WEB HOSTING

SAMITHA SOMATHILAKA

Department of Computing & Mathematics, WIT

STEPS TO BUILD A WEBSITE

👉 Register a domain name

🏗 Design and build the site
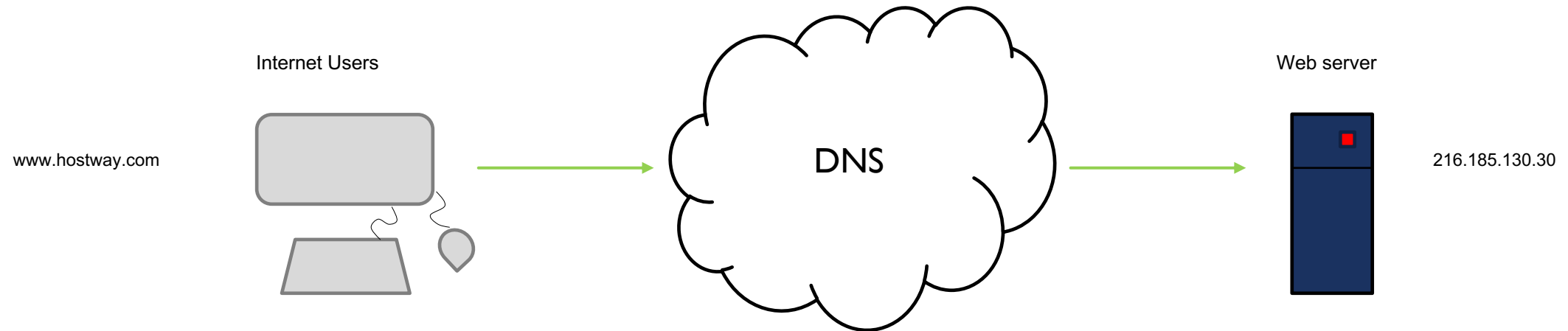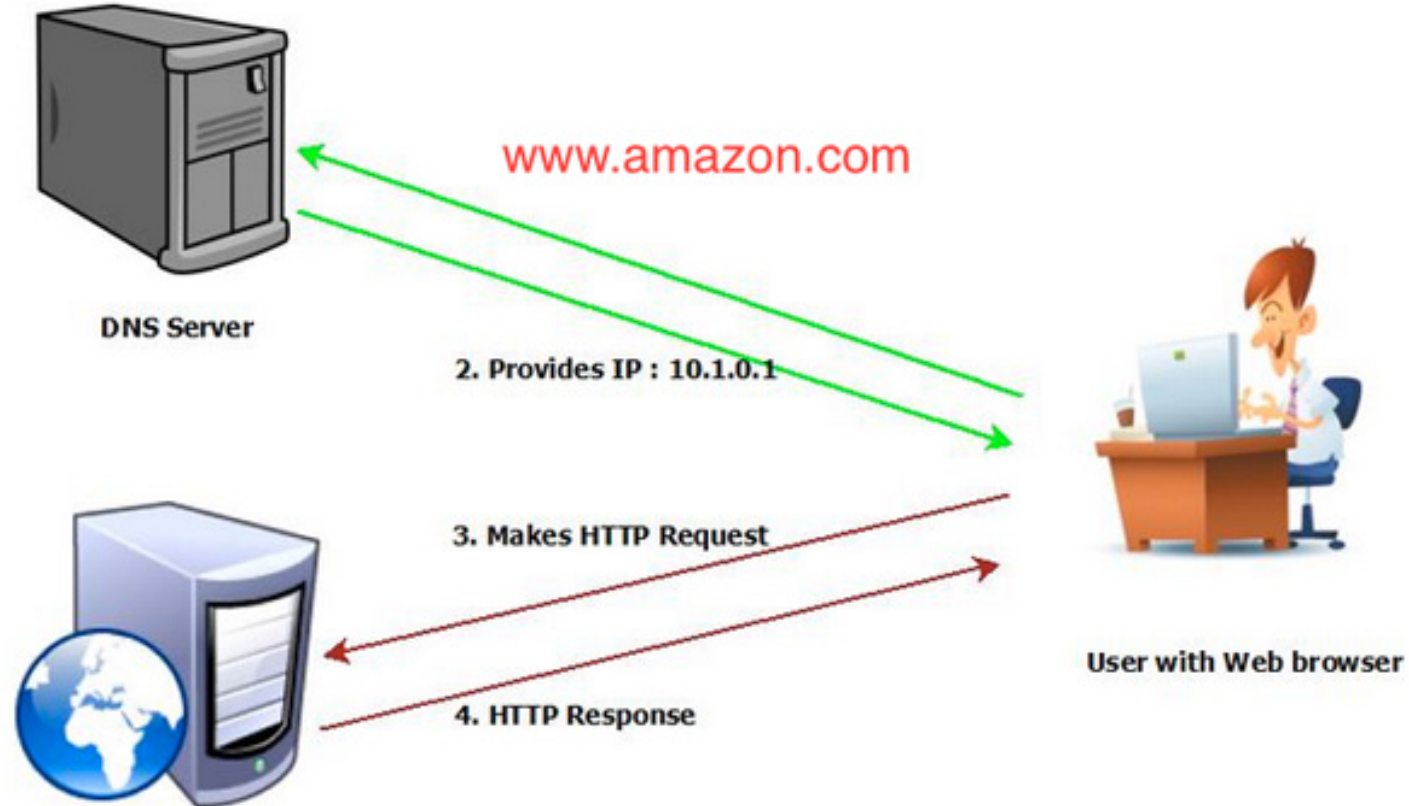
📍 Find someplace to host the site

