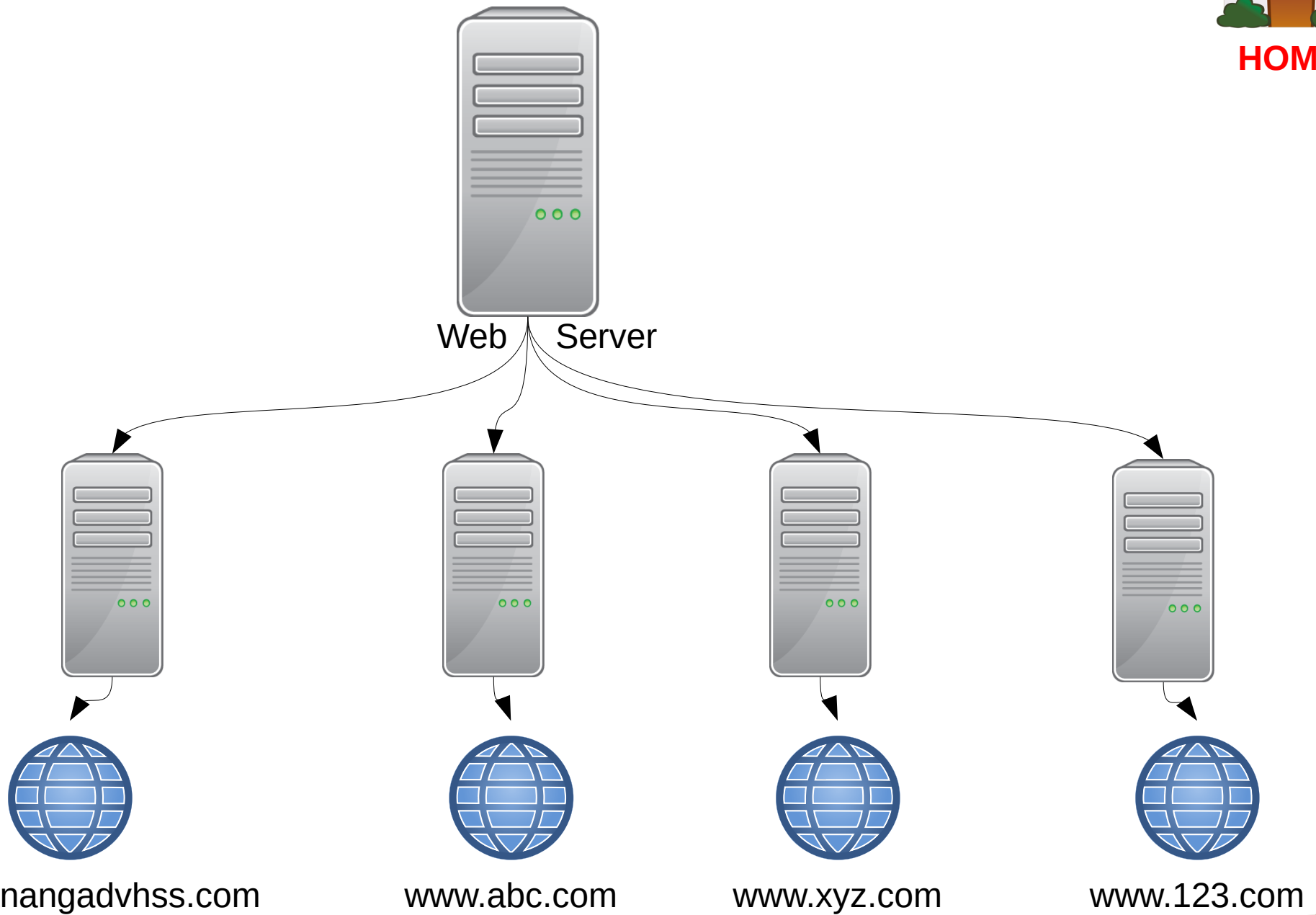
Web Server



www.google.com

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Virtual Private Server(VPS)



List the factors that decide the type of web hosting



- a) Amount of storage space needed.
- b) The number of visitors expected to visit the website
- c) The use of resources like database, programming support etc..



- Q1) A supermarket wishes to take its business online. It plans to accept orders for its products through a website and receive payments online?
 - a). Which type of hosting is suitable for this website?
 - **ANS:** Virtual Private server(VPS) is suitable for this.
 - b). Explain the reason for your choice?
 - **ANS:** Cost is less compared to dedicated server. Online payment requires secure transfer. By using VPS , we can set up our own security measures compared to shared hosting.
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- **Q1) What is Domain name? What is domain name registration?**
- **ANS: Domain names** are used to identify a web site on the internet (www.google.com). Most web hosting companies offer domain registration facility. The domain name chosen must be unique.



