

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.

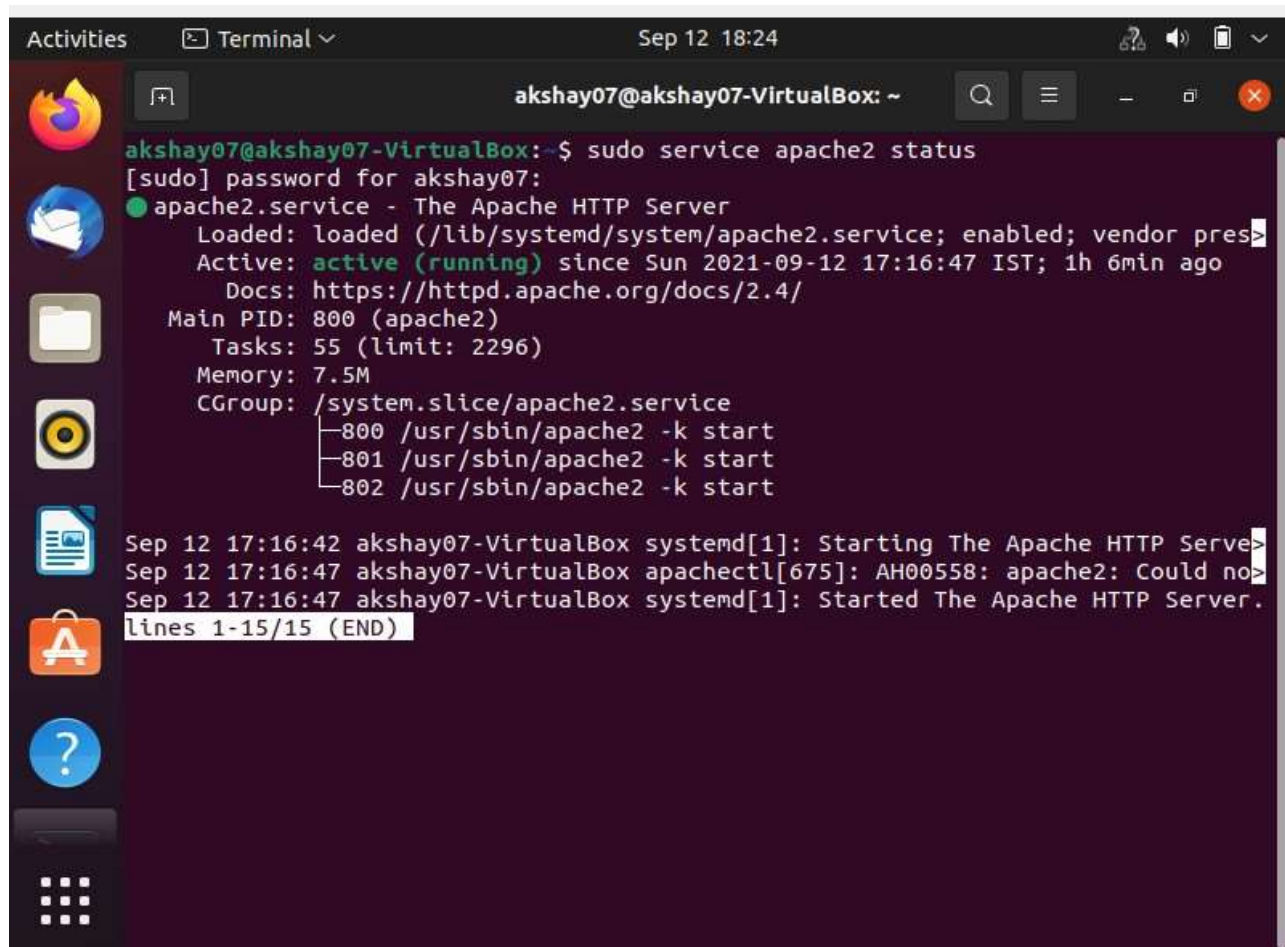
Command:

```
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
```



```
akshay07@akshay07-VirtualBox:~$ sudo service apache2 status
[sudo] password for akshay07:
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Sun 2021-09-12 17:16:47 IST; 1h 6min ago
     Docs: https://httpd.apache.org/docs/2.4/
    Main PID: 800 (apache2)
      Tasks: 55 (limit: 2296)
     Memory: 7.5M
    CGroup: /system.slice/apache2.service
            └─800 /usr/sbin/apache2 -k start
              └─801 /usr/sbin/apache2 -k start
                └─802 /usr/sbin/apache2 -k start

Sep 12 17:16:42 akshay07-VirtualBox systemd[1]: Starting The Apache HTTP Server:
Sep 12 17:16:47 akshay07-VirtualBox apachectl[675]: AH00558: apache2: Could not
Sep 12 17:16:47 akshay07-VirtualBox systemd[1]: Started The Apache HTTP Server.
lines 1-15/15 (END)
```