📰 Publish the site

DNS – DOMAIN NAME SYSTEM

The domain name www.hostway.com is <u>translated</u> into numbers.

Internet Users

www.hostway.com

DNS

Web server

216.185.130.30

DNS – DOMAIN NAME SYSTEM

The domain name www.hostway.com is <u>translated</u> into numbers.

STEP 1: REGISTER A DOMAIN NAME

Choosing a proper domain name

- Make it short

- Be search-engine friendly

- Don't use the words that sound the same but have different spellings

- Avoid numbers and capital letters

STEP 1: REGISTER A DOMAIN NAME

Register a Domain Name …

- Purchasing and registering your Domain Name

- Have to go to a domain registrar, pay a registration fee for that name

- Name will active name for a year, and have to renew it.

STEP 2: DESIGN AND BUILD THE SITE

- Create the site yourself

- Hire a Web Designer to build the site

- Use a Site Builder tools/templates

STEP 3: FINDING A HOST

- A web host provides you with the tools, space and support to create your web pages and email accounts

- It's where you go to build, maintain, and publish your web pages

- Internal or External hosting
  - Internal
    - You house and maintain the server
    - Typically more expensive
    - Requires experienced technical knowledge
  - External
    - Someone else owns and maintains the server
    - Multiple websites on the same server
    - Most internet service providers (ISPs) offer hosting services.

ARE DOMAIN NAME AND WEB HOSTING THE SAME?

Often, internet newbies cannot tell the difference between a domain name and web hosting.

