

Assignment

(LAMPP INSTALLATION)

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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

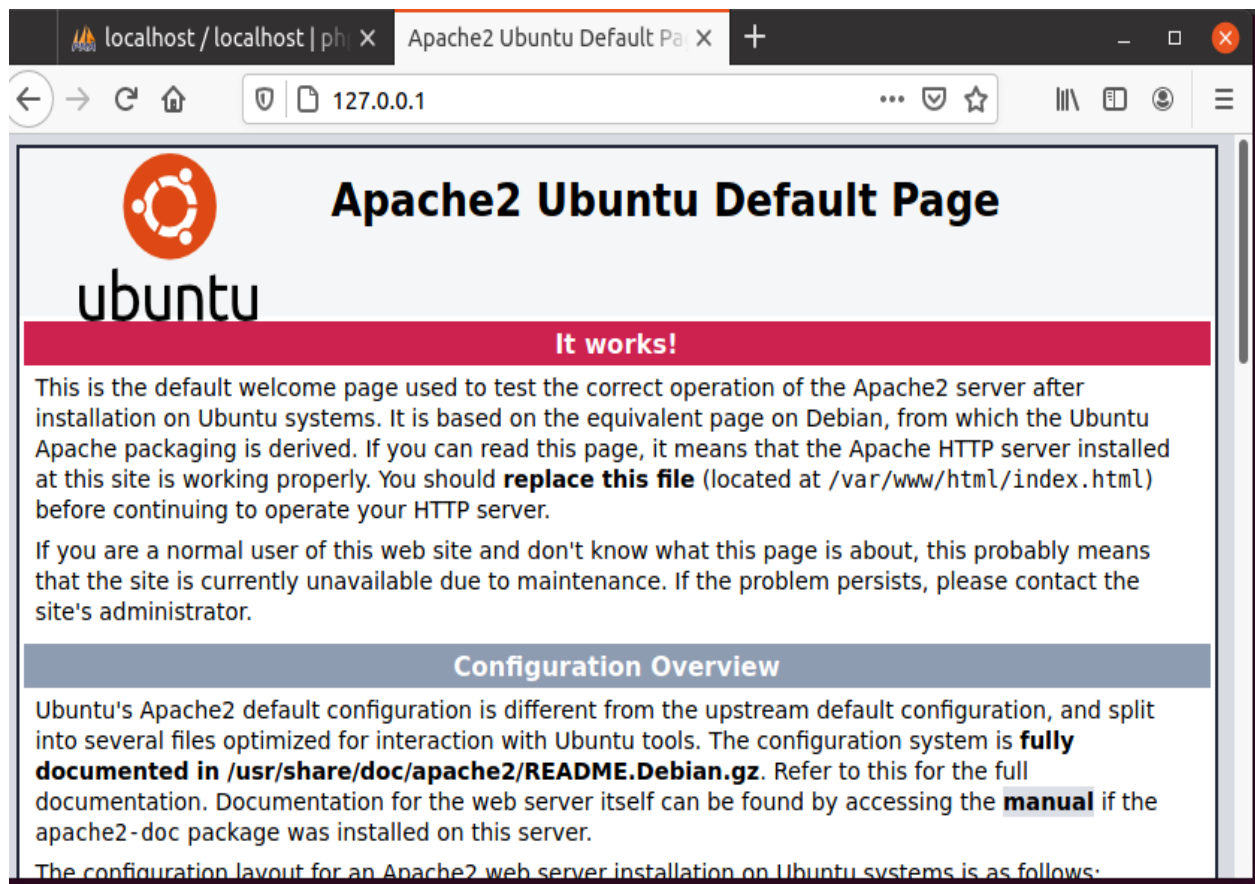
```
haritha@haritha-VirtualBox:~$ sudo systemctl status apache2
[sudo] password for haritha:
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2021-09-29 20:15:59 IST; 4min 15s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 668 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 807 (apache2)
    Tasks: 6 (limit: 2316)
   Memory: 19.1M
    CGroup: /system.slice/apache2.service
            └─807 /usr/sbin/apache2 -k start
              └─818 /usr/sbin/apache2 -k start
                └─819 /usr/sbin/apache2 -k start
                  └─820 /usr/sbin/apache2 -k start
                    └─821 /usr/sbin/apache2 -k start
                      └─822 /usr/sbin/apache2 -k start

Sep 29 20:15:49 haritha-VirtualBox systemd[1]: Starting The Apache HTTP Server:
Sep 29 20:15:59 haritha-VirtualBox apachectl[694]: AH00558: apache2: Could not
Sep 29 20:15:59 haritha-VirtualBox systemd[1]: Started The Apache HTTP Server.
lines 1-19/19 (END)
```

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

http://youripaddress

(find out your ip address using ifconfig)



