

PHP and MySQL Installation on MAC

Installation Guide

edureka!

edureka!

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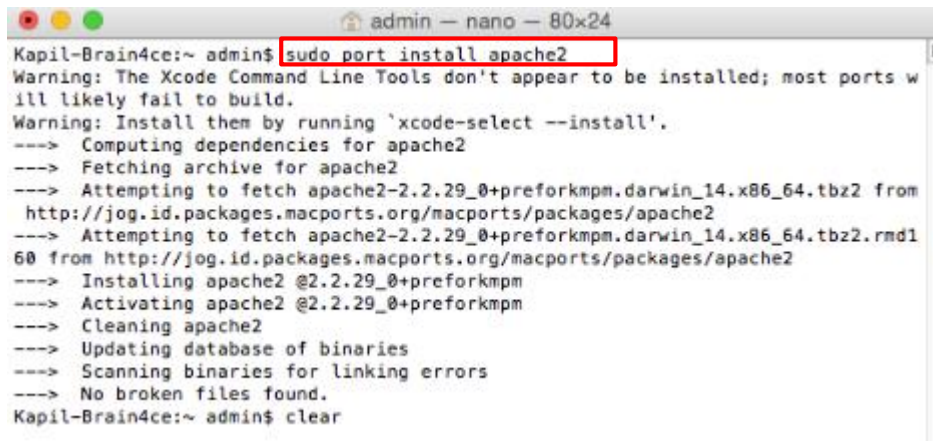
Prerequisites:

→ You must have MACPorts installed on your system

PHP Installation:

Step 1:

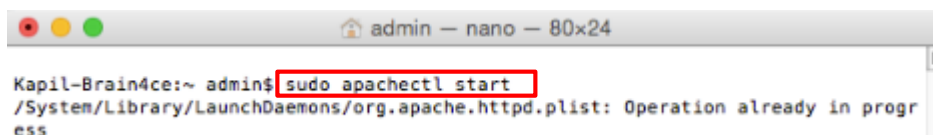
Open your terminal and type the below command to install Apache Server on your system:



```
admin — nano — 80x24
Kapil-Brain4ce:~ admin$ sudo port install apache2
Warning: The Xcode Command Line Tools don't appear to be installed; most ports will likely fail to build.
Warning: Install them by running 'xcode-select --install'.
--> Computing dependencies for apache2
--> Fetching archive for apache2
--> Attempting to fetch apache2-2.2.29_0+preforkmpm.darwin_14.x86_64.tbz2 from http://jog.id.packages.macports.org/macports/packages/apache2
--> Attempting to fetch apache2-2.2.29_0+preforkmpm.darwin_14.x86_64.tbz2.rmd160 from http://jog.id.packages.macports.org/macports/packages/apache2
--> Installing apache2 @2.2.29_0+preforkmpm
--> Activating apache2 @2.2.29_0+preforkmpm
--> Cleaning apache2
--> Updating database of binaries
--> Scanning binaries for linking errors
--> No broken files found.
Kapil-Brain4ce:~ admin$ clear
```

Step 2:

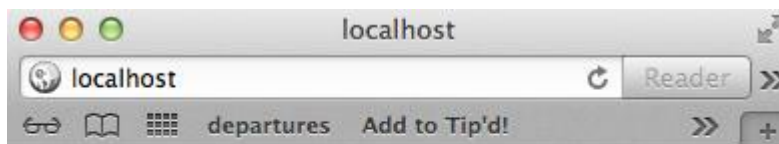
Now start the Apache Server:



```
admin — nano — 80x24
Kapil-Brain4ce:~ admin$ sudo apachectl start
/System/Library/LaunchDaemons/org.apache.httpd.plist: Operation already in progress
```

Step 3:

Now open your internet browser to check if the Apache Server is running on your system:



It works!

