

# **ASSIGNMENT**

**NETWORKING & SYSTEM ADMINISTRATION LAB**

TOPIC:

**LAMP INSTALLATION PROCEDURE**

**SILJA C K**  
**RMCA B**  
**Roll No : 20**

# Install apache

- Update your system

**sudo apt update**

- Install Apache using apt:

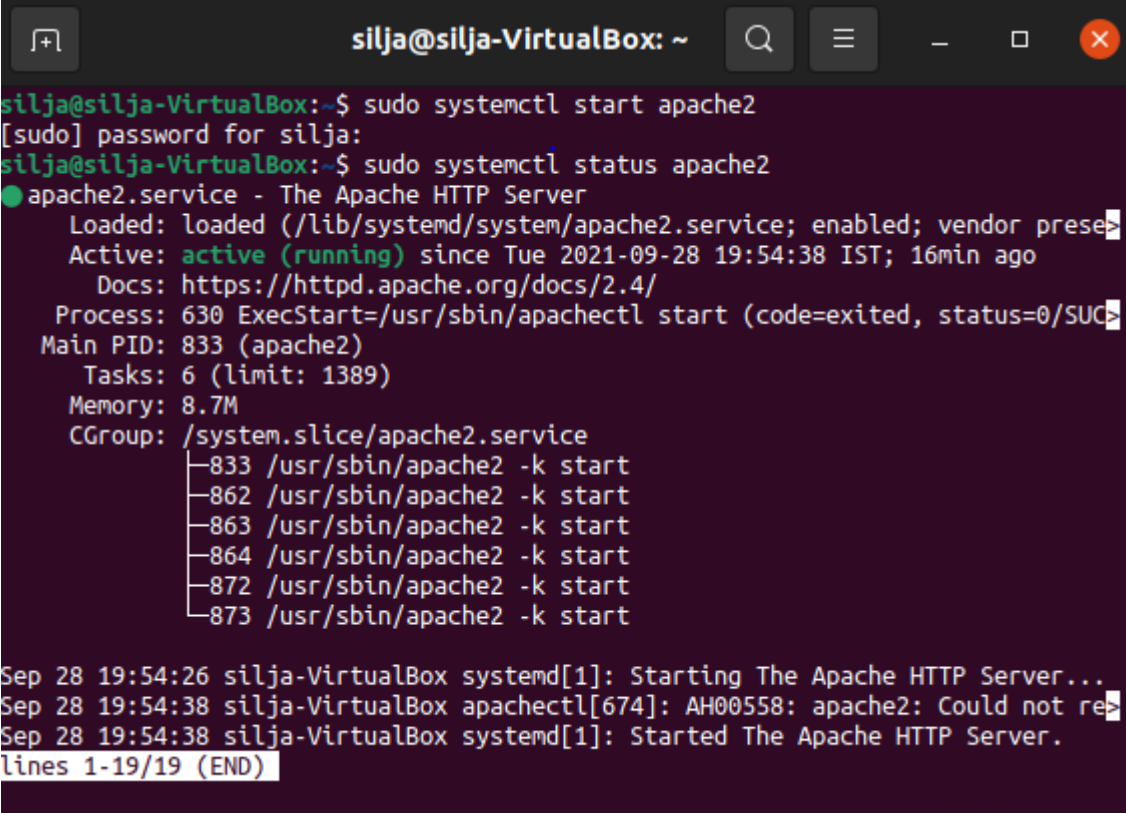
**sudo apt install apache2**

- Confirm that Apache is now running with the following command:

