



NETWORKING AND SYSTEM ADMINISTRATION LAB

ASSIGNMENT



LAMP INSTALLATION

**SUBMITTED TO
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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:

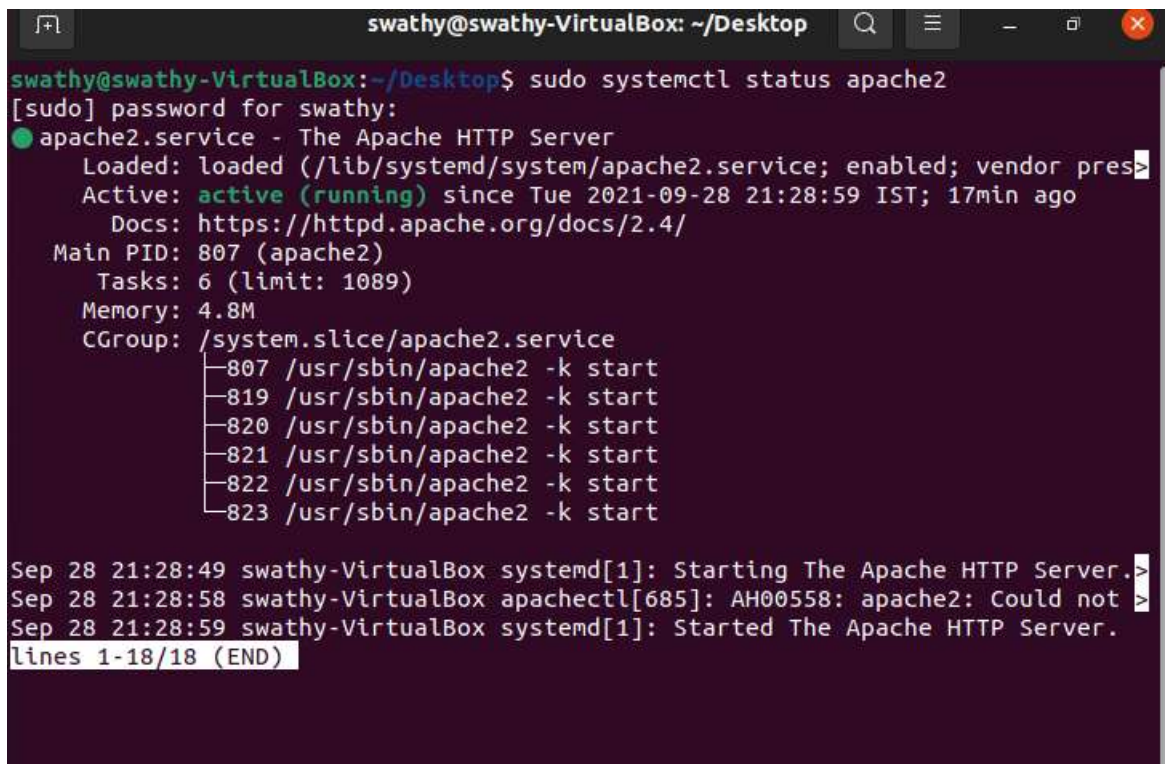
```
sudo apt-get install apache2
```

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
```



```
swathy@swathy-VirtualBox: ~/Desktop
swathy@swathy-VirtualBox:~/Desktop$ sudo systemctl status apache2
[sudo] password for swathy:
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2021-09-28 21:28:59 IST; 17min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 807 (apache2)
    Tasks: 6 (limit: 1089)
   Memory: 4.8M
   CGroup: /system.slice/apache2.service
           └─807 /usr/sbin/apache2 -k start
             └─819 /usr/sbin/apache2 -k start
               └─820 /usr/sbin/apache2 -k start
                 └─821 /usr/sbin/apache2 -k start
                   └─822 /usr/sbin/apache2 -k start
                     └─823 /usr/sbin/apache2 -k start