Step 4:

Find the Apache Server Version using the following command:



```
admin — nano — 80x24
Kapil-Brain4ce:~ admin$ sudo apachectl start
/System/Library/LaunchDaemons/org.apache.httpd.plist: Operation already in progress
Kapil-Brain4ce:~ admin$ httpd -v
Server version: Apache/2.4.9 (Unix)
Server built:   Sep  9 2014 14:48:20
Kapil-Brain4ce:~ admin$ sudo nano /etc/apache2/httpd.conf
```

Step 5:

Now let's configure the Apache to run the PHP Program

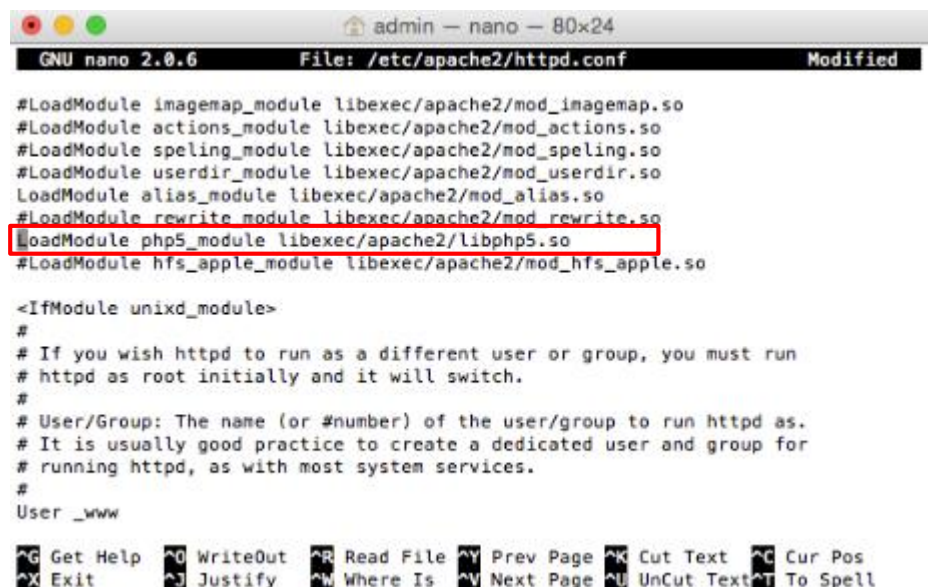
Edit your httpd.conf file to enable php. To do this type the following command in your terminal:



```
admin — nano — 80x24
Kapil-Brain4ce:~ admin$ sudo apachectl start
/System/Library/LaunchDaemons/org.apache.httpd.plist: Operation already in progress
Kapil-Brain4ce:~ admin$ httpd -v
Server version: Apache/2.4.9 (Unix)
Server built:   Sep  9 2014 14:48:20
Kapil-Brain4ce:~ admin$ sudo nano /etc/apache2/httpd.conf
```

Step 6:

You will find the below text file, where you will have to uncomment(remove # from the beginning of the line) containing "LoadModule php5_module libexec/apache2/libphp5.so" to enable PHP



```
admin — nano — 80x24
GNU nano 2.0.6      File: /etc/apache2/httpd.conf      Modified

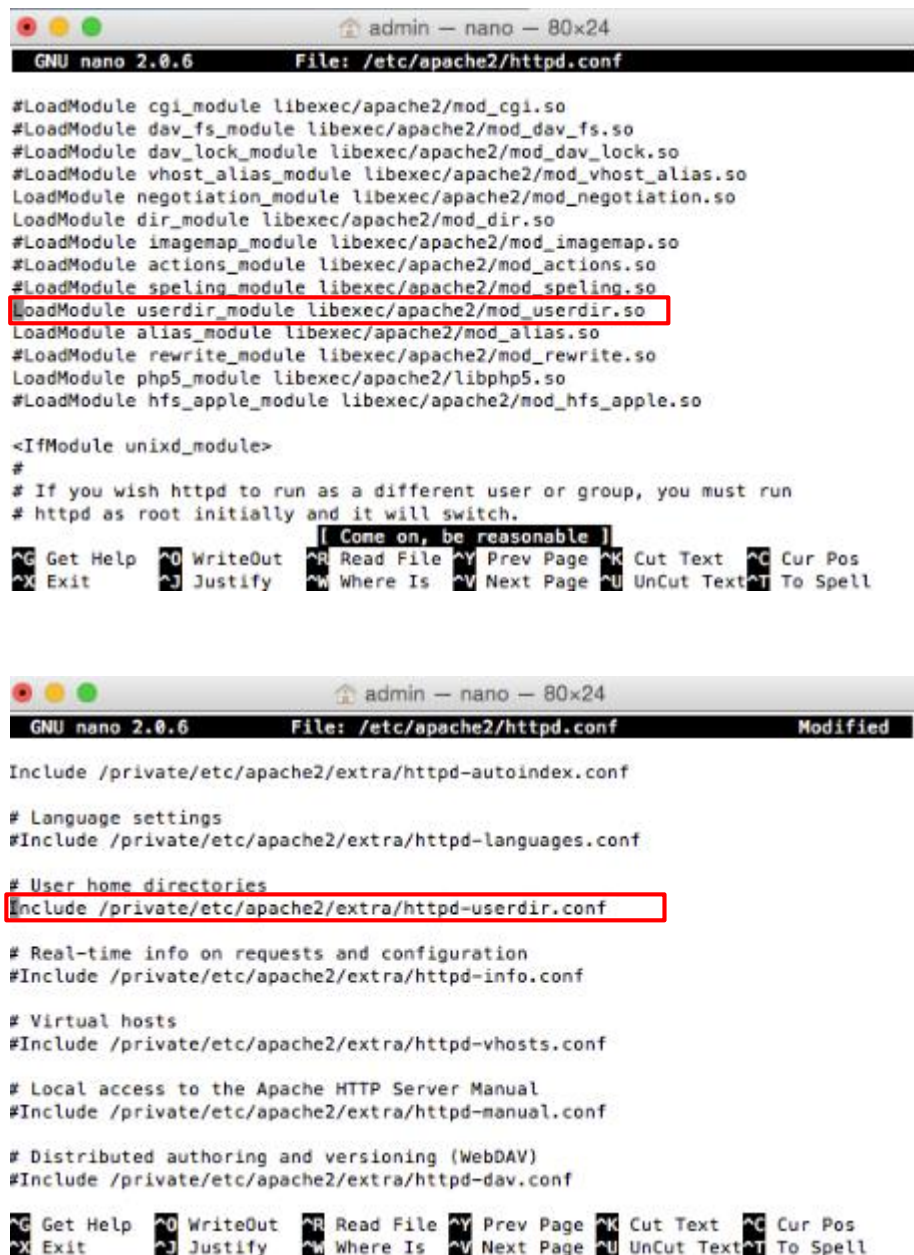
#LoadModule imagemap_module libexec/apache2/mod_imagemap.so
#LoadModule actions_module libexec/apache2/mod_actions.so
#LoadModule speling_module libexec/apache2/mod_speling.so
#LoadModule userdir_module libexec/apache2/mod_userdir.so
LoadModule alias_module libexec/apache2/mod_alias.so
#LoadModule rewrite_module libexec/apache2/mod_rewrite.so
LoadModule php5_module libexec/apache2/libphp5.so
#LoadModule hfs_apple_module libexec/apache2/mod_hfs_apple.so

<IfModule unixd_module>
#
# If you wish httpd to run as a different user or group, you must run
# httpd as root initially and it will switch.
#
# User/Group: The name (or #number) of the user/group to run httpd as.
# It is usually good practice to create a dedicated user and group for
# running httpd, as with most system services.
#
User _www

^G Get Help  ^O WriteOut  ^R Read File  ^V Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^N Next Page  ^U UnCut Text ^T To Spell
```

Step 7:

You have to uncomment 2 more lines:



```

GNU nano 2.0.6 File: /etc/apache2/httpd.conf

#LoadModule cgi_module libexec/apache2/mod_cgi.so
#LoadModule dav_fs_module libexec/apache2/mod_dav_fs.so
#LoadModule dav_lock_module libexec/apache2/mod_dav_lock.so
#LoadModule vhost_alias_module libexec/apache2/mod_vhost_alias.so
LoadModule negotiation_module libexec/apache2/mod_negotiation.so
LoadModule dir_module libexec/apache2/mod_dir.so
#LoadModule imagemap_module libexec/apache2/mod_imagemap.so
#LoadModule actions_module libexec/apache2/mod_actions.so
#LoadModule speling_module libexec/apache2/mod_speling.so
LoadModule userdir_module libexec/apache2/mod_userdir.so
LoadModule alias_module libexec/apache2/mod_alias.so
#LoadModule rewrite_module libexec/apache2/mod_rewrite.so
LoadModule php5_module libexec/apache2/libphp5.so
#LoadModule hfs_apple_module libexec/apache2/mod_hfs_apple.so

<IfModule unixd_module>
#
# If you wish httpd to run as a different user or group, you must run
# httpd as root initially and it will switch.
[ Come on, be reasonable ]
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell

Include /private/etc/apache2/extra/httpd-autoindex.conf

# Language settings
#Include /private/etc/apache2/extra/httpd-languages.conf

# User home directories
Include /private/etc/apache2/extra/httpd-userdir.conf

# Real-time info on requests and configuration
#Include /private/etc/apache2/extra/httpd-info.conf

# Virtual hosts
#Include /private/etc/apache2/extra/httpd-vhosts.conf

# Local access to the Apache HTTP Server Manual
#Include /private/etc/apache2/extra/httpd-manual.conf

# Distributed authoring and versioning (WebDAV)
#Include /private/etc/apache2/extra/httpd-dav.conf
  