**sudo systemctl status apache2**

- if it is not working

**sudo systemctl start apache2**

A terminal window titled 'silja@silja-VirtualBox: ~' with standard window controls. The terminal shows the following commands and output:

```
silja@silja-VirtualBox:~$ sudo systemctl start apache2
[sudo] password for silja:
silja@silja-VirtualBox:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor prese
   Active: active (running) since Tue 2021-09-28 19:54:38 IST; 16min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 630 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUC
 Main PID: 833 (apache2)
    Tasks: 6 (limit: 1389)
   Memory: 8.7M
   CGroup: /system.slice/apache2.service
           └─833 /usr/sbin/apache2 -k start
             └─862 /usr/sbin/apache2 -k start
               └─863 /usr/sbin/apache2 -k start
                 └─864 /usr/sbin/apache2 -k start
                   └─872 /usr/sbin/apache2 -k start
                     └─873 /usr/sbin/apache2 -k start

Sep 28 19:54:26 silja-VirtualBox systemd[1]: Starting The Apache HTTP Server...
Sep 28 19:54:38 silja-VirtualBox apachectl[674]: AH00558: apache2: Could not re
Sep 28 19:54:38 silja-VirtualBox systemd[1]: Started The Apache HTTP Server.
lines 1-19/19 (END)
```

# Install mariadb

- Install mariaDB

**sudo apt install mariadb-server mariadb-client**

- Check mariadb Installation

**sudo systemctl status mysql**

(if it is not working sudo systemctl start mysql )

```
silja@silja-VirtualBox:~$ sudo systemctl start mysql
[sudo] password for silja:
silja@silja-VirtualBox:~$ 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 19:54:42 IST; 24min ago
     Docs: man:mariabdd(8)
           https://mariadb.com/kb/en/library/systemd/
  Process: 633 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var>
  Process: 648 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_ST>
  Process: 652 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && >
  Process: 918 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_S>
  Process: 920 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/>
 Main PID: 741 (mariabdd)
   Status: "Taking your SQL requests now..."
    Tasks: 8 (limit: 1389)
  Memory: 31.6M
   CGroup: /system.slice/mariadb.service
           └─741 /usr/sbin/mariabdd

Sep 28 19:54:41 silja-VirtualBox mariabdd[741]: 2021-09-28 19:54:41 0 [Note] R>
Sep 28 19:54:41 silja-VirtualBox mariabdd[741]: 2021-09-28 19:54:41 0 [Note] A>
Sep 28 19:54:41 silja-VirtualBox mariabdd[741]: 2021-09-28 19:54:41 0 [Note] />
Sep 28 19:54:41 silja-VirtualBox mariabdd[741]: Version: '10.5.12-MariaDB-0ubu>
Sep 28 19:54:42 silja-VirtualBox systemd[1]: Started MariaDB 10.5.12 database >
Sep 28 19:54:43 silja-VirtualBox /etc/mysql/debian-start[928]: Looking for 'my>
Sep 28 19:54:43 silja-VirtualBox /etc/mysql/debian-start[928]: Looking for 'my>
```

```

lines 1-27/27 (END)...skipping...
● 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 19:54:42 IST; 24min ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 633 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/mysqld (code=exite>
   Process: 648 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exit>
   Process: 652 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && VAR= || VAR='cd /usr/>
   Process: 918 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exi>
   Process: 920 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS)
  Main PID: 741 (mariadb)
    Status: "Taking your SQL requests now..."
     Tasks: 8 (limit: 1389)
    Memory: 31.6M
    CGroup: /system.slice/mariadb.service
            └─741 /usr/sbin/mariadb

Sep 28 19:54:41 silja-VirtualBox mariadb[741]: 2021-09-28 19:54:41 0 [Note] Reading of all Master_in>
Sep 28 19:54:41 silja-VirtualBox mariadb[741]: 2021-09-28 19:54:41 0 [Note] Added new Master_info ''>
Sep 28 19:54:41 silja-VirtualBox mariadb[741]: 2021-09-28 19:54:41 0 [Note] /usr/sbin/mariadb: read>
Sep 28 19:54:41 silja-VirtualBox mariadb[741]: Version: '10.5.12-MariaDB-0ubuntu0.21.04.1' socket: >
Sep 28 19:54:42 silja-VirtualBox systemd[1]: Started MariaDB 10.5.12 database server.
Sep 28 19:54:43 silja-VirtualBox /etc/mysql/debian-start[928]: Looking for 'mysql' as: /usr/bin/mysql
Sep 28 19:54:43 silja-VirtualBox /etc/mysql/debian-start[928]: Looking for 'mysqlcheck' as: /usr/bin/>
Sep 28 19:54:43 silja-VirtualBox /etc/mysql/debian-start[928]: This installation of MariaDB is alread>
Sep 28 19:54:43 silja-VirtualBox /etc/mysql/debian-start[955]: Checking for insecure root accounts.
Sep 28 19:54:43 silja-VirtualBox /etc/mysql/debian-start[959]: Triggering myisam-recover for all MyIS>
~

