



Videos - Web Hosting Set Up - <http://youtu.be/ugovCHtXxAs> (6 min)
- FTP using FileZilla - <http://youtu.be/qPpbAvbmcHE> (7 min)

Web Hosting / Web Publishing

To make your Website visible to the world, it has to be hosted on a Web server host. Web hosts are companies that provide space on a server that you can rent on a monthly or yearly basis.

There are three types of hosting:

- shared (also called virtual) - a server hosts many sites on the same machine or computer. - **most common**
- dedicated - only one site is being hosted on the machine
- co-located - your own computer is configured with web server software and you locate it with the web host's machines in order to take advantage of the bandwidth, security etc.

Things to consider when choosing a Web Host

Support

Make sure your Web host offers 24-hours support. Toll-free phone could be vital if you don't want to pay for long distance calls.

Daily Backup

Make sure your Web host runs a daily backup routine, otherwise you may lose valuable data.

Traffic / Bandwidth Allowed

Know the Web host's traffic or Bandwidth restrictions. Make sure that you don't have to pay a fortune for unexpected high traffic if your web site becomes popular. An average web site can consume between 1GB and 5GB of data transfer per month. You can calculate bandwidth as page size X page views per month. For example if your page size is 10KB and you expect 10,000 page views per month, you will need $0.01\text{MB} * 10,000 = 100 \text{ MB}.$

Content Restrictions

See if there are any restrictions as to the content allowed.

Disk Space

The average size of an HTML web page is very small. But the size of the images used inside

these pages, and audio, video, or pdf files are much larger. Usually, you are given more space than you will ever need.

Domain Name

If your Web host cannot register the domain name (assuming you wish to have your own custom web address), then you will need to register it with another service and configure it with your Web host.

E-mail Capabilities

Make sure your Web host offers the e-mail capabilities you need. You will want to have an email address that matches your domain name, if you register a domain name.

Sub-domain / Aliases

Does the Web host offer the ability to have sub-domains or both web and email aliases?

Server Side Technologies

If you plan to use a server technology such make sure that the Web host supports it.

Below are some of the commonly used server technologies:

- php
- asp
- jsp
- cgi
- MS SharePoint
- Dreamweaver
- SSL
- E-commerce

Types of Server

Based on the technologies you are using, you may need to choose either a Unix/Linux or Windows server. **Unix/Linux is more common and is Case Sensitive!**

Database Access

If you plan to use data from databases on your web site, make sure the Web host supports the database access you need.

Some common databases are:

- SQL Server
- Oracle
- My SQL
- Access

Domain Names

A domain name is a custom website address and must be registered with a domain name registrar. The web host usually is a registrar also. When domain names are registered, they are added to a large domain name registry which is located on a DNS server.

DNS stands for Domain Name System. A DNS server is responsible for informing all other computers on the Internet about the domain name and the web site address.

When choosing a name, it is important to consider the purpose of a domain name, which is to provide an easy way to reach your web site. A short domain name is easier to type, read, and remember. Select a domain that relates to your site in a way that people will understand. Avoid a name that is difficult to spell or pronounce. Using hyphens or underscores in a domain name is allowed, but hard to remember. Domain names are not case sensitive.

Sub domains do not need to be registered with a domain name registrar. Examples of sub domains used on the Internet are <http://store.apple.com> and <http://support.microsoft.com>. Sub domains can be set up by the web host.

Domain Name Registrar

You can register your domain name with any domain registrar, such as godaddy.com or registrar.com. Most web hosting service also provide this service. You will be given a unique static IP address to identify your URL.

Understanding Your Hosting Account

When you sign up for a hosting account, you will be given or can choose a URL from the agency or you can register your own custom domain name.

Root Folder

You will be given a folder on the server in which to store your web files. When the user types in your web address in the browser, the DNS server will translate the name to an IP address, the router will find the web server, and it will go to your folder. This folder is the main folder for your files and is the “root” folder. All of your files and folders will be placed under this folder. It does not matter what it is called, it is the root or main starting point.

A common name for your root folder is “public_html”.

Relative Paths

It is important to create your web files in a folder and to have all other files and folder under it, using relative paths. In that way, when you upload your files from your computer to the server, all the links and images will work.

Case of File / Folder Names

Remember that UNIX/Linux servers are case sensitive, so your names must have the same case structure.

Default File Names for Home Page / any folder

The web server will load the “default: page if it finds it. If not, it will load whichever page was specified in the URL. In every folder, there is a default file which will automatically load if the path to that folder is specified. **The most common file name is “index.html”.**

Actually, there are several “default” files that the server will search for and load if found. Some of these are:

- index.html
- index.htm
- default.html
- default.htm
- home.html
- home.htm
- index.php / default.php
- index.aspx / default.aspx

How to Upload Files to a Web Host / Server

Many web servers have a control panel that not only allow you to manage your account, but to also upload files. The protocol that allows us the upload files to a server is called **FTP** - file transfer protocol.

You can also upload files using an FTP program such as [SmartFTP](#) or [Filezilla](#). These programs actually are sometimes easier to use than the built in FTP programs in the control panel.



Note: Web hosting accounts usually have a separate login for ftp. You will have the primary account login for the administration of the account.

Set up an Account - Optional

Setting up a Web Hosting Account

The below steps will take you through the process of setting up a hosting account on a free server - **000WebHost.com**. Another good free server is **X10hosing.com**.

Make sure that you write down your login name, email account used, password, and website URL. Note that this is the login for the account. You will usually have a separate login to FTP.

This is a Unix server so your files are case sensitive!

1. Go to www.000webhost.com



2. Choose a free account.

	» Free Hosting	» Premium Hosting
Price	\$0.00	\$4.84 / month
Disk Space	1500 MB	Unlimited Disk Space!
Data Transfer	100 GB / month	Unlimited Data Transfer!
Add-on Domains	5	Unlimited
Sub-domains	5	Unlimited
E-mail Addresses	5	Unlimited
MySQL Databases	2	Unlimited
Free domain yourname.COM, NET, ORG, INFO, CO.UK		✓
Control Panel	Custom Panel	cPanel Pro, see demo
Reseller Hosting Feature		✓
	 Order Now	Order Now

3. Fill out the form. You will choose a subdomain for your website address.

Your address will be (example) - <http://yourchoice.host56.com>



Order Free Web Hosting

I want to host my own domain (domain must be registered already)

www.

or, I will choose your free subdomain (recommended)

www. .comuie.com

4. You will receive an email message with a link to confirm, in order to activate the account.

5. **HOW TO LOGIN:** Return to www.000webhost.com and log in. you will click on the link to the "Members Area" in the right hand column, to go to the log in page.



6. Enter your email address, password and the code.



Please login to your account

Your email

Password

Enter the symbols you see in the image


(reload image)

* Password is invalid or session expired


7. You will see your account details and a link that takes you to the control panel (CPanel).



List of your domains

» Domain	» Status	» Action
web119.comule.com	Active	Go to CPanel

If you like our free hosting services you can help us in any of these 3 ways

 Put a link from your website
You can help us by putting a link from your website to <http://www.000webhost.com/>, get HTML code [here](#).

» Customer Details	
Name	Teresa Pelkie
Email	tpelkie@gmail.com
Registration	2011-10-13 20:22
Account Status	Active
Last Login From	88.108.49.131
Location	United States

8. Next you will be taken to the control panel, where you will see many applications to configure and manage your account. Choose a file manager or the ftp icon to upload your files.

Manage another domain
cswb110.comule.com

» Main Menu

View Account Details | Getting Started Information | Frequently Asked Questions | Change Account Password | Upgrade Account!

» Domains

Subdomains | Parked Domains | Add-on Domains | Domain Tools | Website Promotion Guide

» Get a Premium Domain Name!

Get YourDomain.com for free!

Enter domain name, for example yourdomain.com
www. .com

* Order our paid hosting service and we will register a personal domain name for you and give unlimited disk space / bandwidth for your website! Get learn more check our upgrade page or go to our premium hosting website www.Hosting24.com directly.

» Email

Manage Email Accounts | WebMail | Email Forwarders | Modify MX Record | More Email Services

» Useful Stuff

1-Click Website Restore | 1-Click Database Restore | Website Templates | Website Stats | Stats Tracking Code

» Files

View FTP Details | File Manager | **Another File Manager** | Disk Space Usage | Backups