```

Now save the file by holding “Control+X” and then press Y to confirm

Step 8:

Now check your Apache Version by using the following command:

```
admin — bash — 80x24
Last login: Thu Jan 22 10:29:27 on console
Kapil-Brain4ce:~ admin$ httpd -v
Server version: Apache/2.4.9 (Unix)
Server built:   Sep  9 2014 14:48:20
Kapil-Brain4ce:~ admin$
```

Now My Apache Version is 2.4.9

Step 9:

Now create a file in the terminal using:

```
admin — bash — 80x24
Last login: Thu Jan 22 13:26:32 on ttys000
Kapil-Brain4ce:~ admin$ httpd -v
Server version: Apache/2.4.9 (Unix)
Server built:   Sep  9 2014 14:48:20
Kapil-Brain4ce:~ admin$ sudo nano "/etc/apache2/users/admin.conf"
Kapil-Brain4ce:~ admin$
```

Step 10:

If you are running Apache 2.4.2+, type in the following code:

```
admin — nano — 80x24
GNU nano 2.0.6 File: /etc/apache2/users/sample.conf Modified

<Directory "/Users/username/Sites" >
  Options FollowSymLinks Indexes MultiViews
  AllowOverride All
  Require local
</Directory>
```

```
[ Cancelled ]
^G Get Help  ^O WriteOut  ^R Read File ^V Prev Page ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is  ^N Next Page ^U UnCut Text ^T To Spell
```

Now save the file and exit by pressing the “Control+X” and then confirm with the Y key

Step 11:

Set the permission of the user configuration file by typing the following command in your terminal

```

Kapil-Brain4ce:~ admin$ sudo port install apache2
Warning: The Xcode Command Line Tools don't appear to be installed; most ports w
ill likely fail to build.
Warning: Install them by running `xcode-select --install'.
--> Computing dependencies for apache2
--> Cleaning apache2
--> Scanning binaries for linking errors
--> No broken files found.
Kapil-Brain4ce:~ admin$ sudo apachectl start
/System/Library/LaunchDaemons/org.apache.httpd.plist: Operation already in progr
ess
Kapil-Brain4ce:~ admin$ httpd -v
Server version: Apache/2.4.9 (Unix)
Server built:   Sep  9 2014 14:48:20
Kapil-Brain4ce:~ admin$ sudo nano /etc/apache2/httpd.conf
Kapil-Brain4ce:~ admin$ httpd -v
Server version: Apache/2.4.9 (Unix)
Server built:   Sep  9 2014 14:48:20
Kapil-Brain4ce:~ admin$ sudo nano "/etc/apache2/users/sample.conf"
Kapil-Brain4ce:~ admin$ sudo chmod 644"/etc/apache2/users/sample.conf"
usage:  chmod [-fhv] [-R [-H | -L | -P]] [-a | +a | =a [i] [# [n]]] mode|entry
file ...
        chmod [-fhv] [-R [-H | -L | -P]] [-E | -C | -N | -i | -I] file ...
Kapil-Brain4ce:~ admin$

```

Step 12:

Now make sure the user configuration files are enables using the following command.

```

Kapil-Brain4ce:~ admin$ sudo port install apache2
Warning: The Xcode Command Line Tools don't appear to be installed; most ports
ill likely fail to build.
Warning: Install them by running `xcode-select --install'.
--> Computing dependencies for apache2
--> Cleaning apache2
--> Scanning binaries for linking errors
--> No broken files found.
Kapil-Brain4ce:~ admin$ sudo apachectl start
/System/Library/LaunchDaemons/org.apache.httpd.plist: Operation already in prog
ess
Kapil-Brain4ce:~ admin$ httpd -v
Server version: Apache/2.4.9 (Unix)
Server built:   Sep  9 2014 14:48:20
Kapil-Brain4ce:~ admin$ sudo nano /etc/apache2/httpd.conf
Kapil-Brain4ce:~ admin$ httpd -v
Server version: Apache/2.4.9 (Unix)
Server built:   Sep  9 2014 14:48:20
Kapil-Brain4ce:~ admin$ sudo nano "/etc/apache2/users/sample.conf"
Kapil-Brain4ce:~ admin$ sudo chmod 644"/etc/apache2/users/sample.conf"
usage:  chmod [-fhv] [-R [-H | -L | -P]] [-a | +a | =a [i] [# [n]]] mode|entry
file ...
        chmod [-fhv] [-R [-H | -L | -P]] [-E | -C | -N | -i | -I] file ...
Kapil-Brain4ce:~ admin$ sudo nano /etc/apache2/extra/httpd-userdir.conf

```

Step 13:

In this file, remove the # symbol in the “Include /private/etc/apache2/users/*.conf” line.



```
GNU nano 2.0.6 File: /etc/apache2/extra/httpd-userdir.conf

# Settings for user home directories
#
# Required module: mod_authz_core, mod_authz_host, mod_userdir
#
# UserDir: The name of the directory that is appended onto a user's home
# directory if a ~user request is received. Note that you must also set
# the default access control for these directories, as in the example below.
#
UserDir Sites

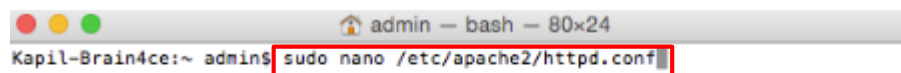
#
# Control access to UserDir directories. The following is an example
# for a site where these directories are restricted to read-only.
#
Include /private/etc/apache2/users/*.conf
<IfModule bonjour_module>
    RegisterUserSite customized-users
</IfModule>

[ Read 19 lines ]
^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^V Next Page  ^U UnCut Text ^T To Spell
```

Now save and exit.

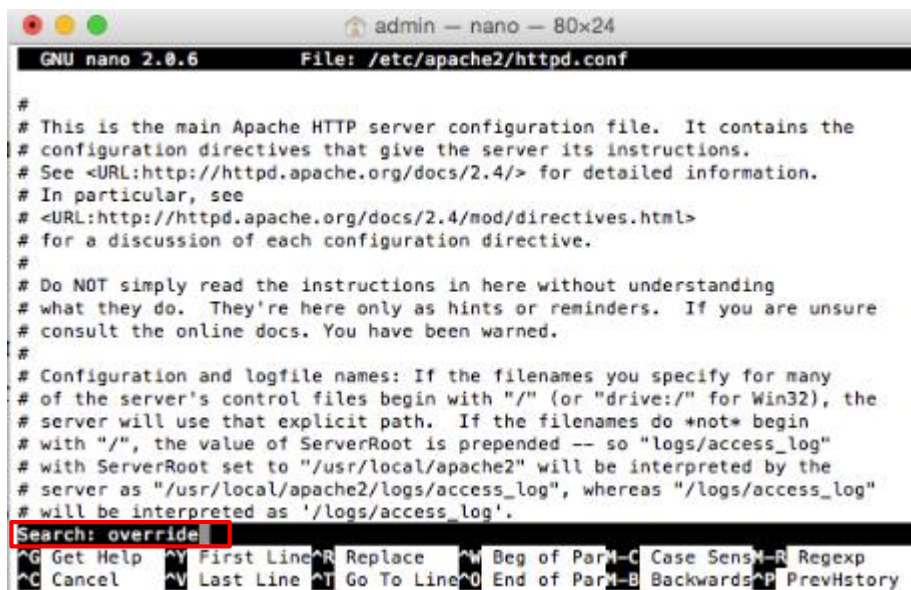
Step 14:

Now open the httpd.conf file in your terminal



```
Kapil-Brain4ce:~ admin$ sudo nano /etc/apache2/httpd.conf
```