```

## Install PHP

- Install PHP

```
sudo apt install php libapache2-mod-php php-  
opcachephp-cli php-gdphp-curl php-mysql
```

- Restart apache2

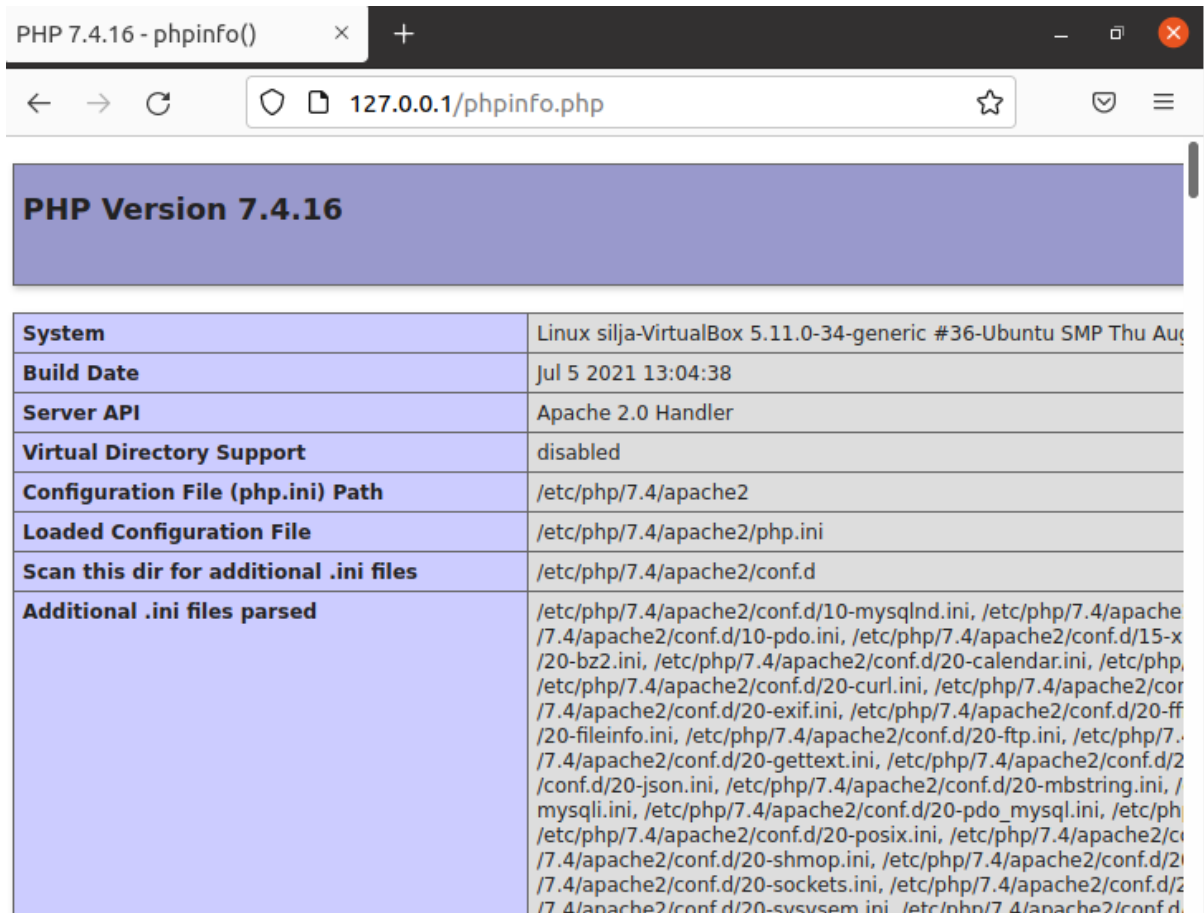
```
sudo systemctl restart apache2
```

- Now you can check php installation

```
sudo echo "<?phpphpinfo(); ?>" | sudo tee -a  
/var/www/html/phpinfo.php>/dev/null
```

- Open a browser

**http://127.0.0.1/phpinfo.php**



|  |   |
|--|---|
| <b>PHP Version 7.4.16</b>                      |   |
| <b>System</b>                                  | Linux silja-VirtualBox 5.11.0-34-generic #36-Ubuntu SMP Thu Aug 12 22:03:19 UTC 2021 x86_64   |
| <b>Build Date</b>                              | Jul 5 2021 13:04:38   |
| <b>Server API</b>                              | Apache 2.0 Handler  |
| <b>Virtual Directory Support</b>               | disabled  |
| <b>Configuration File (php.ini) Path</b>       | /etc/php/7.4/apache2  |
| <b>Loaded Configuration File</b>               | /etc/php/7.4/apache2/php.ini  |
| <b>Scan this dir for additional .ini files</b> | /etc/php/7.4/apache2/conf.d   |
