



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
```

```
zsh: Corrupt history file /root/.zsh_history
(root@kali) ~
# systemctl start apache2

(root@kali) ~
# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; disabled; vendor preset: disabled)
   Active: active (running) since Tue 2021-09-28 10:30:33 EDT; 22s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 1102 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 1113 (apache2)
    Tasks: 6 (limit: 2296)
   Memory: 21.2M
      CPU: 175ms
   CGroup: /system.slice/apache2.service
           └─1113 /usr/sbin/apache2 -k start
             1115 /usr/sbin/apache2 -k start
             1116 /usr/sbin/apache2 -k start
             1117 /usr/sbin/apache2 -k start
             1118 /usr/sbin/apache2 -k start
             1119 /usr/sbin/apache2 -k start
```

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 :



ubuntu

Apache2 Ubuntu Default Page

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 service
```

```
(root@kali)~# systemctl status mysql
mariadb.service - MariaDB 10.5.12 database server
Loaded: loaded (/lib/systemd/system/mariadb.service; disabled; vendor preset: disabled)
Active: active (running) since Tue 2021-09-28 10:32:23 EDT; 36s ago
Docs: man:mariadb(8)
     https://mariadb.com/kb/en/library/systemd/
Process: 1179 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/mysql (code=exited, status=0/SUCCESS)
Process: 1180 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exited, status=0/SUCCESS)
Process: 1182 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && VAR= || VAR='cd /usr/bin/..; /usr/bin/galera_recovery'; [ $? -eq 0 ] && systemctl set-environment _WSREP_S
Process: 1244 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exited, status=0/SUCCESS)
Process: 1246 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS)
Main PID: 1230 (mariabdd)
Status: "Taking your SQL requests now..."
Tasks: 14 (limit: 2296)
Memory: 101.4M
CPU: 493ms
CGroup: /system.slice/mariadb.service
        └─1230 /usr/sbin/mariabdd
```

Install PHP and commonly used modules

```
sudo apt install php libapache2-mod-php php-openssl 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-mysqld.ini, /etc/php/7.4/apache2/conf.d/10-openssl.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-ison.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 :



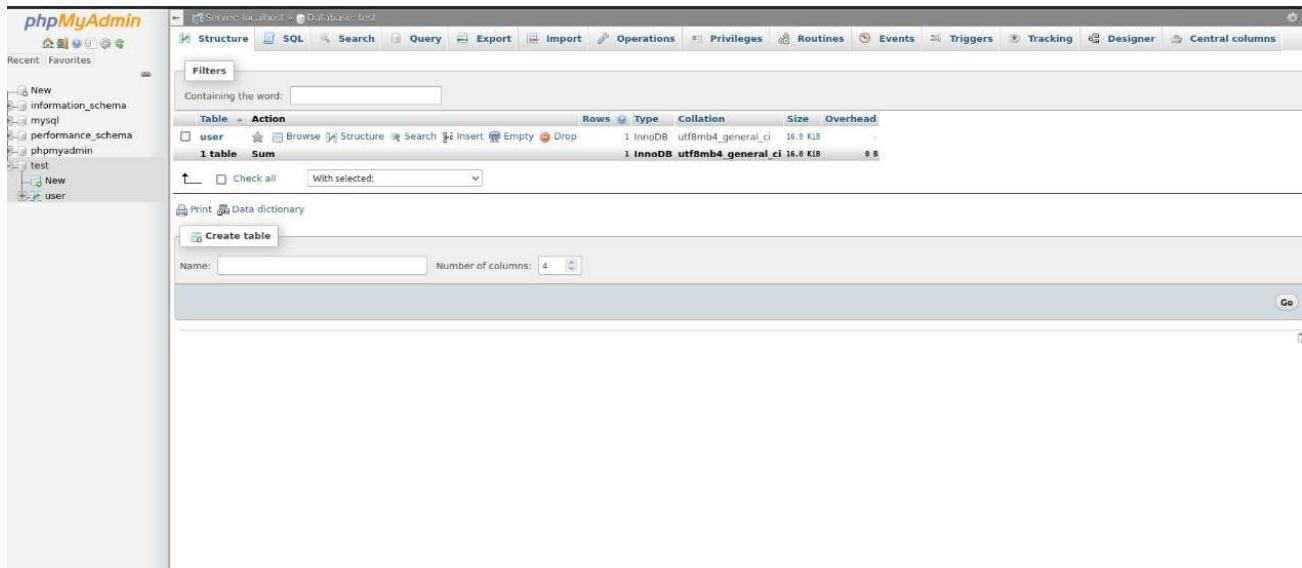
Welcome to phpMyAdmin

Language: English

Log in

Username:

Password:



The screenshot shows the phpMyAdmin interface with the 'Structure' tab selected. The left sidebar shows a tree view of databases and tables, including 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', 'test', and 'user'. The main area displays the structure of the 'user' table, which has one column named 'Sum' of type 'InnoDB utf8mb4_general_ci 16.0 KiB'. Below the table structure, there is a 'Create table' section with a 'Name' field and a 'Number of columns' dropdown set to 4. The 'Go' button is visible at the bottom right of the 'Create table' section.

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	0.0

Filters: Containing the word:

Print Data dictionary

Create table

Name: Number of columns: