



XAMPP

Install & Create a Virtual Host

# WHAT IS A WEB SERVER

A Web Server, on the hardware side, is a computer that stores web server software and a web sites component files (js, css, images, etc).

The server connects to the internet and distributes web pages as they are requested.

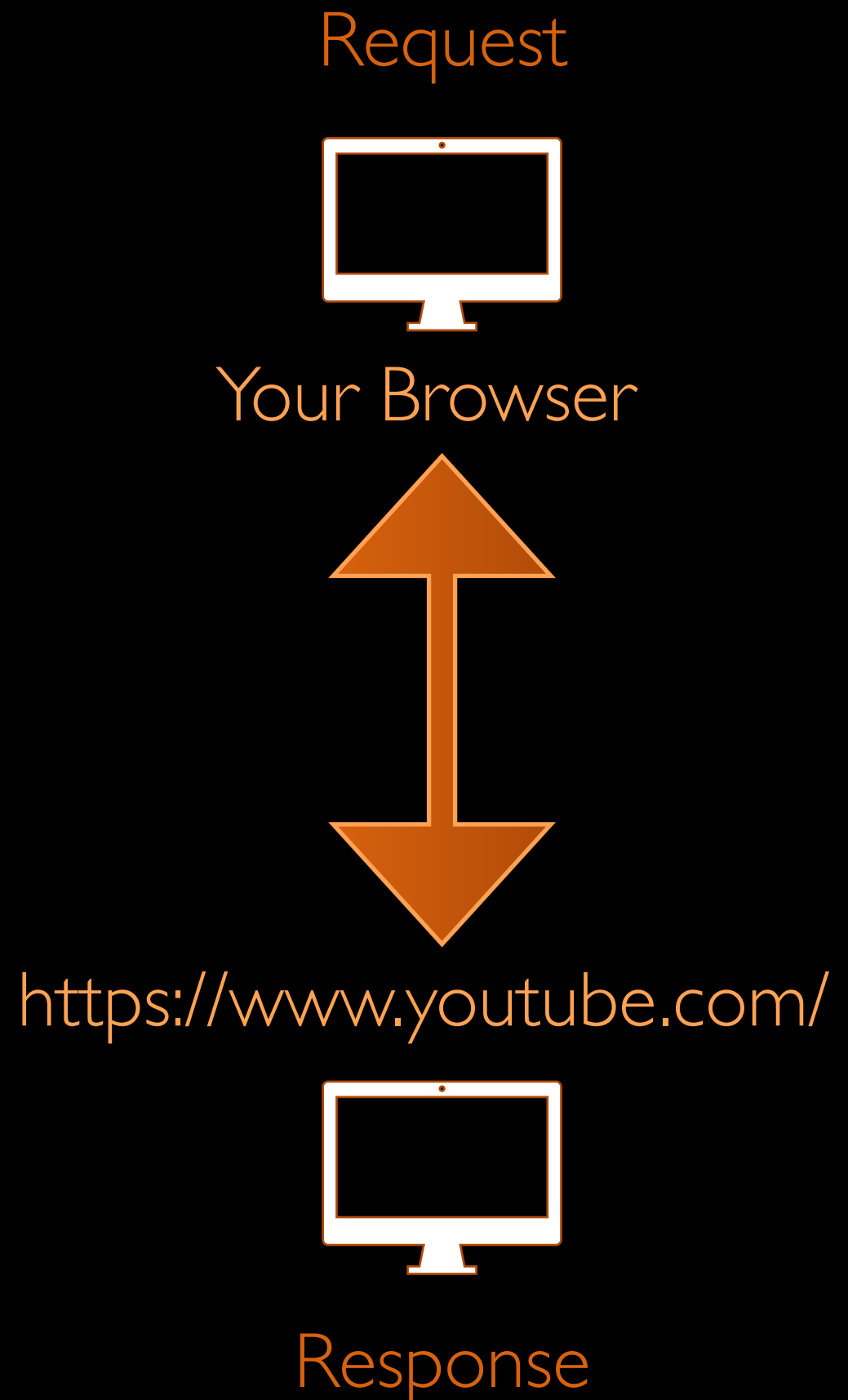
The basic objective of the Web Server is to store, process and deliver web pages/sites and its resources to the end user.

This inter-communication is done using the HTTP (Hypertext Transfer Protocol)

When you type an address into the address bar of your favorite browser you are making a request.