You will get the following file where you will search for the word “override” by pressing “Control+W” and then press “Enter”



```

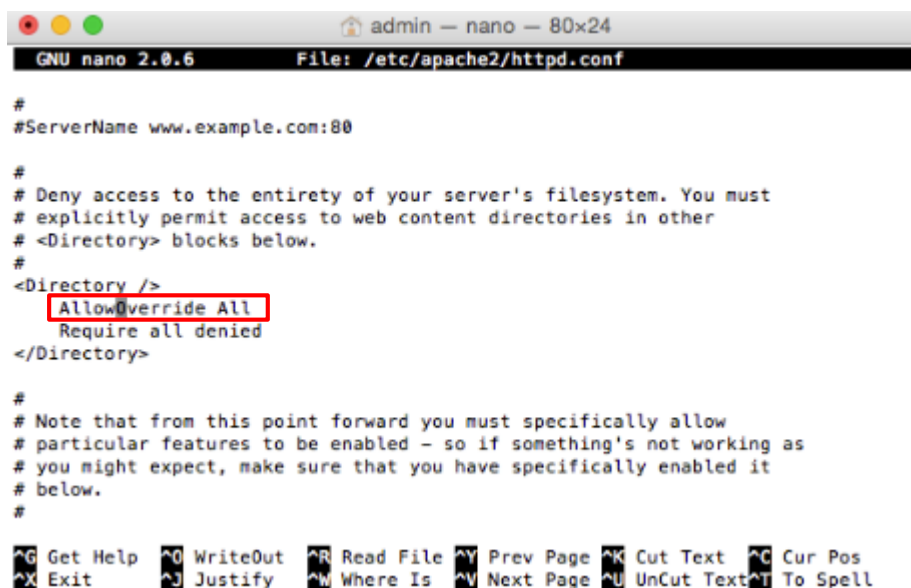
admin — nano — 80x24
GNU nano 2.0.6 File: /etc/apache2/httpd.conf

#
# This is the main Apache HTTP server configuration file. It contains the
# configuration directives that give the server its instructions.
# See <URL:http://httpd.apache.org/docs/2.4/> for detailed information.
# In particular, see
# <URL:http://httpd.apache.org/docs/2.4/mod/directives.html>
# for a discussion of each configuration directive.
#
# Do NOT simply read the instructions in here without understanding
# what they do. They're here only as hints or reminders. If you are unsure
# consult the online docs. You have been warned.
#
# Configuration and logfile names: If the filenames you specify for many
# of the server's control files begin with "/" (or "drive:/" for Win32), the
# server will use that explicit path. If the filenames do *not* begin
# with "/", the value of ServerRoot is prepended -- so "logs/access_log"
# with ServerRoot set to "/usr/local/apache2" will be interpreted by the
# server as "/usr/local/apache2/logs/access_log", whereas "/logs/access_log"
# will be interpreted as '/logs/access_log'.
Search: override
^G Get Help ^Y First Line ^R Replace ^W Beg of Par ^C Case Sens ^R Regexp
^C Cancel ^V Last Line ^T Go To Line ^O End of Par ^M-B Backwards ^P PrevHistory

```

Step 15:

Now change all the “AllowOverride None” occurrences to “AllowOverride All” in the file.



```

admin — nano — 80x24
GNU nano 2.0.6 File: /etc/apache2/httpd.conf

#
#ServerName www.example.com:80

#
# Deny access to the entirety of your server's filesystem. You must
# explicitly permit access to web content directories in other
# <Directory> blocks below.
#
<Directory />
  AllowOverride All
  Require all denied
</Directory>

#
# Note that from this point forward you must specifically allow
# particular features to be enabled - so if something's not working as
# you might expect, make sure that you have specifically enabled it
# below.
#
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell

```



```
admin — nano — 80x24
GNU nano 2.0.6 File: /etc/apache2/httpd.conf

#
# The Options directive is both complicated and important. Please see
# http://httpd.apache.org/docs/2.4/mod/core.html#options
# for more information.
#
Options FollowSymLinks Multiviews
MultiviewsMatch Any

#
# AllowOverride controls what directives may be placed in .htaccess files.
# It can be "All", "None", or any combination of the keywords:
#   AllowOverride FileInfo AuthConfig Limit
#
AllowOverride All

#
# Controls who can get stuff from this server.
#
Require all granted

^G Get Help  ^O WriteOut  ^R Read File ^Y Prev Page ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is  ^V Next Page ^U UnCut Text ^T To Spell
```

```
admin — nano — 80x24
GNU nano 2.0.6 File: /etc/apache2/httpd.conf

#
#Scriptsock cgisock
</IfModule>

#
# "/Library/WebServer/CGI-Executables" should be changed to whatever your Scrip$
# CGI directory exists, if you have that configured.
#
<Directory "/Library/WebServer/CGI-Executables">
  AllowOverride All
  Options None
  Require all granted
</Directory>

<IfModule mime_module>
#
# TypesConfig points to the file containing the list of mappings from
# filename extension to MIME-type.
#

^G Get Help  ^O WriteOut  ^R Read File ^Y Prev Page ^K Cut Text   ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is  ^V Next Page ^U UnCut Text ^T To Spell
```

