

This guide will help you to install a local web server using Apache, MySQL and PHP on Ubuntu.

Install apache2:

```
sudo aptitude install apache2
```

Edit the `/etc/apache2/httpd.conf` to setup your `ServerName`

```
ServerName <myhostname>
```

Start apache2 and test:

```
sudo /etc/init.d/apache2 start
```

* If everything is OK you should see an ordinary HTML page when you type: `http://localhost` in your Firefox browser

Stop apache to install other component:

```
sudo /etc/init.d/apache2 stop
```

Let's install PHP

```
sudo aptitude install php5 libapache2-mod-php5
```

Restart Apache

```
sudo /etc/init.d/apache2 start
```

To test the PHP installation, create a dummy file in `/var/www/`

```
<?php
//file: test.php
phpinfo();
```

?>

PDO (PHP Data Objects)

If PDO (PHP Data Objects) is not installed, this is how to install it:

First, install some needed modules:

```
sudo aptitude install php5-dev libmysqlclient15-dev
```

libmysqlclient15-dev is needed by PDO mysql driver

Next, install the PHP pear:

```
sudo aptitude install php-pear
```

Then, you can install the PDO itself and the database specific driver, for example mysql driver:

```
pecl install pdo  
pecl install pdo_mysql
```

Check the php.ini: open the /etc/php5/apache2/php.ini and add check if these following lines are there

```
extension=pdo.so  
extension=pdo_mysql.so
```

if not installed, you can simply add it

And don't forget to restart your web server.

```
sudo /etc/init.d/apache2 restart
```

Install MySQL

MySQL:

```
sudo aptitude install mysql-server
```

Set your root password

```
mysql> SET PASSWORD FOR 'root'@'localhost' = PASSWORD('mypass');
```

Try running it

```
mysql -uroot -p
```

your password will be asked!

Now let's install mysql with apache

```
sudo aptitude install libapache2-mod-auth-mysql php5-mysql
```

Restart apache and test

```
sudo /etc/init.d/apache2 restart
```

(optional) you can setup your `/etc/mysql/my.cnf` file regarding your needs

Installation done! enjoy!

Once everything is installed, you might need some useful PHP extensions like:

```
sudo aptitude install php5-cli php5-curl php5-gd php5-imagick php5-ldap php5-mcrypt
```