

Set up LAMP Server

Step1. Install Apache2

```
$ sudo apt-get update
$ sudo apt-get install apache2
```

```
annu@ubuntugnome:~$ sudo apt-get install apache2
Reading package lists... Done
Building dependency tree
```

Configure Apache2

Set Global ServerName to Suppress Syntax Warnings

```
$ sudo apache2ctl configtest
```

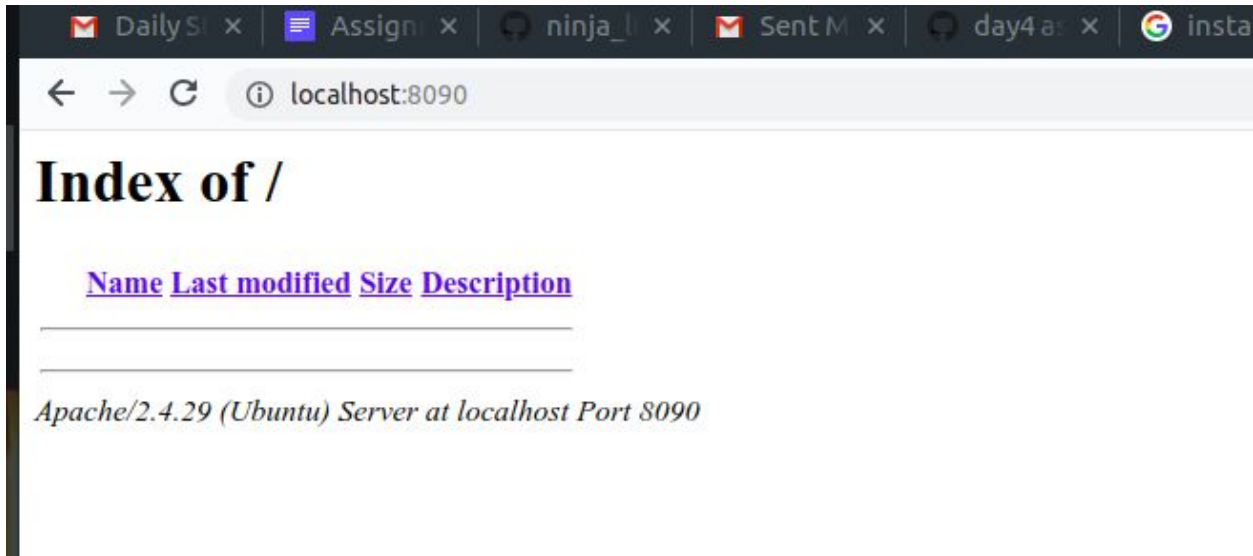
```
annu@ubuntugnome:~$ sudo apache2ctl configtest
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1. Set
lly to suppress this message
Syntax OK
annu@ubuntugnome:~$
```

```
$ sudo vim /etc/apache2/apache2.conf
```

add ServerName = ip_address (mine is 192.168.1.9) at the end of the file.

Verify it by running `$ sudo apache2ctl configtest`

```
annu@ubuntugnome:~$ sudo apache2ctl configtest
Syntax OK
annu@ubuntugnome:~$
```



Step2.Install MySQL

```
$ sudo apt-get install mysql-server
```

```
annu@ubuntugnome:~$ sudo mysql
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.7.23-0ubuntu0.18.04.1 (Ubuntu)

Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.00 sec)

mysql> █
```

If it does not ask for password run the below command .

```
$ sudo mysql_secure_authentication
```

Step3. Install PHP using Source

```
mkdir /usr/local/src/php5-build
```

```
cd /usr/local/src/php5-build
```

```
wget -O php-5.3.29.tar.gz http://de1.php.net/get/php-5.3.29.tar.gz/from/this/mirror
```

```
tar -xvzf php-5.3.29.tar.gz
```

```
sudo mkdir -p /usr/local/php( path for compilation)
```

```
sudo cp /usr/local/src/php5-build/php-5.3.29/php.ini-production /usr/local/php
```

Configure PHP for compilation

```
$ ./configure --help
```

It'll show a list of all options supported by the version of PHP that you are using.

To compile PHP as Apache shared module we have to provide path to apache *apxs* utility, which in our case was installed in `/wwwroot/bin/` when we installed Apache. So, in PHP source directory (`/usr/local/php`) execute this command :

```
$ sudo ./configure --prefix=/usr/local/php --with-apxs2=/usr/bin/apxs  
--with-config-file-path=/usr/local/php --with-mysql=/usr/bin/mysql
```

```
Generating files
updating cache ./config.cache
creating ./config.status
creating php5.spec
creating main/build-defs.h
creating scripts/phpize
creating scripts/man1/phpize.1
creating scripts/php-config
creating scripts/man1/php-config.1
creating sapi/cli/php.1
creating main/php_config.h
creating main/internal_functions.c
creating main/internal_functions_cli.c
+-----+
+*** WARNING ***+
+You have built PHP for Apache's current non-threaded MPM.+
+If you change Apache to use a threaded MPM you must reconfigure+
+PHP with --enable-maintainer-zts+
+-----+
+License:+
+This software is subject to the PHP License, available in this+
+distribution in the file LICENSE. By continuing this installation+
+process, you are bound by the terms of this license agreement.+
+If you do not agree with the terms of this license, you must abort+
+the installation process at this point.+
+-----+
Thank you for using PHP.
```

Compile PHP

```
$ sudo make
```

After make finishes and, no error etc. is displayed then PHP has been compiled successfully. If any warning is displayed then, normally, you can ignore it.

Now, stop apache

```
$ systemctl stop apache2
```

Now you can execute *make install* from within PHP source directory to install PHP to /usr/local/php directory:

```
$ make install
```

It will install PHP5 module to Apache module sub directories (/etc/apache2/mods-available/php5.load) add a line like this:

```
LoadModule php5_module modules/libphp5.so
```

```
AddType application/x-apache2-php .php
```

```
AddType application/x-apache2-php .phtml
```

```
<IfModule mod_php5.c>
```

```
<FilesMatch "\.ph(p?|tml)$">
```

```
SetHandler application/x-apache2-php
```

```
</FilesMatch>
```

```
</IfModule>
```

Restart the apache2. But when testing in browser Apache is downloading php files instead of displaying them. Having Issue with this please suggest me.

