

# ASSIGNMENT

## Networking & System Administration Lab

[Topic:LAMPP Installation]

Submitted By

Ancy Alexander

1<sup>st</sup> Year MCA Batch A

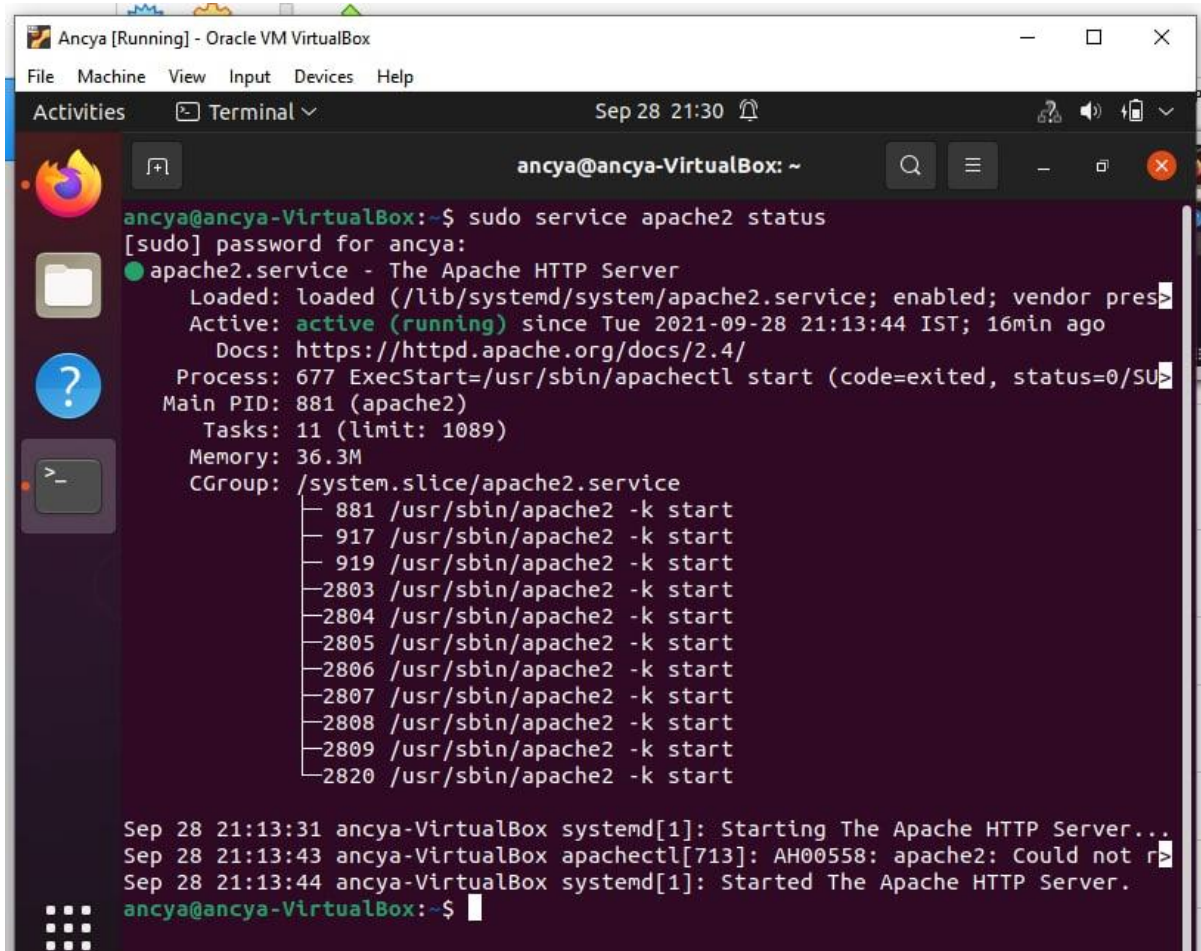
Roll No: 16

Submitted To

Rini Kurian

# 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

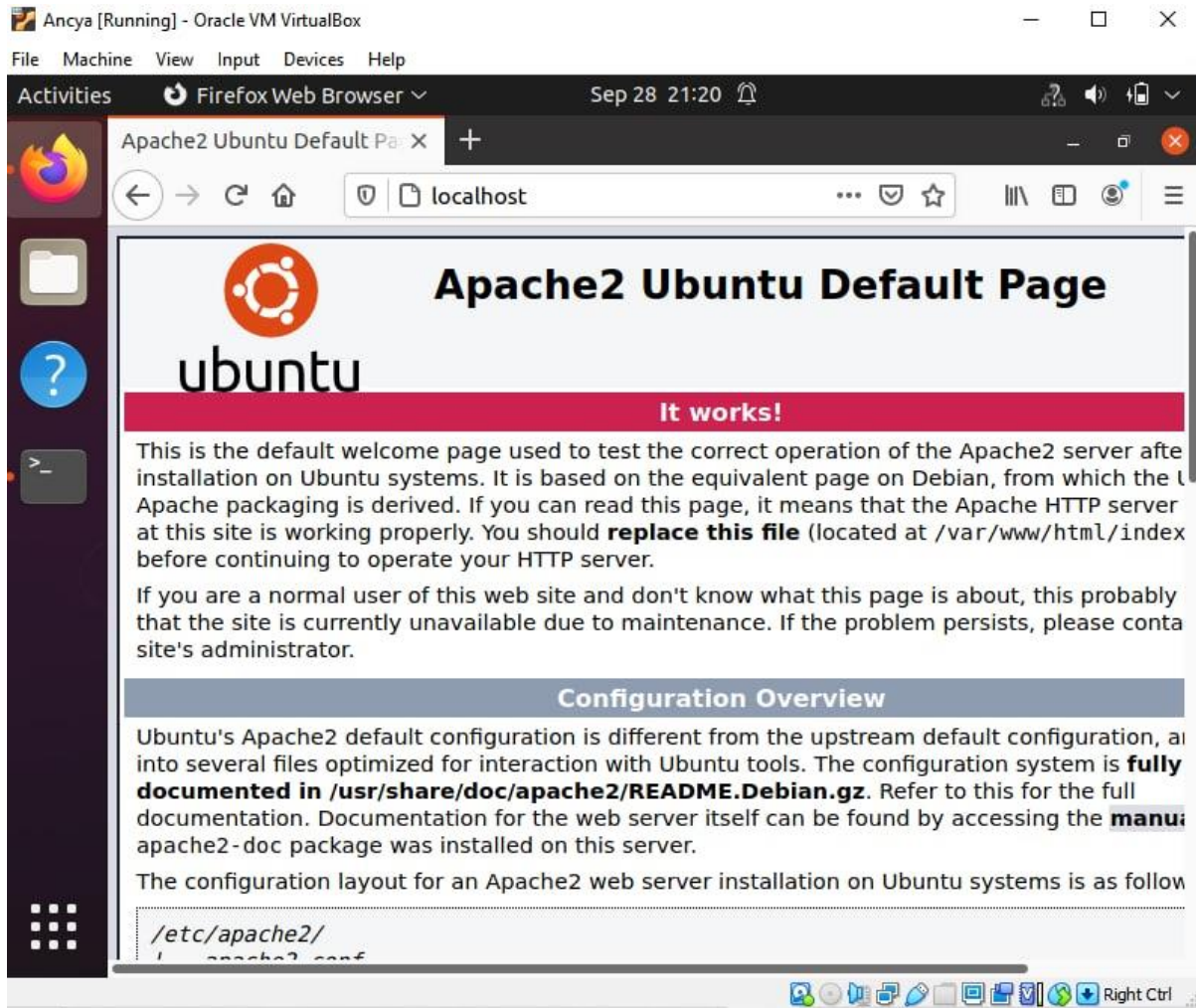


The screenshot shows a terminal window titled "Ancy [Running] - Oracle VM VirtualBox". The terminal output displays the command `sudo service apache2 status` and its results. The Apache2 service is shown as active and running. The output includes details about the service's configuration, the process ID (677), the main PID (881), and a list of tasks (881, 917, 919, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2820) all running `/usr/sbin/apache2 -k start`. At the bottom, system logs show the service starting at 21:13:31, failing at 21:13:43, and successfully starting at 21:13:44.

```
aneya@aneya-VirtualBox:~$ sudo service apache2 status
[sudo] password for aneya:
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor pres>
   Active: active (running) since Tue 2021-09-28 21:13:44 IST; 16min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 677 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SU>
  Main PID: 881 (apache2)
    Tasks: 11 (limit: 1089)
   Memory: 36.3M
    CGroup: /system.slice/apache2.service
           └─ 881 /usr/sbin/apache2 -k start
              917 /usr/sbin/apache2 -k start
              919 /usr/sbin/apache2 -k start
             2803 /usr/sbin/apache2 -k start
             2804 /usr/sbin/apache2 -k start
             2805 /usr/sbin/apache2 -k start
             2806 /usr/sbin/apache2 -k start
             2807 /usr/sbin/apache2 -k start
             2808 /usr/sbin/apache2 -k start
             2809 /usr/sbin/apache2 -k start
            2820 /usr/sbin/apache2 -k start

Sep 28 21:13:31 aneya-VirtualBox systemd[1]: Starting The Apache HTTP Server...
Sep 28 21:13:43 aneya-VirtualBox apachectl[713]: AH00558: apache2: Could not r>
Sep 28 21:13:44 aneya-VirtualBox systemd[1]: Started The Apache HTTP Server.
aneya@aneya-VirtualBox:~$
```