Domain Name – The Address

Hosting – The Land

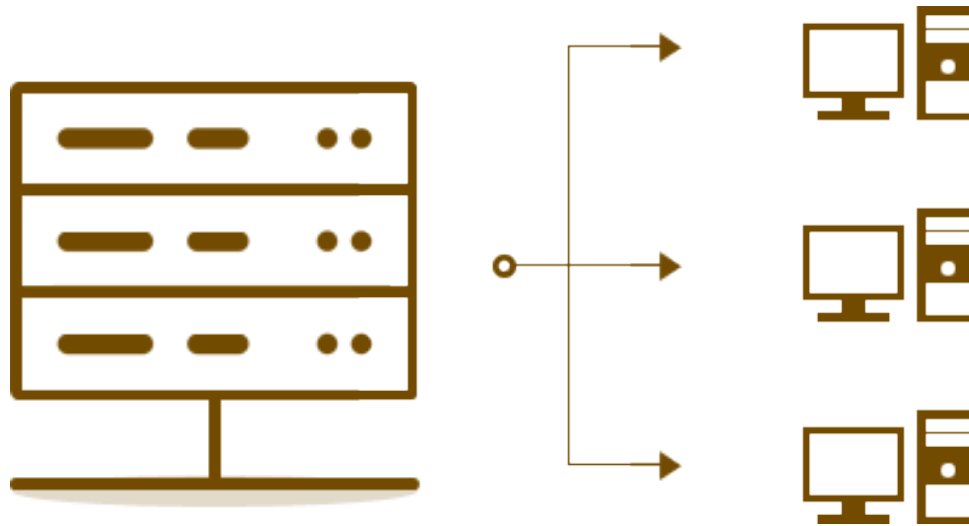**Website – The House**

DIFFERENT HOSTING TYPES

SHARED HOSTING

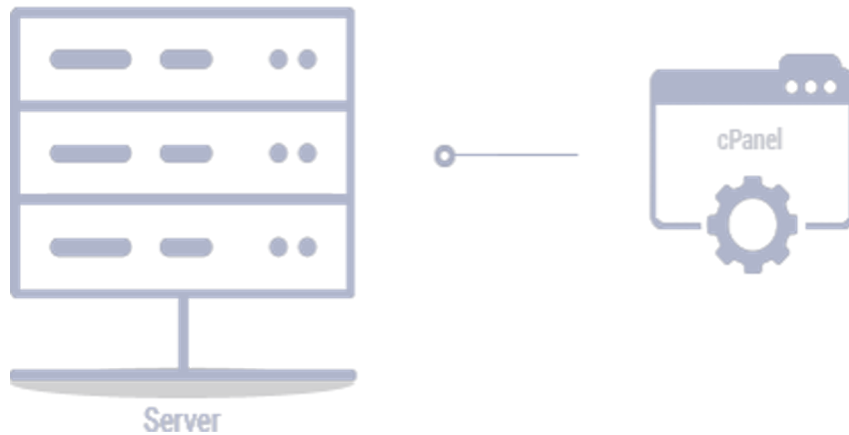VPS HOSTING

DEDICATED HOSTING

CLOUD HOSTING

RESELLER HOSTING

SHARED HOSTING

One's website is placed on the same server as many other sites, ranging from a few to hundreds or thousands. Typically, all domains may share a common pool of server resources, such as RAM and the CPU. It is not only the most popular, but also the most affordable web hosting plan.

DEDICATED HOSTING

COST	★ ★ ★ ★	
PERFORMANCE	★ ★ ★ ★ ★	
SECURITY	★ ★ ★ ★	
SKILL REQUIRED	★ ★ ★	
SERVER CONTROL	★ ★ ★ ★ ★	

VPS HOSTING

COST	☆ ☆ ☆ ☆
PERFORMANCE	☆ ☆ ☆ ☆ ☆
SECURITY	☆ ☆ ☆ ☆
SKILL REQUIRED	☆ ☆ ☆
SERVER CONTROL	☆ ☆ ☆ ☆ ☆

In this hosting plan, a server is divided into multiple virtual units
and each unit acts as a dedicated server that hosts only one website.

CLOUD HOSTING

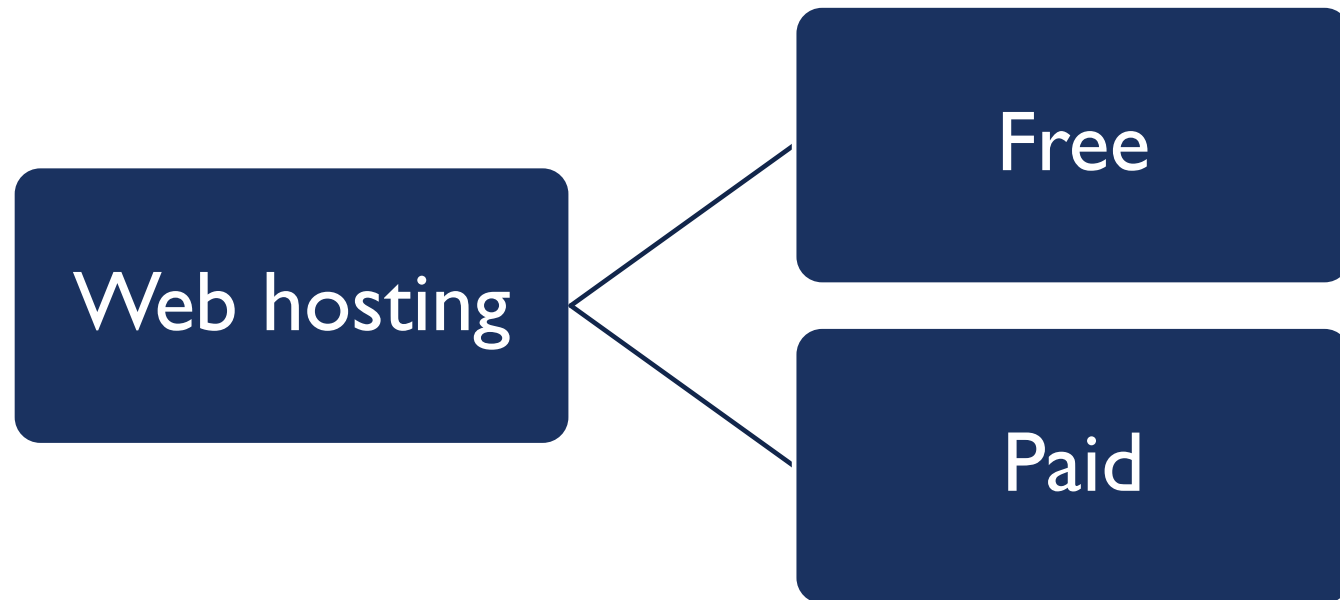|	
COST	☆ ☆ ☆ ☆
PERFORMANCE	☆ ☆ ☆ ☆ ☆
SECURITY	☆ ☆ ☆ ☆
SKILL REQUIRED	☆ ☆ ☆
SERVER CONTROL	☆ ☆

This is a new type of hosting platform that allows customers powerful, scalable and reliable hosting based on clustered load-balanced servers and utility billing. A cloud hosted website may be more reliable than alternatives since other computers in the cloud can compensate when a single piece of hardware goes down.

