

# **ASSIGNMENT**

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**[Topic:LAMPP Installation]**

## 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

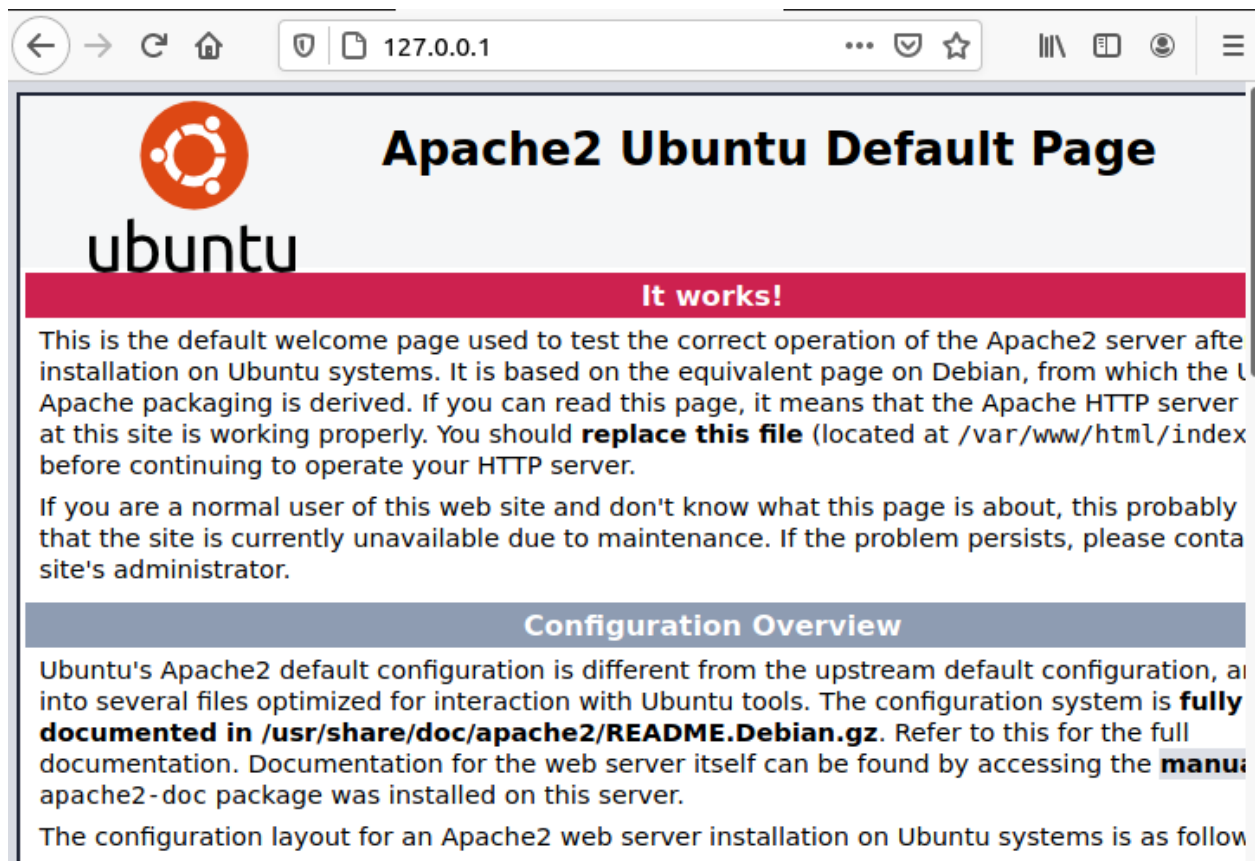
```
ashtami@ashtami-VirtualBox:~$ sudo systemctl status apache2
[sudo] password for ashtami:
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2021-09-28 10:54:11 EDT; 3min 8s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 632 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 759 (apache2)
    Tasks: 6 (limit: 1208)
   Memory: 14.7M
    CGroup: /system.slice/apache2.service
            └─759 /usr/sbin/apache2 -k start
              └─798 /usr/sbin/apache2 -k start
                └─799 /usr/sbin/apache2 -k start
                  └─800 /usr/sbin/apache2 -k start
                    └─801 /usr/sbin/apache2 -k start
                      └─802 /usr/sbin/apache2 -k start

Sep 28 10:54:00 ashtami-VirtualBox systemd[1]: Starting The Apache HTTP Server:
Sep 28 10:54:10 ashtami-VirtualBox apachectl[674]: [Tue Sep 28 10:54:10.296693]
Sep 28 10:54:10 ashtami-VirtualBox apachectl[674]: AH00558: apache2: Could not
Sep 28 10:54:11 ashtami-VirtualBox systemd[1]: Started The Apache HTTP Server.
lines 1-20/20 (END)
```