- Once installed, test by accessing your server's IP in your browser:  
`http://youripaddress`  
( find out your ip address using `ifconfig`)



## Install MariaDB

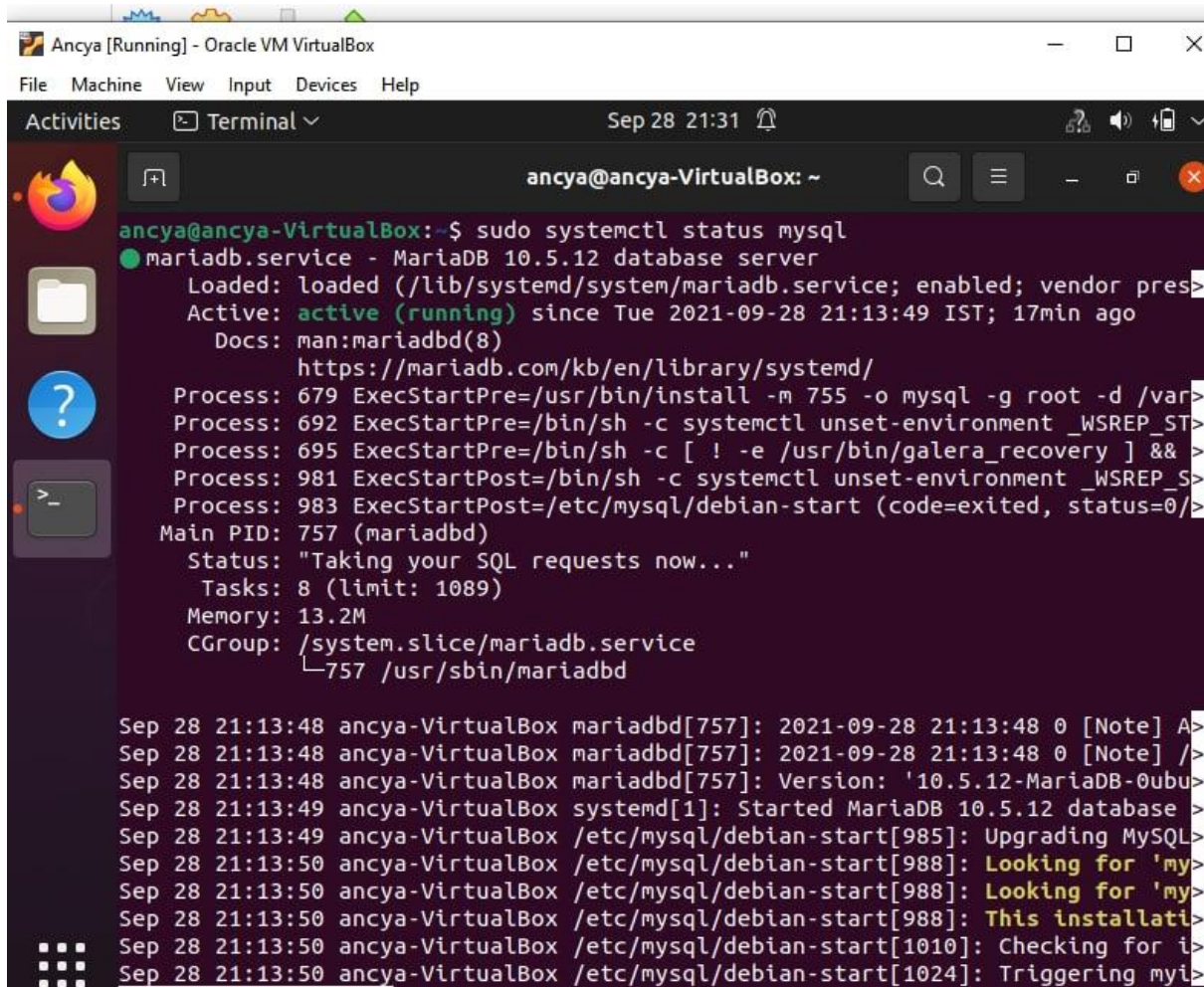
- Install mariaDB

sudo apt install mariadb-server mariadb-client

- Check mariadb Installation

sudo systemctl status mysql

(if it is not working sudo systemctl start mysql )