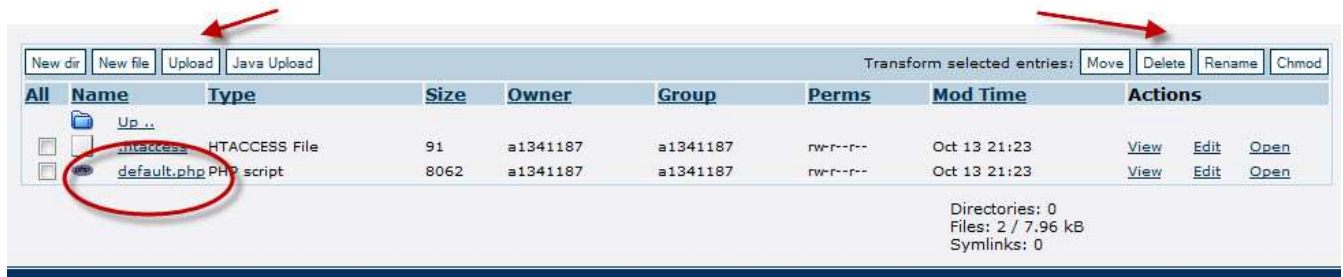
» Account Information

Domain	cswb110.comule.com
Username	a1341187
Password	*****
Disk Usage	0.02 / 1500.0 MB
Bandwidth	100000 MB (100GB)
Home Root	/home/a1341187
Server Name	server48.000webhost.com
IP Address	31.170.160.112
Apache ver.	2.2.19 (Unix)
PHP version	5.2.*
MySQL ver.	5.1
Activated On	2011-10-13 20:23
Status	Active

9. I am using the middle icon, the “File Manager.” You will upload the files to the “**public_html**” directory / folder. you will double click to get into the folder.



10. Notice that there is a “default” home page file already there - default.php. There are commands to manage the files when the file is checked in the box to the left of its name.



10. You will upload a file by clicking on the “Upload” button on the top left. Make sure you are uploading to the proper directory / folder.



11. Now test the URL in the browser to see if the files are displayed. This is what the website will look like BEFORE you upload files. This is the default home page - default.php.



11. You can also use a third party FTP program to upload and manage your web files. You will need to configure this applications with the **host address, login, and password**. They can be found in your account information.

FTP Login and Upload Details

FTP Accounts allow you to access your web site's files through a protocol called FTP. You will need a third party FTP program to access your files. If you do not know anything about FTP you may use our web based [File Manager](#) to upload your files.

FTP details for webd162.host56.com

FTP host name	webd162.host56.com
FTP user name	a3907408
FTP password	*****
Folder to upload files	public_html
Forgot FTP password?	Change account password
Recommended FTP clients	SmartFTP or FileZilla

Account Information

Domain	webd162.host56.com
Username	a3907408
Password	*****
Disk Usage	0.02 / 1500.0 MB
Bandwidth	100000 MB (100GB)
Home Root	/home/a3907408
Server Name	server32.000webhost.com
IP Address	31.170.160.96
Apache ver.	2.2.19 (Unix)
PHP version	5.2*
MySQL ver.	5.1
Activated On	2012-03-18 19:54

Web Accessibility

About 20% of the population has some type of disability, the main type being a visual disability. Visually disabled individuals commonly use a "screen reader: to read the information to them, as they have difficulty seeing.

Section 508 of the Americans with Disabilities Act (ADA), released in 1998, requires that any electronic information maintained, developed, or used by the federal government be accessible to people with disabilities. This includes the web!

See also:

- <http://www.ada.gov>
- <http://section508.gov>
- www.w3.org/WAI

There are some guidelines and techniques that you can use to make your website easy to be read by the screen readers.

1. Use good markup structure - html5 semantic structural elements
2. Write clean, correct code
3. Use the "alt" attribute in the tag and in an image map
4. Use stylesheets for the presentation, so that the document can still be read without them
5. Provide text links with an image map
6. Be careful with contrasting color
7. Do not use color to convey meaning
8. Use tables only for tabular data
9. Use column and row headings in tables
10. Audio files must be accompanied by a transcript
11. Video files must be close captioned
12. Allow the user to skip repetitive navigation links - page 812
13. Provide a text equivalent for things, such as flash, that cannot be accommodated

Test your site / pages:

- <http://wave.webaim.org>

Validating Your Website / Files

There are several online validators that will check to see if your code conforms to the HTML5 or CSS specifications.

Also, many browsers have add-ons that will validate the code of the current website that you can install.

- W3C HTML validator- <http://validator.w3.org/>
- W3C CSS validator - <http://jigsaw.w3.org/css-validator/>
- Specifically HTML5 validator - <http://html5.validator.nu/>