Sep 28 21:28:49 swathy-VirtualBox systemd[1]: Starting The Apache HTTP Server.>
Sep 28 21:28:58 swathy-VirtualBox apachectl[685]: AH00558: apache2: Could not >
Sep 28 21:28:59 swathy-VirtualBox systemd[1]: Started The Apache HTTP Server.
lines 1-18/18 (END)
```

2. Installation of MariaDB

MariaDB is an open source relational database management system (RDBMS)

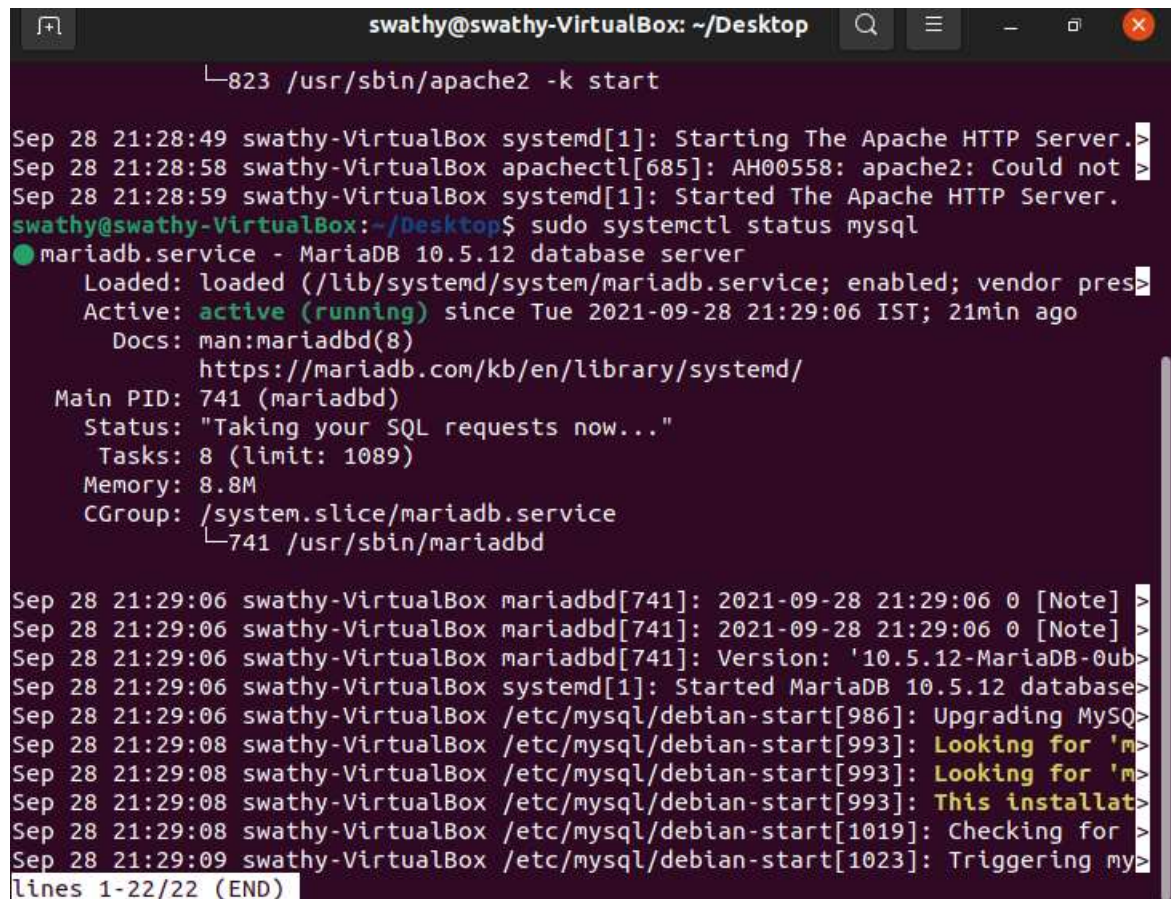
Command:

```
sudo apt install mariadb-server mariadb-client
```

Check mariadb Installation

`sudo systemctl status mysql`

(if it is not working `sudo systemctl start mysql`)

A terminal window titled 'swathy@swathy-VirtualBox: ~/Desktop' showing the process of starting Apache and checking the status of MariaDB. The user runs 'sudo systemctl status mysql', which shows that the 'mariadb.service' is loaded and active (running) since Tuesday, 2021-09-28 at 21:29:06 IST. The terminal also shows logs for the Apache HTTP Server starting and MariaDB 10.5.12 database server starting. The user also runs 'sudo systemctl start mysql' and the terminal shows logs for the MySQL upgrade process.