The screenshot shows a terminal window titled "Ancy [Running] - Oracle VM VirtualBox". The terminal output displays the status of the MySQL service using the command `sudo systemctl status mysql`. The output indicates that the service is active and running. Below the status information, there are several log messages from the systemd journal, including notes about the service's version and the start of the MySQL database.

```
ancya@ancya-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 21:13:49 IST; 17min ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 679 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var>
   Process: 692 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_ST>
   Process: 695 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && >
   Process: 981 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_S>
   Process: 983 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/>
  Main PID: 757 (mariadb)
    Status: "Taking your SQL requests now..."
     Tasks: 8 (limit: 1089)
    Memory: 13.2M
    CGroup: /system.slice/mariadb.service
            └─757 /usr/sbin/mariadb

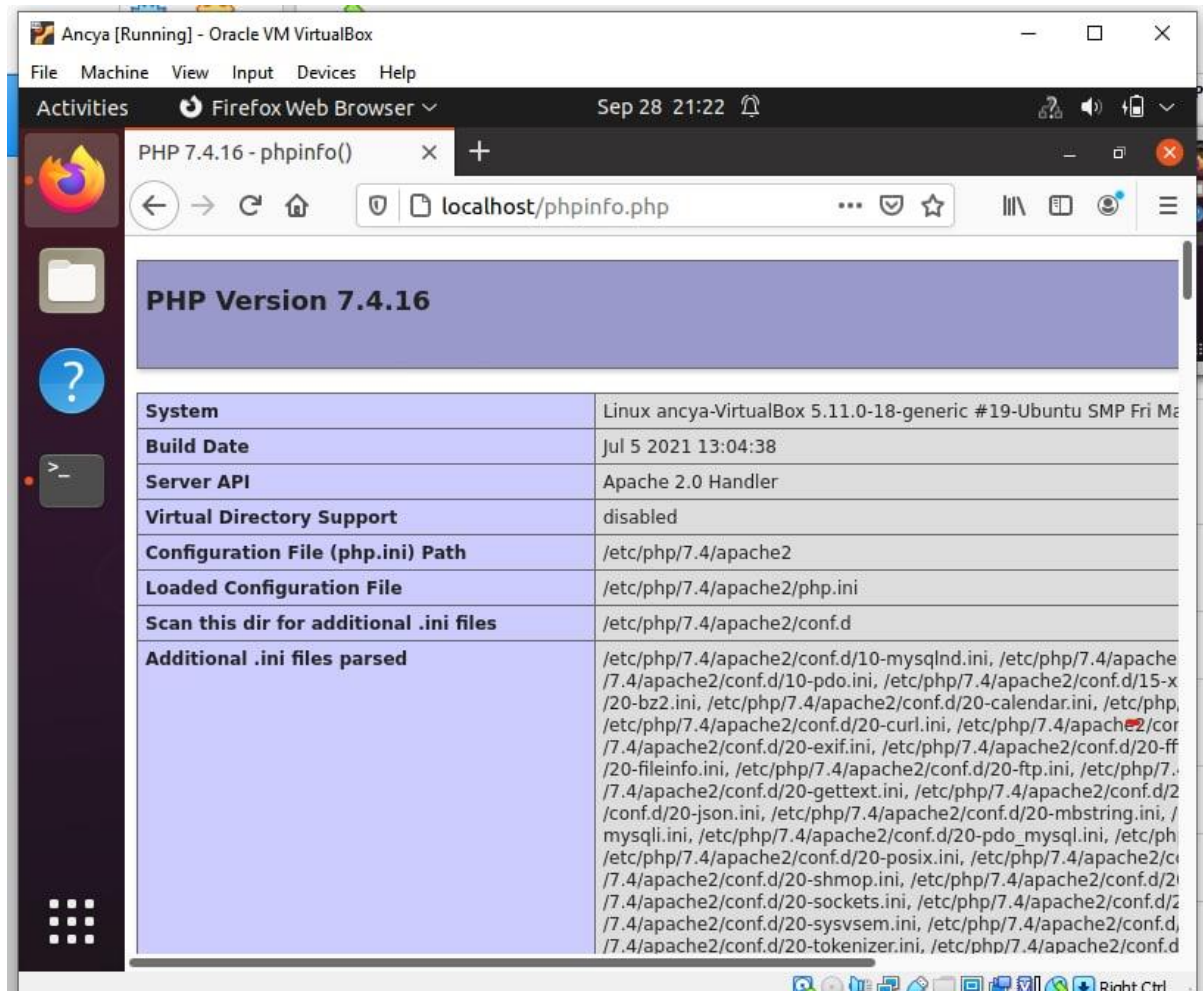
Sep 28 21:13:48 ancy-VirtualBox mariadb[757]: 2021-09-28 21:13:48 0 [Note] A>
Sep 28 21:13:48 ancy-VirtualBox mariadb[757]: 2021-09-28 21:13:48 0 [Note] />
Sep 28 21:13:48 ancy-VirtualBox mariadb[757]: Version: '10.5.12-MariaDB-0ubu>
Sep 28 21:13:49 ancy-VirtualBox systemd[1]: Started MariaDB 10.5.12 database >
Sep 28 21:13:49 ancy-VirtualBox /etc/mysql/debian-start[985]: Upgrading MySQL>
Sep 28 21:13:50 ancy-VirtualBox /etc/mysql/debian-start[988]: Looking for 'my>
Sep 28 21:13:50 ancy-VirtualBox /etc/mysql/debian-start[988]: Looking for 'my>
Sep 28 21:13:50 ancy-VirtualBox /etc/mysql/debian-start[988]: This installati>
Sep 28 21:13:50 ancy-VirtualBox /etc/mysql/debian-start[1010]: Checking for i>
Sep 28 21:13:50 ancy-VirtualBox /etc/mysql/debian-start[1024]: Triggering myi>
```