The webpage you request sits on a server (a folder on a computer)

That request gets sent out and you get back a response, the web page you requested



# WHAT IS XAMPP

XAMPP which stands for

X - cross platform

A - apache - web server software

M - MariaDB as of 5.5.30 and 5.6.14

P - PHP (Hypertext Preprocessor)

P - Perl - refers to Perl 5, similar in syntax to the C language, from 2000 to 2019 it was redesigned next version named Perl 6, then the name was officially changed to Raku in October 2019

Developed by Apache Friends XAMPP is free and open sourced web server solution stack package

# XAMPP

The main XAMPP configuration files are located as follows:

Apache configuration file: /Applications/XAMPP/xamppfiles/etc/httpd.conf,  
/Applications/XAMPP/xamppfiles/etc/extra/httpd-xampp.conf

PHP configuration file: /Applications/XAMPP/xamppfiles/etc/php.ini

MySQL configuration file: /Applications/XAMPP/xamppfiles/etc/my.cnf

ProFTPD configuration file: /Applications/XAMPP/xamppfiles/etc/proftpd.conf

PhpMyAdmin configuration file: /Applications/XAMPP/xamppfiles/phpmyadmin/config.inc.php

# XAMPP

Run xampp services by command line

To start apache service

```
sudo /Applications/XAMPP/xamppfiles/bin/apachectl start
```

To start mysql service

```
sudo /Applications/XAMPP/xamppfiles/bin/mysql.server start
```

To stop Apache web server, enter:

```
sudo apachectl stop
```

To start Apache web server again, enter:

```
sudo apachectl start
```

To restart apache web server, enter:

```
sudo apachectl restart
```

# XAMPP

To run a configuration file syntax test

```
sudo apachectl configtest
```

To reload apache web server after editing the config file

First edit the config file, run:

```
$ sudo vi /etc/apache2/httpd.conf
```

Make changes as per your needs. Close and save the file. To reload new changes, run:

```
sudo apachectl graceful
```

Step 1, Find the PID of ftp server (the second column), such as 21882, 22108...

//print all processes owned by all users

```
ps ax | grep mysql
```

//print all processes owned by a user named "x"

```
ps aux | grep mysql
```

(g/re/p -- globally search for a regular expression and print matching lines)

Step 2, kill these PID

```
sudo kill -pid
```

# XAMPP

```
sudo /Applications/XAMPP/xamppfiles/xampp start
```

---

In Terminal, launch the following command:

Usage: xampp <action>

start Start XAMPP (Apache, MySQL and eventually others)

startapache Start only Apache

startmysql Start only MySQL

startftp Start only ProFTPD

stop Stop XAMPP (Apache, MySQL and eventually others)

stopapache Stop only Apache

stopmysql Stop only MySQL

stopftp Stop only ProFTPD

reload Reload XAMPP (Apache, MySQL and eventually others)

reloadapache Reload only Apache

reloadmysql Reload only MySQL

reloadftp Reload only ProFTPD

restart Stop and start XAMPP

security Check XAMPP's security

enablessl Enable SSL support for Apache

disablessl Disable SSL support for Apache

backup Make backup file of your XAMPP config, log and data files

oci8 Enable the oci8 extension

fix\_rights Resets file permissions.



# XAMPP

(Virtual Host)

```
<VirtualHost *:80>
```

```
    DocumentRoot "/Users/username/Project/"
```

```
    ServerName 127.0.0.1
```

```
    ServerAlias localhost
```

```
</VirtualHost>
```

```
<VirtualHost *:80>
```

```
    DocumentRoot "/Applications/XAMPP/xamppfiles/htdocs/"
```

```
    ServerName xampp.localhost
```

```
    <Directory "Applications/XAMPP/xamppfiles/htdocs/">
```

```
        AllowOverride All
```

```
        Require all granted
```

```
        Options Indexes FollowSymLinks
```

```
    </Directory>
```

```
</VirtualHost>
```

# XAMPP

## (Change the Hosts File)

On the Mac:

```
redwolf — sudo — 80x24
Last login: Fri Jul 15 09:01:38 on console
[redwolf@m1-mini ~ % sudo vim /etc/hosts
Password: ]
```

```
redwolf — vim - sudo — 80x24
##
# Host Database
#
# localhost is used to configure the loopback interface
# when the system is booting. Do not change this entry.
##
127.0.0.1      localhost
255.255.255.255 broadcasthost
::1           localhost
0.0.0.0        facebook.com
~
~
~
~
~
~
~
~
~
```

# XAMPP

## Misc Links:

### **OSX 10.8 Sites Folder for Web Sharing**

<https://www.youtube.com/watch?v=JW6Kla9Au4Q>

### **Install Apache, MySQL, PHP on macOS | | Big Sur and earlier macOS**

<https://wpbeaches.com/install-apache-mysql-php-on-macos-| | -big-sur-and-earlier-macos/>

<https://www.howtogeek.com/howto/27350/beginner-geek-how-to-edit-your-hosts-file/>