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`)

```
haritha@haritha-VirtualBox:~$ sudo systemctl status mysql
● mariadb.service - MariaDB 10.3.31 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2021-09-30 20:23:46 IST; 34min ago
     Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
  Main PID: 777 (mysqld)
    Status: "Taking your SQL requests now..."
     Tasks: 30 (limit: 2316)
    Memory: 87.1M
    CGroup: /system.slice/mariadb.service
            └─777 /usr/sbin/mysqld

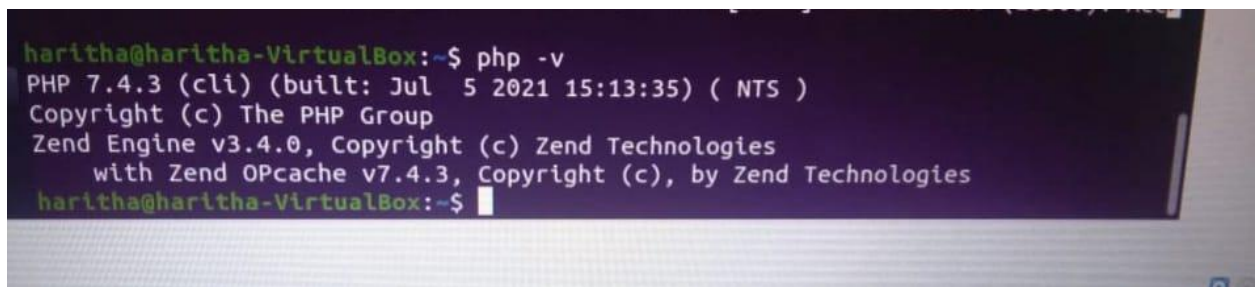
Sep 30 20:23:37 haritha-VirtualBox mysqld[777]: 2021-09-30 20:23:36 0 [Note] />
Sep 30 20:23:46 haritha-VirtualBox systemd[1]: Started MariaDB 10.3.31 databas>
Sep 30 20:23:46 haritha-VirtualBox /etc/mysql/debian-start[970]: Upgrading MyS>
Sep 30 20:23:48 haritha-VirtualBox /etc/mysql/debian-start[973]: Looking for '>
Sep 30 20:23:48 haritha-VirtualBox /etc/mysql/debian-start[973]: Looking for '>
Sep 30 20:23:48 haritha-VirtualBox /etc/mysql/debian-start[973]: Version check>
Sep 30 20:23:48 haritha-VirtualBox /etc/mysql/debian-start[973]: ERROR 1045 (2>
Sep 30 20:23:48 haritha-VirtualBox /etc/mysql/debian-start[973]: FATAL ERROR:>
Sep 30 20:23:48 haritha-VirtualBox /etc/mysql/debian-start[1003]: Checking for>
Sep 30 20:23:48 haritha-VirtualBox /etc/mysql/debian-start[1006]: ERROR 1045 (28000): Acc>
Sep 30 20:23:48 haritha-VirtualBox debian-start[1006]: ERROR 1045 (28000): Acc>
```

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

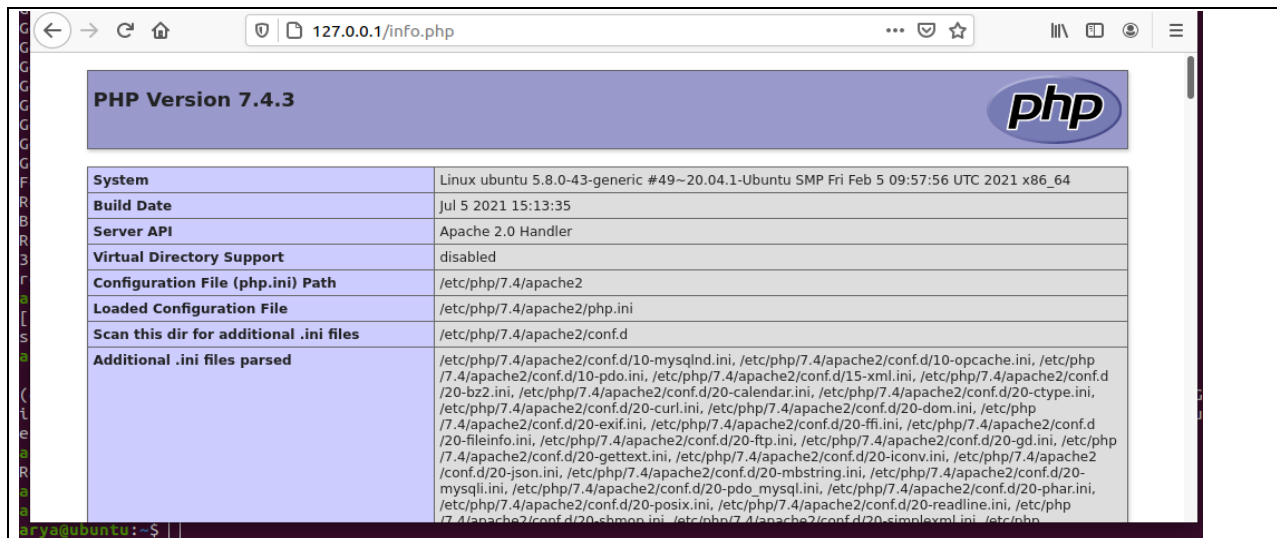
`sudo echo "<?php phpinfo(); ?>" | sudo tee -a /var/www/html/phpinfo.php > /dev/null`

A terminal window screenshot showing the command `php -v` being executed. The output displays the PHP version as 7.4.3 (cli), built on July 5, 2021, at 15:13:35, in NTS mode. It also shows the copyright for The PHP Group and the Zend Engine v3.4.0, which includes Zend OPcache v7.4.3.

```
haritha@haritha-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
haritha@haritha-VirtualBox:~$
```

Open a browser

<http://127.0.0.1/phpinfo.php>



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`

```
arya@ubuntu:~$ sudo mysql -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 42
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 sample;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| phpmyadmin |
| sample |
+-----+
5 rows in set (0.000 sec)

MariaDB [(none)]>
```


Check phpmyadmin

Open a browser

<http://localhost/phpmyadmin>

username : root

password : yourpassword



Welcome to phpMyAdmin

Language

English

Log in

Username: root

Password:

Go

phpMyAdmin

Recent Favorites

New

information_schema

mysql

performance_schema

phpmyadmin

localhost/phpmyadmin/server_databases.php

Server: localhost:3306

DatabasesSQLStatusUser accountsExportImportSettingsReplicationMore

Databases

Create database

Database nameutf8mb4_general_ciCreate

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

☐ Check allWith selected: [Drop](#)