## Install PHP and commonly used modules

- `sudo apt install php libapache2-mod-php phpopcache php-cli php-gd php-curl php-mysql`
- Restart apache2
  - `sudo systemctl restart apache2`
- Now you can check php installation
  - `sudo echo "" | sudo tee -a /var/www/html/phpinfo.php >`
  - `/dev/null`
- Open a browser
  - `http://127.0.0.1/phpinfo.php`



```
ancya@ancya-VirtualBox:~$ php -v
PHP 7.4.16 (cli) (built: Jul  5 2021 13:04:38) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
    with Zend OPcache v7.4.16, Copyright (c), by Zend Technologies
ancya@ancya-VirtualBox:~$
```



## Install phpmyadmin

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

(It asks for webserver select apache2, select dbconfiguration and set password)

- Restart apache2

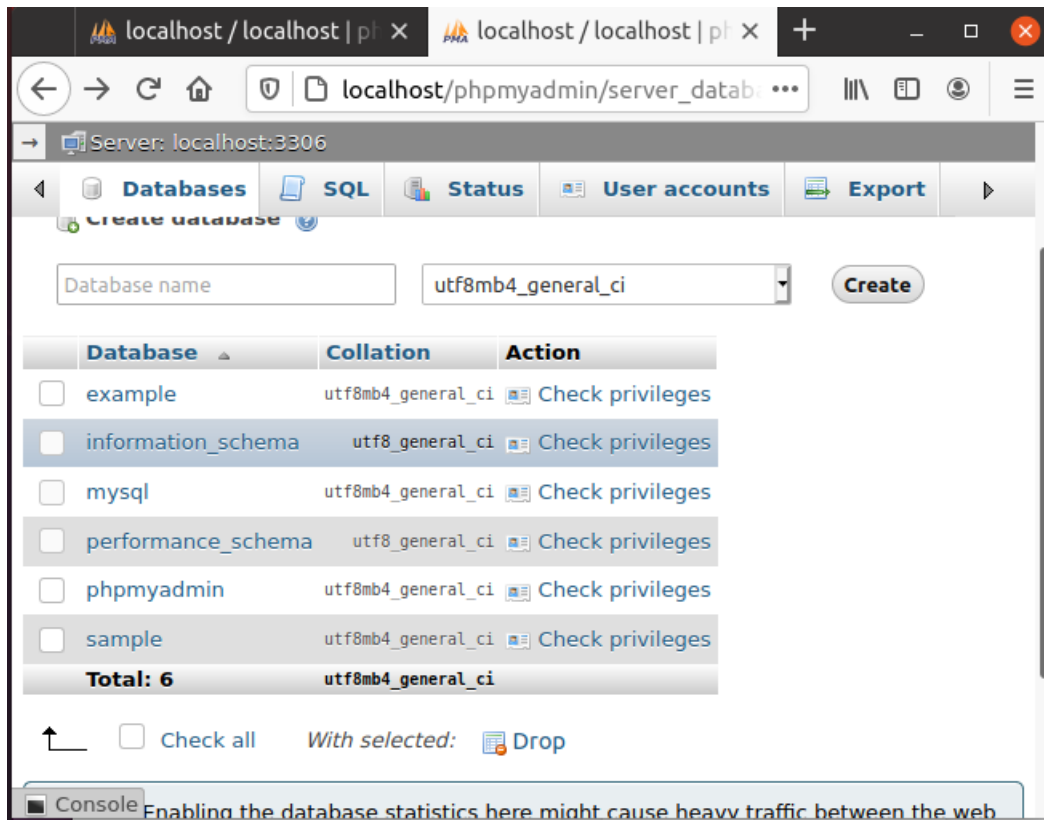
```
sudo systemctl restart apache2
```

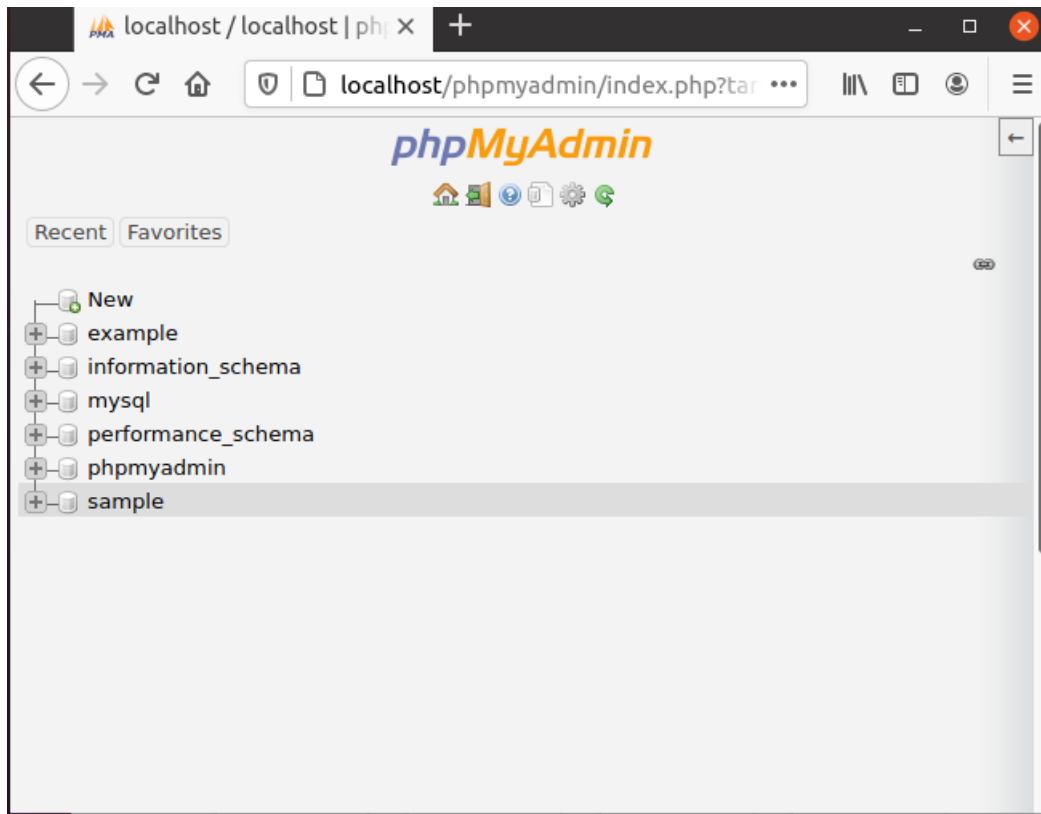
- Check phpmyadmin

Open a browser <http://localhost/phpmyadmin>

username : root

password : yourpassword





```
MariaDB [(none)]> create database example;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| example  |
| information_schema |
| mysql    |
| performance_schema |
| phpmyadmin |
| sample   |
+-----+
6 rows in set (0.001 sec)

MariaDB [(none)]> 
```