- 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 )

```
ashtami@ashtami-VirtualBox:~$ sudo systemctl status mariadb
[sudo] password for ashtami:
● mariadb.service - MariaDB 10.3.31 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2021-09-28 10:54:16 EDT; 31min ago
     Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 641 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var>
   Process: 681 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_ST>
   Process: 685 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] &&>
   Process: 863 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_S>
   Process: 867 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/>
  Main PID: 744 (mysqld)
    Status: "Taking your SQL requests now..."
     Tasks: 30 (limit: 1208)
    Memory: 15.2M
     CGroup: /system.slice/mariadb.service
             └─744 /usr/sbin/mysqld

Sep 28 10:54:11 ashtami-VirtualBox mysqld[744]: 2021-09-28 10:54:11 0 [Note] />
Sep 28 10:54:16 ashtami-VirtualBox systemd[1]: Started MariaDB 10.3.31 databas>
Sep 28 10:54:16 ashtami-VirtualBox /etc/mysql/debian-start[872]: Upgrading MyS>
Sep 28 10:54:17 ashtami-VirtualBox /etc/mysql/debian-start[876]: Looking for '>
Sep 28 10:54:17 ashtami-VirtualBox /etc/mysql/debian-start[876]: Looking for '>
Sep 28 10:54:17 ashtami-VirtualBox /etc/mysql/debian-start[876]: Version check>
```

## Install PHP and commonly used modules

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

php-mysql

- Restart apache2
  - sudo systemctl restart apache2
- Now you can check php installation

- `sudo echo "<?php phpinfo(); ?>" | sudo tee -a /var/www/html/phpinfo.php >`
- `/dev/null`
- Open a browser
  - `http://127.0.0.1/phpinfo.php`

```
ashtami@ashtami-VirtualBox:~$ php -v
PHP 7.4.3 (cli) (built: Jul  5 2021 15:13:35) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
with Zend OPcache v7.4.3, Copyright (c), by Zend Technologies
```

## PHP Version 7.4.3

<b>System</b>	Linux ashtami-VirtualBox 5.8.0-43-generic #49~20.0 x86_64
<b>Build Date</b>	Jul 5 2021 15:13:35
<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-mysqld.ini, /etc/php/7.4/apache2/conf.d/10-pdo.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-json.ini, /etc/php/7.4/apache2/conf.d/20-mysqli.ini, /etc/php/7.4/apache2/conf.d/20-openssl.ini, /etc/php/7.4/apache2/conf.d/20-pdo_mysql.ini

## **Install phpmyadmin**

```
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

Restore Session × localhost / localhost | php ×

localhost/phpmyadmin/server\_database...

Server: localhost:3306

Databases SQL Status User accounts Export

## Databases

Create database ?

Database name utf8mb4\_general\_ci Create

Database	Collation	Action
<input type="checkbox"/> information_schema	utf8_general_ci	<a href="#">Check privileges</a>
<input type="checkbox"/> mysql	utf8mb4_general_ci	<a href="#">Check privileges</a>
<input type="checkbox"/> performance_schema	utf8_general_ci	<a href="#">Check privileges</a>
<input type="checkbox"/> phpmyadmin	utf8mb4_general_ci	<a href="#">Check privileges</a>
<b>Total: 4</b>	<b>utf8mb4_general_ci</b>	

Console Check all With selected: Drop

```
ashtami@ashtami-VirtualBox:~$ sudo mysql -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 29
Server version: 10.3.31-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

```
MariaDB [(none)]> create database example;  
Query OK, 1 row affected (0.001 sec)
```

```
MariaDB [(none)]> show databases;
```

```
+-----+  
| Database |  
+-----+  
| example |  
| information_schema |  
| mysql |  
| performance_schema |  
| phpmyadmin |  
| sample |  
+-----+  
6 rows in set (0.001 sec)
```

