**PREREQUISITES**

To setup web server on your own Linux computer, we’ll require the following three components to be installed –

* APACHE2 : apache2 is open-source HTTP server. It is still most popular web-server used worldwide today.
* PHP AND PHP SQLITE COMPONENT: PHP is server side scripting language. PHP and its component will help you to interact with backend mySQL database for your website.
* MYSQL: mySQL is database solution in which you shall be storing your data in table.

**STEP ONE — INSTALL APACHE2**

Apache is open source web-server software that powers much of the web today. It is maintained by apache-http-project.

Explore more here: <https://httpd.apache.org/>

Open your terminal and type in commands –

sudo apt-get update

sudo apt-get install apache2

To check if apache2 is installed properly –

sudo service apache2 restart

Open your web-browser and open link using ip–address of your server. If you are practicing locally, you can type in localhost or 127.0.0.1.

By default, apache runs on port 80 and hence you need not provide the port number in your browser.

127.0.0.1

Or ip-address of your server. For example 198.162.12.52

It should show message like it works!

To change port address, you need to edit the configuration file at /etc/apache2/ports.conf  and change the Listen 80 to your desired port number. After edit you need to restart the apache2 server.

To restart apache2 web server –

sudo service apache2 restart

**STEP TWO — INSTALL mySQL**

mySQL is the database management solution that helps you to store and retrieve data in tables. Since in this tutorial we shall be using php, we will also need to install php7.0-mysql component.

sudo apt-get install mysql-server php7.0-mysql

To check if mySQL is installed properly, open mysql on terminal with command –

mysql -uroot

If you set the password during installation open with -p parameter –

mysql -uroot -p

PHP is open source web server scripting language. It is back-end scripting language that will help you to interact with the mySQL database. For example, if you want to show the tabular employee list stored in your mySQL database in your website, with the help of PHP you can interact with mySQL, retrieve the employee list and render in html page. Php5-mysql library helps you in this regard. PHP provides multiple auxiliary libraries for different needs. Php7.0-mysql is one among them and we shall use that in our tutorial.

To search the libraries that are available.

apt-cache search php7.0-

To install PHP and php7-mysql

sudo apt-get install php7.0 libapache2-mod-php7.0 php7.0-mcrypt

sudo apt-get install php7.0-sqlite

To check if php is installed correctly, make file /var/www/html/info.php and add the following content to this file –

<?php

phpinfo();

?>

To restart apache2 web server –

sudo service apache2 restart

Open web browser and navigate to

127.0.0.1/info.php

If you are using remote server replace ip with server’s ip address.

Upon success, you should see following webpage –

Well that’s it, you are ready with the basic setup required for this tutorial