

# LAMP server LAB

LAMP refers to the first letters of Linux,Apache,MySql and PHP.

1. Apache2 installation
2. MySQL installation
3. PHP installation
4. Testing all together

## Apache2 installation :

**Step 1 »** Type the below command for installing apache 2 package from repository .

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

This command will install apache2 and its dependencies .

**Step 2 »** After installation, Add the following line “ServerName localhost” to the */etc/apache2/apache2.conf* file.

```
ServerName www.groupN.apnictraining.net
```

**Step 3 »** and restart apache service

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

**Step 4 »** Apache will start working with minimal configuration. Now Open your server-ip and *www.groupN.apnictraining.net* in the browser and You can see the apache ubuntu test page. ( Default document root is located in this path */var/www/html* )

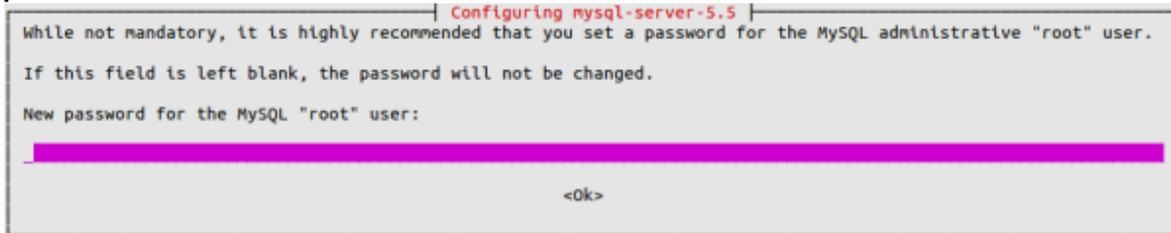
## MySQL installation :

**Step 5 »** Issue the below command to install mysql server with dependencies.

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

**Step 6 »** During installation it will prompt for a new password for mysql root . Give some strong password and retype the same

password for confirmation.



**Step 7 »** After installation check the Database connection. Check the service status .

```
# sudo /etc/init.d/mysql status
```

Service is already up , Now Type this command to login

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

```
Enter password: *****
```

```
Welcome to the MySQL monitor. Commands end with ; or g.  
Type 'help;' or 'h' for help. Type 'c' to clear the current input  
statement.
```

```
mysql>
```

Okay . Mysql server installation is over.

## PHP installation :

**Step 8 »** Type the below command to install php5 .

```
$ sudo apt-get install php5 php5-mysql libapache2-mod-php5
```

**Step 9 »** Create a php file and paste the below code into the file to show the php configuration . Goto the default apache root path `/var/www/html` .

create a new file `phpinfo.php` and paste the below code and save it.

```
<?php  
phpinfo();  
?>
```

**Step 10 »** Now restart the apache2 service .

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

**Step 11** » Now open the file in the browser ( Eg: <http://www.groupN.apnictraining.net/phpinfo.php> ) you can see the php information and make sure you can see the mysql details in the php information page .

We have successfully configured Apache2 , mysql and php .

## Testing All together :

We need to test mysql database connectivity using PHP code .

**Step 12** » create a new file dbtest.php in the root path (*/var/www/html*) and paste the below code . kindly replace “password” with your mysql root password provided during mysql installation .

```
<?php
$con = mysql_connect("localhost","root","password");
if (!$con)
{
die('Could not connect: ' . mysql_error());
}
else
{
echo "Congrats! connection established successfully";
}
mysql_close($con);
?>
```

**Step 13** » open the file in your browser ( <http://www.groupN.apnictraining.net/dbtest.php> ). Now you could see the page like below.