NETWORKING & SYSTEM ADMINISTRATION LAB

LAMP INSTALLATION PROCEDURE

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Install Apache2

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
```

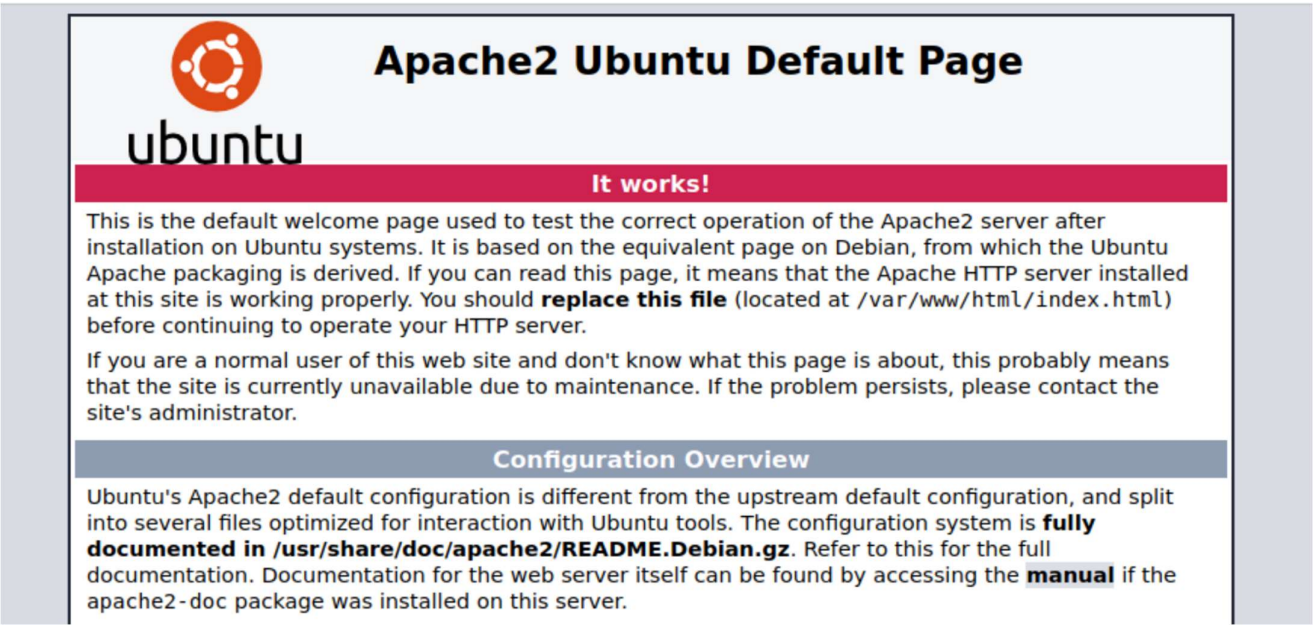
If it is not working !

```
sudo systemctl stop apache2  # to stop if running
sudo systemctl start apache2 # to start if not running
```

Once installed, test by accessing your server's IP in your browser:

```
http://127.0.0.1/
http://localhost/
```

OUTPUT :


Apache2 Ubuntu Default Page
ubuntu
It works!
This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should replace this file (located at /var/www/html/index.html) before continuing to operate your HTTP server.
If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.
Configuration Overview
Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is fully documented in /usr/share/doc/apache2/README.Debian.gz. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the manual if the apache2-doc package was installed on this server.

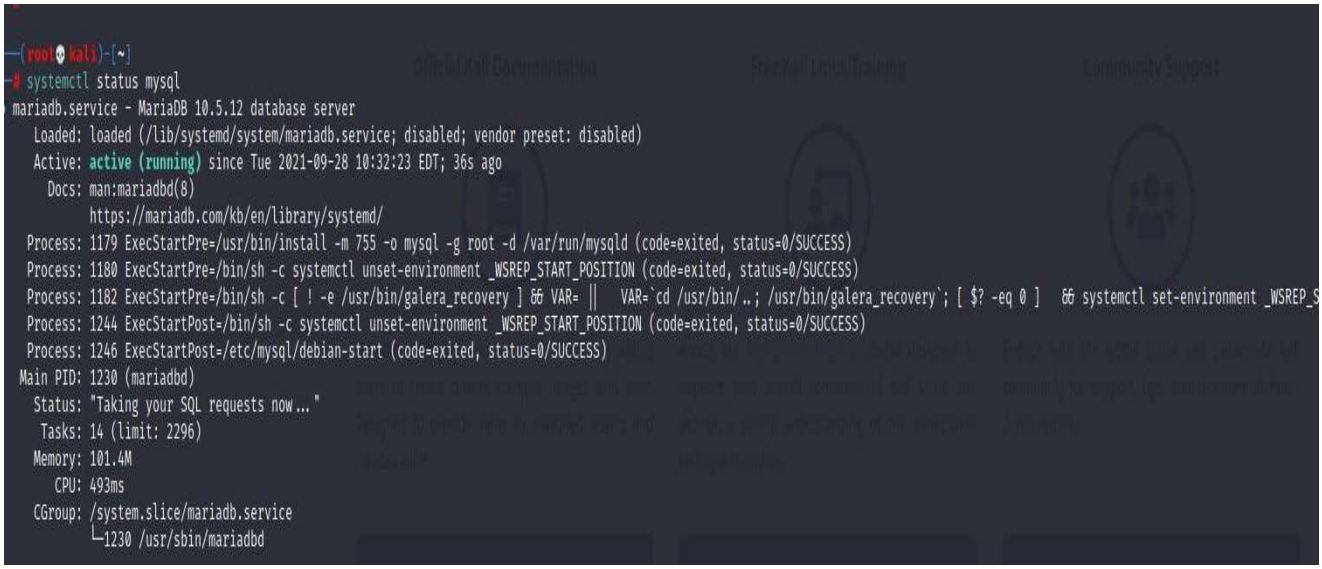
Install mariadb

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

sudo systemctl status mysql     # to check status

sudo systemctl start mysql      # if not running

sudo mysql_secure_installation  # Secure your newly installed MariaDB servic
```



Install PHP and commonly used modules

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

sudo systemctl restart apache2
```

Test PHP Processing on Web Server

```
sudo nano /var/www/html/phpinfo.php
```

Inside the file, type in the valid PHP code:

```
<?php
   phpinfo ();
?>
```

Press CTRL + X to save and close the file. Press y and ENTER to confirm
Open a browser and type in your IP address/phpinfo.php

```
http://127.0.0.1/phpinfo.php
```

OUTPUT :

PHP Version 7.4.3

System	Linux kmabhijith-VirtualBox 5.11.0-27-generic #29~20.04.1-Ubuntu SMP Wed Aug 11 15:58:17 UTC 2021 x86_64
Build Date	Aug 13 2021 05:39:12
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/7.4/apache2
Loaded Configuration File	/etc/php/7.4/apache2/php.ini
Scan this dir for additional .ini files	/etc/php/7.4/apache2/conf.d
Additional .ini files parsed	/etc/php/7.4/apache2/conf.d/10-mysqlnd.ini, /etc/php/7.4/apache2/conf.d/10-opcache.ini, /etc/php/7.4/apache2/conf.d/10-pdo.ini, /etc/php/7.4/apache2/conf.d/15-xml.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-ctype.ini, /etc/php/7.4/apache2/conf.d/20-curl.ini, /etc/php/7.4/apache2/conf.d/20-dom.ini, /etc/php/7.4/apache2/conf.d/20-exif.ini, /etc/php/7.4/apache2/conf.d/20-ffi.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-gd.ini, /etc/php/7.4/apache2/conf.d/20-gettext.ini, /etc/php/7.4/apache2/conf.d/20-iconv.ini, /etc/php/7.4/apache2/conf.d/20-json.ini, /etc/php/7.4/apache2/conf.d/20-mbstring.ini, /etc/php/7.4/apache2/conf.d/20-

Install phpmyadmin

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

sudo systemctl restart apache2
```

