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## Ubuntu Apache PHP5 and MySQL Installation – Configuration

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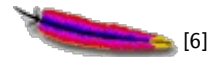
This entry is part 4 of 4 in the series [Ubuntu Linux Apache Server](#) <sup>[1]</sup>

[Ubuntu Linux Apache Server](#) <sup>[1]</sup>

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- [Ubuntu Linux Start / Restart / Stop Apache Web Server](#) <sup>[3]</sup>
- [Ubuntu Linux The Apache Configuration](#) <sup>[4]</sup>
- Ubuntu Apache PHP5 and MySQL Installation – Configuration

How do I install and configure PHP5 and MySQL for the Apache 2 web server under Ubuntu Linux operating systems?

php5 is server-side, open source HTML-embedded scripting language. MySQL is database server for many web-based applications. This FAQ assumes you have installed and configured [Apache 2 Web Server](#) <sup>[2]</sup>.



## Install MySQL Server

Type the following command to install MySQL server, client and documentation:

```
sudo apt-get install mysql-server mysql-common mysql-client mysql-doc-5.0
```

Edit /etc/mysql/my.cnf, enter:

```
sudo vi /etc/mysql/my.cnf
```

Review MySQL settings (the defaults are fine for small usage). To start / stop / restart mysql use the following commands:

```
sudo /etc/init.d/mysql start
sudo /etc/init.d/mysql stop
sudo /etc/init.d/mysql restart
```

## Set MySQL root User Password

By default there is no root password for MySQL. Type the [following command to set root password](#) <sup>[8]</sup>:

```
mysqladmin -u root password 'My-Secret-Password'
```

## Create a Sample Database and User For Testing Purpose

First connect to server, enter:

```
mysql -u root -p
```

Sample Outputs:

```
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 277
```

```
Server version: 5.0.67-0ubuntu6 (Ubuntu)

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql>
```

Create [a database called nixcraft](#) <sup>[9]</sup>, type the following at mysql> prompt:

```
mysql> CREATE DATABASE nixcraft;
```

Create a user called vivek with password t0mj3rR, enter:

```
mysql> GRANT ALL ON nixcraft.* TO vivek@localhost IDENTIFIED BY 't0mj3rR';
```

To quit just type \q and hit [Enter] key.

## Install PHP 5



Type the following command to install php5, gd (graphics), MySQL and PostgreSQL database support:

[10]

```
sudo apt-get install php5 libapache2-mod-php5 php5-cgi php5-cli php5-common php5-curl php5-
```

/etc/php5/apache2/php.ini is default php5 configuration file. By default php5 is enabled by installer. You can also run the following command to turn on php5 support

```
sudo a2enmod php5
```

Sample Outputs:

```
Enabling module php5.
Run '/etc/init.d/apache2 restart' to activate new configuration!
```

Restart the Web server:

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

## Test Your PHP5 and MySQL Configuration

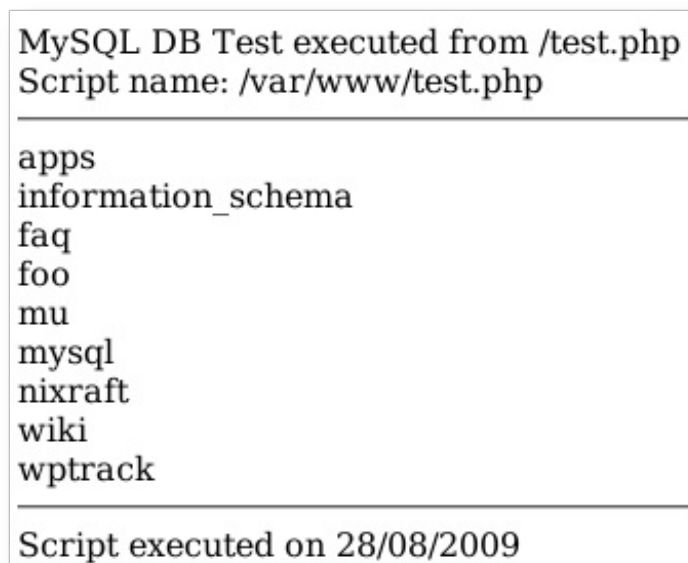
Create a sample program called /var/www/test.php and type the following code:

```
$link = mysql_connect [11] ("localhost", "root", "123456");
mysql_select_db [12] ("mysql");

$query = "show databases";
$result = mysql_query [13] ($query);
print [14] "
<h1>MySQL DB Test executed from ". $_SERVER['SCRIPT_NAME'] . "</h1>

\n";
print [14] "Script name: ". $_SERVER['SCRIPT_FILENAME'] . "
<hr>\n";
while ($line = mysql_fetch_array [15] ($result))
{
    print [14] "$line[0]<br>\n";
}
mysql_close [16] ($link);
echo [17] "
<hr/>Script executed on " . date [18] ("d/m/Y");
?>
```

Fire a web-browser and type url <http://example.com/test.php> or <http://server.ip.add.ress/test.php>



```
MySQL DB Test executed from /test.php
Script name: /var/www/test.php

apps
information_schema
faq
foo
mu
mysql
nixcraft
wiki
wptrack

Script executed on 28/08/2009
```

[19]

Fig.01: PHP and MySQL in action

Series Navigation

[«Ubuntu Linux The Apache Configuration](#) [4]

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[5] Image: <http://www.cyberciti.biz/faq/category/ubuntu-linux/>

[6] Image: <http://www.cyberciti.biz/faq/category/apache/>

[7] Image: <http://www.cyberciti.biz/faq/category/mysql/>

[8] following command to set root password: <http://www.cyberciti.biz/faq/mysql-change-root-password/>

[9] a database called nixcraft: <http://www.cyberciti.biz/faq/mysql-user-creation/>

[10] Image: <http://www.cyberciti.biz/faq/category/php/>

[11] `mysql_connect`: [http://www.php.net/mysql\\_connect](http://www.php.net/mysql_connect)

[12] `mysql_select_db`: [http://www.php.net/mysql\\_select\\_db](http://www.php.net/mysql_select_db)

[13] `mysql_query`: [http://www.php.net/mysql\\_query](http://www.php.net/mysql_query)

[14] `print`: <http://www.php.net/print>

[15] `mysql_fetch_array`: [http://www.php.net/mysql\\_fetch\\_array](http://www.php.net/mysql_fetch_array)

[16] `mysql_close`: [http://www.php.net/mysql\\_close](http://www.php.net/mysql_close)

[17] `echo`: <http://www.php.net/echo>

[18] `date`: <http://www.php.net/date>

[19] Image: <http://www.cyberciti.biz/faq/ubuntu-linux-apache-php5-mysql-tutorial/php-output/>

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