| <b>Additional .ini files parsed</b>            | /etc/php/7.4/apache2/conf.d/10-mysqlnd.ini, /etc/php/7.4/apache2/conf.d/10-pdo.ini, /etc/php/7.4/apache2/conf.d/15-xdebug.ini, /etc/php/7.4/apache2/conf.d/20-bz2.ini, /etc/php/7.4/apache2/conf.d/20-calendar.ini, /etc/php/7.4/apache2/conf.d/20-curl.ini, /etc/php/7.4/apache2/conf.d/20-exif.ini, /etc/php/7.4/apache2/conf.d/20-fileinfo.ini, /etc/php/7.4/apache2/conf.d/20-ftp.ini, /etc/php/7.4/apache2/conf.d/20-gettext.ini, /etc/php/7.4/apache2/conf.d/20-gd.ini, /etc/php/7.4/apache2/conf.d/20-iconv.ini, /etc/php/7.4/apache2/conf.d/20-imagick.ini, /etc/php/7.4/apache2/conf.d/20-imagick.ini, /etc/php/7.4/apache2/conf.d/20-ldap.ini, /etc/php/7.4/apache2/conf.d/20-mbstring.ini, /etc/php/7.4/apache2/conf.d/20-mysqli.ini, /etc/php/7.4/apache2/conf.d/20-pdo_mysql.ini, /etc/php/7.4/apache2/conf.d/20-posix.ini, /etc/php/7.4/apache2/conf.d/20-shmop.ini, /etc/php/7.4/apache2/conf.d/20-sockets.ini, /etc/php/7.4/apache2/conf.d/20-sysvsem.ini, /etc/php/7.4/apache2/conf.d/20-sysvshm.ini, /etc/php/7.4/apache2/conf.d/20-xml.ini, /etc/php/7.4/apache2/conf.d/20-xmlrpc.ini, /etc/php/7.4/apache2/conf.d/20-zip.ini, /etc/php/7.4/apache2/conf.d/20-zlib.ini |

## Install phpmyadmin

- Install phpmyadmin

```
sudo apt install phpmyadminphp-mbstringphp-zip  
php-gdphp-jsonphp-curl
```