```
swathy@swathy-VirtualBox: ~/Desktop
└─823 /usr/sbin/apache2 -k start
Sep 28 21:28:49 swathy-VirtualBox systemd[1]: Starting The Apache HTTP Server.
Sep 28 21:28:58 swathy-VirtualBox apachectl[685]: AH00558: apache2: Could not
Sep 28 21:28:59 swathy-VirtualBox systemd[1]: Started The Apache HTTP Server.
swathy@swathy-VirtualBox:~/Desktop$ sudo systemctl status mysql
● mariadb.service - MariaDB 10.5.12 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor pres
   Active: active (running) since Tue 2021-09-28 21:29:06 IST; 21min ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
   Main PID: 741 (mariabdd)
    Status: "Taking your SQL requests now..."
     Tasks: 8 (limit: 1089)
    Memory: 8.8M
    CGroup: /system.slice/mariadb.service
           └─741 /usr/sbin/mariabdd
Sep 28 21:29:06 swathy-VirtualBox mariabdd[741]: 2021-09-28 21:29:06 0 [Note]
Sep 28 21:29:06 swathy-VirtualBox mariabdd[741]: 2021-09-28 21:29:06 0 [Note]
Sep 28 21:29:06 swathy-VirtualBox mariabdd[741]: Version: '10.5.12-MariaDB-0ub
Sep 28 21:29:06 swathy-VirtualBox systemd[1]: Started MariaDB 10.5.12 database
Sep 28 21:29:06 swathy-VirtualBox /etc/mysql/debian-start[986]: Upgrading MySQL
Sep 28 21:29:08 swathy-VirtualBox /etc/mysql/debian-start[993]: Looking for 'm
Sep 28 21:29:08 swathy-VirtualBox /etc/mysql/debian-start[993]: Looking for 'm
Sep 28 21:29:08 swathy-VirtualBox /etc/mysql/debian-start[993]: This installat
Sep 28 21:29:08 swathy-VirtualBox /etc/mysql/debian-start[1019]: Checking for
Sep 28 21:29:09 swathy-VirtualBox /etc/mysql/debian-start[1023]: Triggering my
lines 1-22/22 (END)
```

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 <http://127.0.0.1/phpinfo.php> in any browser

4. Install phpmyadmin

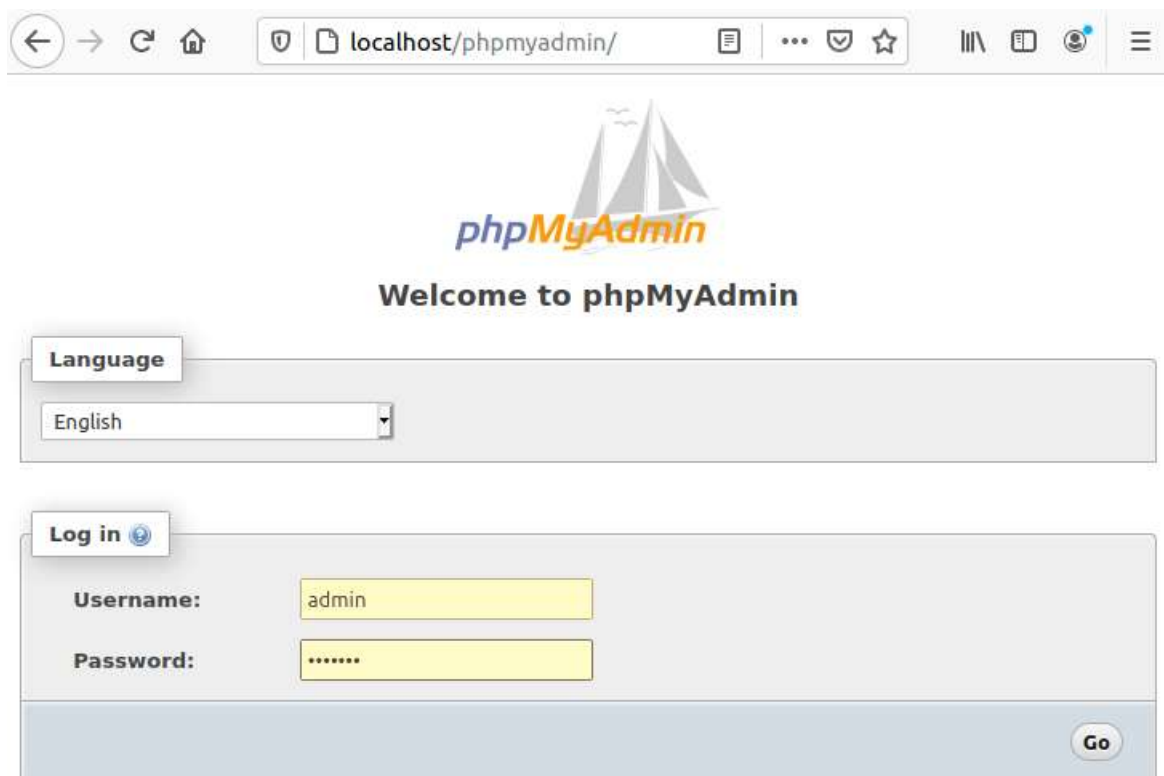
Command:

`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



The screenshot shows a web browser window with the address bar displaying 'localhost/phpmyadmin/'. The page features the phpMyAdmin logo, which includes a stylized sailboat and the text 'phpMyAdmin'. Below the logo, it says 'Welcome to phpMyAdmin'. There are two main sections: 'Language' and 'Log in'. The 'Language' section has a dropdown menu currently set to 'English'. The 'Log in' section contains two input fields: 'Username:' with the value 'admin' and 'Password:' with masked characters '.....'. A 'Go' button is located at the bottom right of the login section.

← → ↻ 🏠 🔒 📄 localhost/phpmyadmin/ 📄 ⋮ 🛡️ ☆ 📱 📄 👤 ☰


Welcome to phpMyAdmin

Language

English ▼

Log in ⓘ

Username: admin

Password:

Go