Step 16:

Now restart your Apache Server:

```
admin — bash — 80x24
Kapil-Brain4ce:~ admin$ sudo nano /etc/apache2/httpd.conf
Kapil-Brain4ce:~ admin$ sudo apachectl start
/System/Library/LaunchDaemons/org.apache.httpd.plist: Operation already in progress
Kapil-Brain4ce:~ admin$
```

Step 17:

Create a phpinfo.php file in the folder like this:

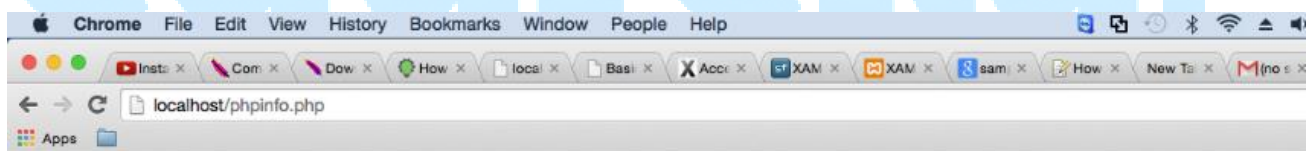
```
admin — bash — 80x24
Kapil-Brain4ce:~ admin$ vi /Library/WebServer/Documents/phpinfo.php
Kapil-Brain4ce:~ admin$ vi /Library/WebServer/Documents/phpinfo.php
Kapil-Brain4ce:~ admin$ sudo vi /Library/WebServer/Documents/phpinfo.php
```

In the text window that opens, press “I” and type “<?php phpinfo(); ?>”

Now save and exit the text editor using :wq command.

Step 18:

Now open your internet browser and type “localhost/phpinfo.php” and you will find:



PHP Version 5.5.14	
System	Darwin Kapil-Brain4ce.local 14.0.0 Darwin Kernel Version 14.0.0: Fri Sep 19 00:26:44 PDT 2014; root:xnu-2782.1.97~2/RELEASE_ARM64_T8020
Build Date	Sep 9 2014 19:04:27
Configure Command	/Library/WebServer/Documents/phpinfo.php --prefix=/usr --mandir=/usr/share/man --infodir=/usr/share/info --disable-dependency-tracking --sysconfdir=/private/etc --with-apxs2=/usr/bin/apxs --enable-cli --with-config-file-path=/etc --with-config-file-scan-dir=/Library/WebServer/Documents/phpinfo.php --with-libxml-dir=/usr --with-openssl=/usr --with-kerberos=/usr --with-zlib=/usr --enable-bcmath --with-bz2=/usr --enable-calendar --enable-cgi --with-curl=/usr --enable-dba --with-ndbm=/usr --enable-exif --enable-fpm --enable-ftp --with-png-dir=/usr --with-gd --with-jpeg-dir=/Library/WebServer/Documents/phpinfo.php --with-mysql=/usr/local --enable-gd-native-ttf --with-icu-dir=/usr --with-ldap=/usr --with-ldap-sasl=/usr --with-libedit=/usr --enable-mbstring --enable-mbregex --with-mysql=mysqlnd --with-mysqli=mysqlnd --without-pear --with-pear=no --with-pdo-mysql=mysqlnd --with-mysql-sock=/var/mysql/mysql.sock --with-readline=/usr --enable-shmop --with-snmp=/usr --enable-soap --enable-sockets --enable-sysvsem --enable-sysvshm --enable-tidy --enable-wddx --with-xmirc --with-xmirc-dir=/usr --with-xsl=/usr --enable-zend-multibyte --enable-zip --with-pcre-regex=/usr
Server API	Apache 2.0 Handler

Now you can run your PHP scripts on MAC :)