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

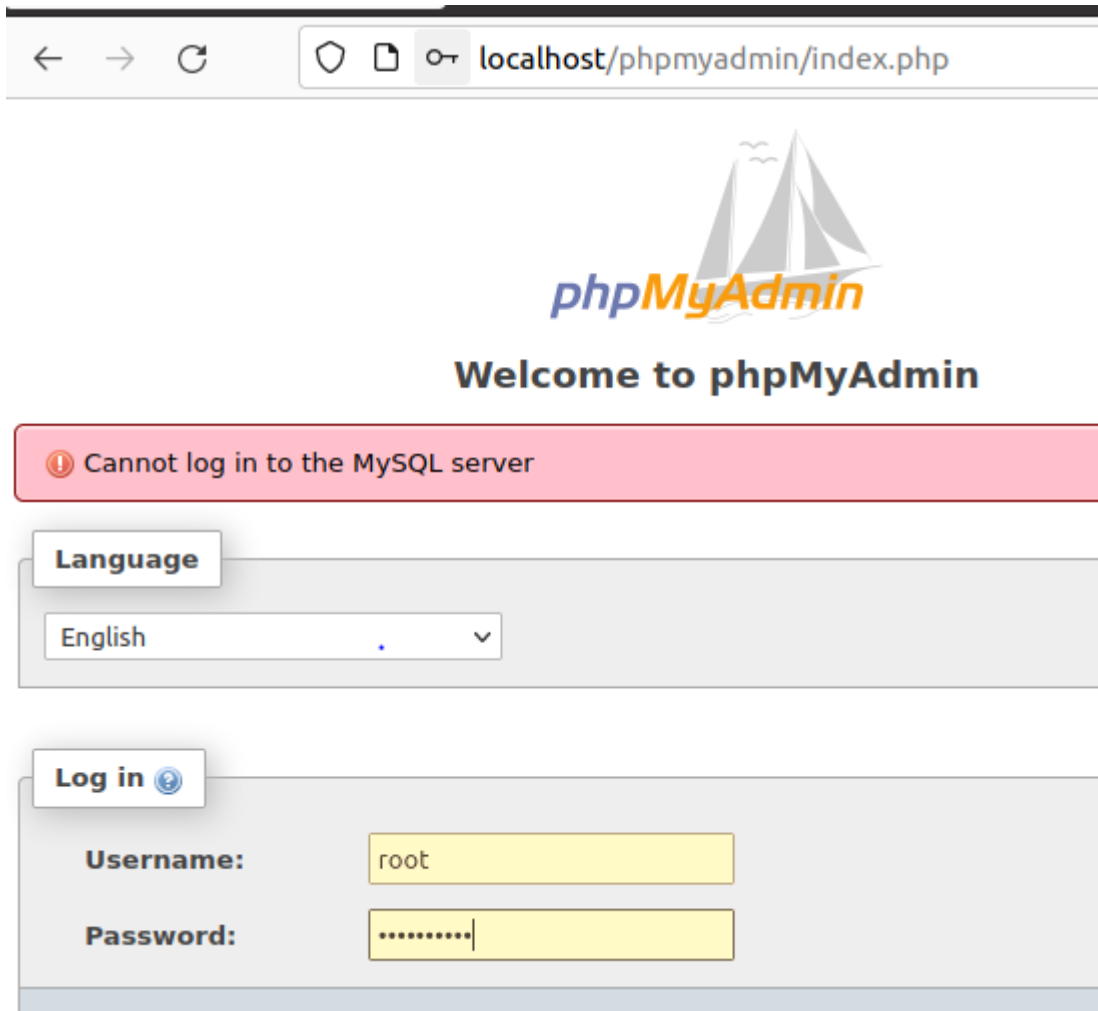
- Restart apache2



```
sudo systemctl restart apache2
```


- Check phpmyadmin


- Open a browser

<http://localhost/phpmyadmin>




← → ↻   localhost/phpmyadmin/index.php

  
**Welcome to phpMyAdmin**

 Cannot log in to the MySQL server

**Language**

English ▾

**Log in** 

**Username:**

**Password:**