Networking and System Administration Lab
Lab Assignment: LAMP Stack installation
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The name LAMP is an acronym of the following programs:

**Linux Operating System** 

**Apache HTTP Server** 

MySQL database management system

PHP programming language

# 1. Installation of Apache Server. Command:

sudo apt-get install apache2
Press y (yes) and hit ENTER to permit the installation

Check if Apache is installed correctly by running the Apache service status. Use the following the command:

sudo service apache2 status

```
thomson:~$ sudo systemctl status apache2
  apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
     Active: active (running) since Wed 2021-09-29 14:35:43 IST; 5h 23min left
    Docs: https://httpd.apache.org/docs/2.4/
Process: 1008 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 1220 (apache2)
      Tasks: 6 (limit: 8716)
     Memory: 19.0M
     CGroup: /system.slice/apache2.service
                —1220 /usr/sbin/apache2 -k start
                 -1228 /usr/sbin/apache2 -k start
                -1229 /usr/sbin/apache2 -k start
                –1230 /usr/sbin/apache2 -k start
                —1231 /usr/sbin/apache2 -k start
                 -1232 /usr/sbin/apache2 -k start
Sep 29 14:35:36 vimal-thomson systemd[1]: Starting The Apache HTTP Server...
Sep 29 14:35:43 vimal-thomson apachectl[1061]: AH00558: apache2: Could not reliably determine th
Sep 29 14:35:43 vimal-thomson systemd[1]: Started The Apache HTTP Server.
 ines 1-19/19 (END)
```

## 2. Installation of MariaDB

MariaDB is an open source relational database management system (RDBMS) <u>Command:</u>

sudo apt install mariadb-server mariadb-client

Check mariadb Installation

sudo systemctl status mysql

(if it is not working sudo systemctl start mysql)

```
.malthomson@vimal-thomson:~$ sudo systemctl status mysql
mariadb.service - MariaDB 10.3.31 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2021-09-29 14:35:49 IST; 5h 23min left
     Docs: man:mysqld(8)
  https://mariadb.com/kb/en/library/systemd/
Process: 1010 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/mysqld (cod
  Process: 1024 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (co
  Process: 1032 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && VAR= || VAR=
  Process: 1347 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (
  Process: 1349 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS)
 Main PID: 1123 (mysqld)
   Status: "Taking your SQL requests now..."
    Tasks: 31 (limit: 8716)
   Memory: 108.8M
   CGroup: /system.slice/mariadb.service
              1123 /usr/sbin/mysqld
```

#### 3. Install PHP

#### Command:

sudo apt install php libapache2-mod-php php-opcache php-cli php-gd php-curl php-mysql

Restart apache2

sudo systemctl restart apache2

check installation

open <a href="http://127.0.0.1/phpinfo.php">http://127.0.0.1/phpinfo.php</a> in any browser

## 4. Install phpmyadmin

## Command:

sudo apt install phpmyadmin php-mbstring php-zip php-gd php-json php-curl

(It asks for webserver select apache2, select db-configuration and set password)

Restart apache2

sudo systemctl restart apache2

## Check phpmyadmin

Open a browser

http://localhost/phpmyadmin

username: root

password: yourpassword



## Welcome to phpMyAdmin