2. Installation of MariaDB

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

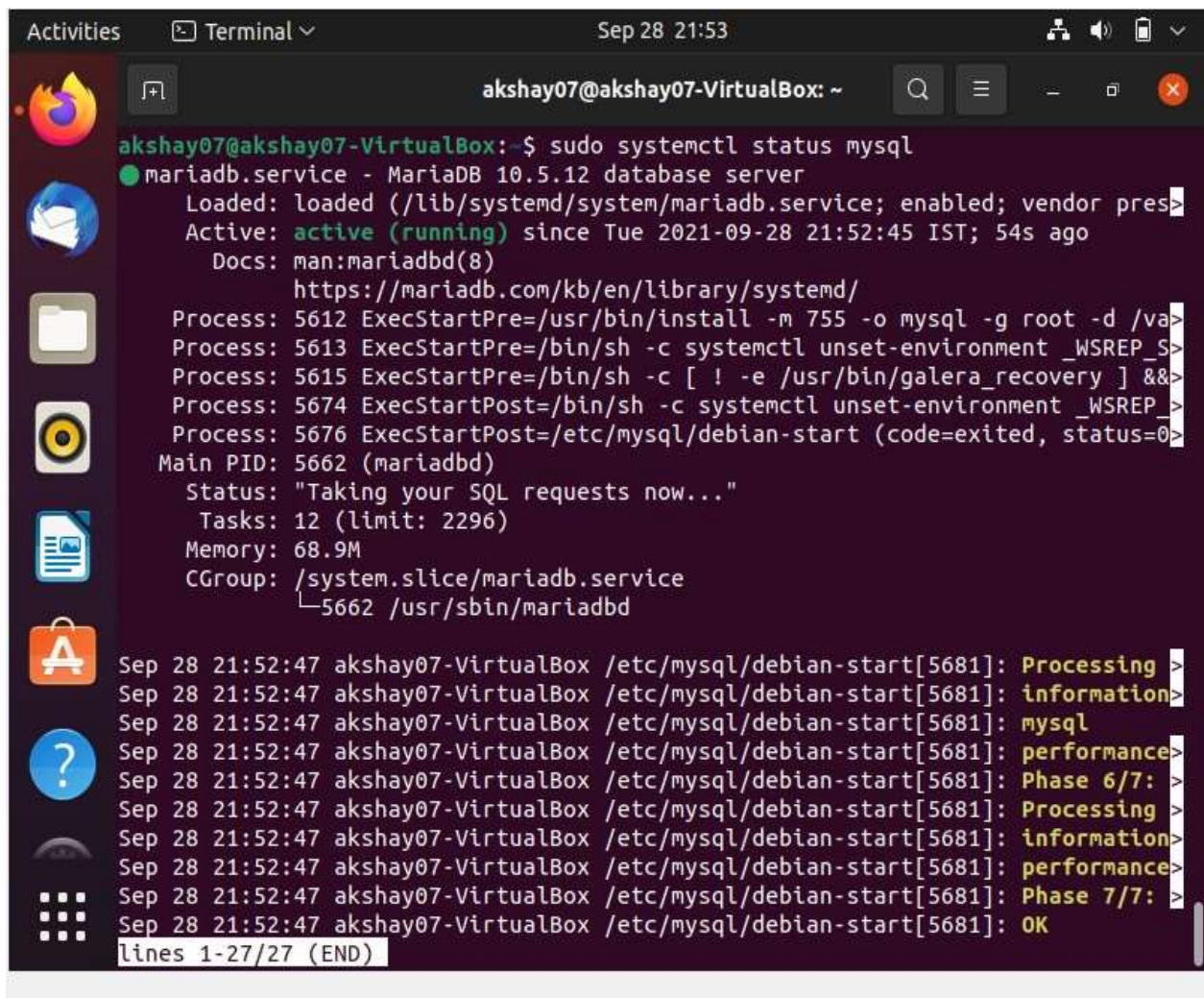
Command:

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

Check mariadb Installation

```
sudo systemctl status mysql
```

(if it is not working sudo systemctl start mysql)



```
akshay07@akshay07-VirtualBox: ~  
$ sudo systemctl status mysql  
● mariadb.service - MariaDB 10.5.12 database server  
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)  
   Active: active (running) since Tue 2021-09-28 21:52:45 IST; 54s ago  
     Docs: man:mariadb(8)  
           https://mariadb.com/kb/en/library/systemd/  
  Process: 5612 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/lib/mysql  
  Process: 5613 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_SSH_KEY  
  Process: 5615 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && mv /etc/mysql/conf.d/mariadb.galera_initial_configuration.galera.conf /etc/mysql/conf.d/mariadb.galera_initial_configuration.galera.conf  
  Process: 5674 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_SSH_KEY  
  Process: 5676 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0)  
 Main PID: 5662 (mariabdd)  
   Status: "Taking your SQL requests now..."  
    Tasks: 12 (limit: 2296)  
  Memory: 68.9M  
    CGroup: /system.slice/mariadb.service  
            └─5662 /usr/sbin/mariabdd  
  
Sep 28 21:52:47 akshay07-VirtualBox /etc/mysql/debian-start[5681]: Processing information  
Sep 28 21:52:47 akshay07-VirtualBox /etc/mysql/debian-start[5681]: mysql performance  
Sep 28 21:52:47 akshay07-VirtualBox /etc/mysql/debian-start[5681]: Phase 6/7: Processing information  
Sep 28 21:52:47 akshay07-VirtualBox /etc/mysql/debian-start[5681]: performance  
Sep 28 21:52:47 akshay07-VirtualBox /etc/mysql/debian-start[5681]: Phase 7/7: OK  
lines 1-27/27 (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