Open a browser : http://localhost/phpmyadmin
username : root
password : yourpasswordIf phpmyadmin page not found :

```
nano /etc/apache2/apache2.conf
```

Add this line to last of the file.
Press CTRL + X to save and close the file. Press y and ENTER to confirm

```
Include /etc/phpmyadmin/apache.conf
```

restart apache2 - now try : http://localhost/phpmyadmin

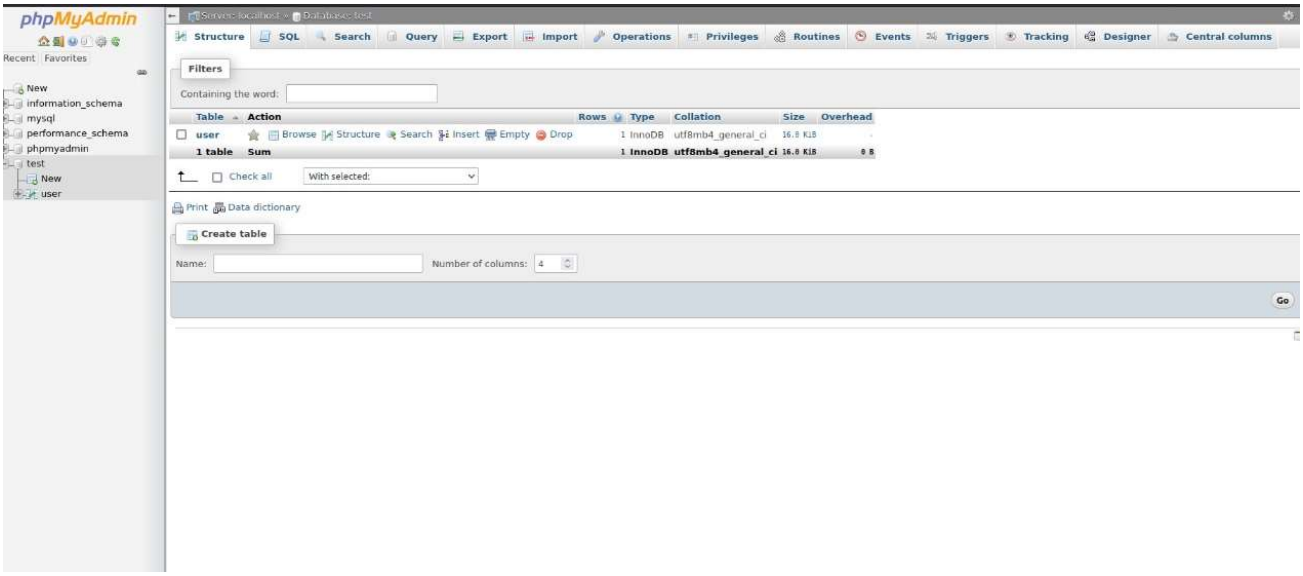
```
sudo systemctl restart apache2
```

If any problem for login run the following command

```
sudo mysql
ALTER USER root@localhost IDENTIFIED  BY "yourpassword";
```

OUTPUT :

phpMyAdmin
Welcome to phpMyAdmin
Language
English
Log in
Username:
root
Password:
Go


phpMyAdmin
Recent Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test
New
user
Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Tracking Designer Central columns
Filters
Containing the word:
Table Action Rows Type Collation Size Overhead
user Browse Structure Search Insert Empty Drop 1 InnoDB utf8mb4_general_ci 16.0 KiB
1 table Sum 1 InnoDB utf8mb4_general_ci 16.0 KiB 0 B
Check all With selected:
Print Data dictionary
Create table
Name:
Number of columns: 4
Go