- **Q2) How to get information about any website?**
 - **ANS:** The website www.whois.net which checks domain name with ICANN(Internet Corporation for Assigned Names and Numbers) database.
 - **Q3) What is WHOIS ?**
 - **ANS:** **WHOIS** information contains the name , address, telephone number and e-mail address of the registrant.
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- Q4) What is **A record** ?
- It is used to store the IP address of a web server connected to a domain name. The 'A record' can be modified by logging into the control panel of the domain.

What is FTP Client Software ?



- **File Transfer Protocol (FTP)** is used to transfer files from one computer to another in a network.
- In web hosting, an **FTP client software** is used to transfer files of our website from our computer to the web server. Eg. **FileZilla, CuteFTP, SmartFTP** etc..
- **What is SFTP ?**
- **ANS:** For secure transfer **SSH FTP (SFTP)** is used. It encrypts and send information like user name password etc ..

What is Free Hosting or blogs?



- Free hosting provides web hosting services **free of charge**. The service provider displays **advertisements** to meet the charges. They may have some **restrictions** like amount of storage, types of files etc.
- Free hosting services usually provide either their own **sub domain**(our sitename.host.com) or **directory** service(www.host.com/oursitename).
- Eg: www.panangadvhss.wordpress.com

What is Content Management System (CMS) ?

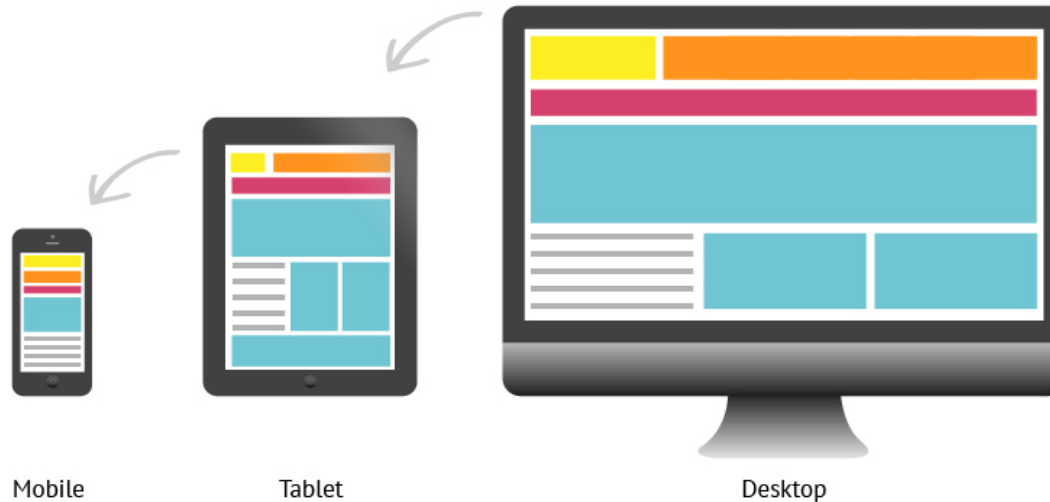


- It is a **web based software** system which is capable of **creating, administering and publishing web sites**.
- It provide **easy** way to design and manage attractive web pages.
- It is **economical** and easy way to develop a web sites.
- Some popular CMS software are **WordPress, Drupal, Joomla etc.**

What is Responsive web design ?



- Responsive web design is the custom of building a website suitable to work on every device and every screen size.



Previous Questions



- 1. Identify the odd one :
(a) Word Press (b) File Zilla (c) Joomla (d) Drupal
 - **Ans :** (b) File Zilla
 - 2. What type of hosting package is suitable for a multinational online shopping site? Mention any two advantages of the package.
 - **Ans :** Dedicated hosting It is expensive but the entire web server is assigned to the website. The client has the full freedom to choose the hardware and software for the server and full control over the web server.
 - 3. What is the need of registering a domain name for a website ?Explain the procedure of domain name registration.
 - 4. What is SFTP ?
 - 5. provide an easy way to design and manage attractive websites.
(a) Free hosting (b) CMS (c) WHOIS (d) FTP
 - **Ans:** b
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- 6. Compare shared hosting and VPS
 - 7. Amitha wanted to get the name 'www.smartproduct.com' for her newly designed website. How is it possible?
 - 8. Ajith created a website using the software 'Joomla'. What is the peculiarity of this software and write any four advantages of using this software.
 - 9. A designed website has to be uploaded into
To make it available to the internet users all over the world.
 - **Ans:** Web Host
 - 10. Differentiate shared and dedicated web hosting.
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- 11. What is CMS ? Give two examples
- 12. What are the merits and demerits of free web hosting ?
- 13. Define web hosting ?
- 14. What is responsive web design ?