RESELLER HOSTING

This hosting plan, allows clients to become web hosts themselves. Resellers could function, for individual domains, under any combination of these listed types of hosting, depending on who they are affiliated with as a reseller.

ANOTHER HOSTING CATEGORIZATION

FREE HOST SERVERS

There are plenty of places on the internet which will host web site for free. These may include:

- **Advertising banners.** Most free services make their money by inserting advertisements into your pages.

- **No domain hosting and ugly URLs.** Free hosting doesn't usually allow you to use a domain name (eg www.myname.com). You will instead be assigned an address which could be very long and difficult to remember.

- **No support.** If anything goes wrong or if you need any help, don't hold your breath.

- **Limited features.** You will find that certain features aren't allowed.

- **No guarantee of service.** From time to time free hosts simply shut down, either temporarily or permanently.

FREE WEB HOSTING

- https://www.000webhost.com

- www.geocities.yahoo.com

- www.freewebs.com

- www.topcities.com

- www.angelcities.com

- Or search for free web hosting

PAID HOST SERVERS

STARTER
only $19.95

- 1GB Web Space
- Unlimited Bandwidth
- 10 Email Accounts
- No Set Up Fee
- 24/7 Live Support

Order Now

BUSINESS
only $34.95

BEST VALUE

- 10GB Web Space
- Unlimited Bandwidth
- 100 Email Accounts
- No Set Up Fee
- 24/7 Live Support

Order Now

ENTERPRISE
only $59.95

- 100GB Web Space
- Unlimited Bandwidth
- Unlimited Email Accounts
- No Set Up Fee
- 24/7 Live Support

Order Now

PAID HOST SERVERS

- Bluehost
- InMotion Hosting
- HostGator
- Hostinger
- GoDaddy
- Tsohost
- Wix
- SiteGround
- Hostwinds
- Weebly

STARTER only $19.95

- 1GB Web Space
- Unlimited Bandwidth
- 10 Email Accounts
- No Set Up Fee
- 24/7 Live Support

Order Now

BEST VALUE

BUSINESS only $34.95

- 10GB Web Space
- Unlimited Bandwidth
- 100 Email Accounts
- No Set Up Fee
- 24/7 Live Support

Order Now

ENTERPRISE only $59.95

- 100GB Web Space
- Unlimited Bandwidth
- Unlimited Email Accounts
- No Set Up Fee
- 24/7 Live Support

Order Now

STEP 4 : PUBLISHING THE FILES

- Transfer your files from your computer onto your hosting. (Such as web page,images, media, etc)

- Use FTP to transfer your files.

MAINTAIN A WEBSITE

HOW TO MAINTAIN A WEBSITE ?

Website Updates

Website Content

- Product Updates

- Company News

HOW TO MAINTAIN A WEBSITE ?

Backing Up Your Website

- Backing up your website is something you should do all the time, especially if you are the type that uses the online interface of your store or blog to make changes.

- Things happen. Even though the web hosting company says they backup the sites on their servers, their last backup could have been before your last edit.

- If the server crashes for some reason or your site gets hacked, your edits will be gone if the web hosting company restores what they had backed up.

HOW TO MAINTAIN A WEBSITE ?

Monitor Website Outages

- If your site goes down, you want to be the first to know and not receive an email from someone else they can not access your site.

- **SiteUp** is a small program that runs on your computer in the background checking your site on a regular basis.

- It will notify you when the site is down with a popup.

- Obviously though, your computer has to be on for it work.

HOW TO MAINTAIN A WEBSITE ?

Test Website Speed

- Testing the <u>download speed</u> of your site regularly is important.

- Especially if you have added a new feature.

- Web surfer have a very short attention span.

- If your site is slow to load, they are not going to wait.

- You need to do everything you can <u>to improve the download speed</u> of your site or blog so visitors stay to read your content and hopefully provide you with <u>organic incoming links</u> by spreading the word for you what a wonderful site you have.

HOW TO MAINTAIN A WEBSITE ?

Software Updates

- Third party software, like your ecommerce software, WordPress and Joomla for example, are always updating their software.

- You need to keep on top these updates and install them as soon as they come out.

- The updates won't just be new features, they will include security updates too.

HOW TO MAINTAIN A WEBSITE ?

Keep your site secure

- There are evil trolls out there ready to hack into your site, hold it hostage so they can sell it back to you at an exorbitant price, steal information, etc.

- Tools like Sucuri and Wordfence get the job done.