

Networking and System Administration Lab

Lab Assignment: LAMP Stack installation

Antony Scaria
Roll No: 23
RMCA-A Sem-II

The name LAMP is an acronym of the following programs:

Linux Operating System

Apache HTTP Server

MySQL database management system

PHP programming language

1. Installation of Apache Server.

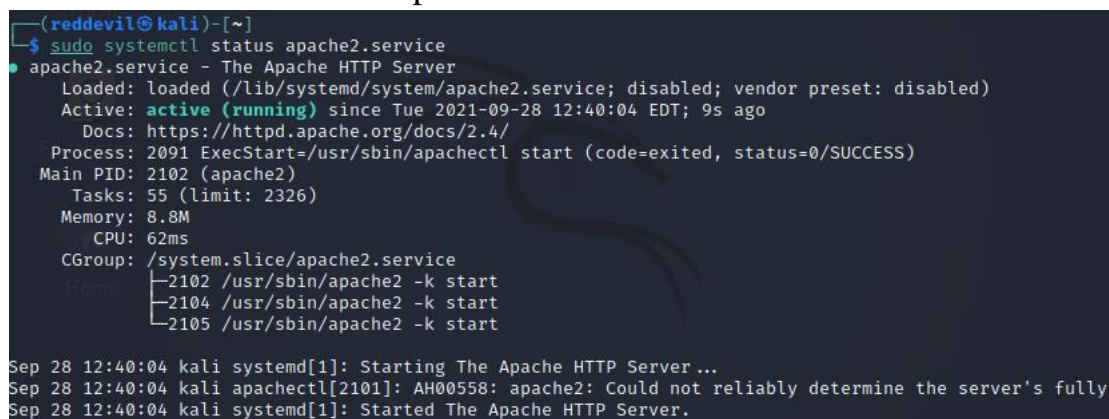
Command:

```
sudo apt-get install apache2
```

Press y (yes) and hit ENTER to permit the installation

Check if Apache is installed correctly by running the Apache service status. Use the following the command:

```
sudo service apache2 status
```



```
(reddevil@kali)-[~]
$ sudo systemctl status apache2.service
● 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 12:40:04 EDT; 9s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 2091 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 2102 (apache2)
    Tasks: 55 (limit: 2326)
   Memory: 8.8M
      CPU: 62ms
   CGroup: /system.slice/apache2.service
           └─2102 /usr/sbin/apache2 -k start
             └─2104 /usr/sbin/apache2 -k start
               └─2105 /usr/sbin/apache2 -k start

Sep 28 12:40:04 kali systemd[1]: Starting The Apache HTTP Server ...
Sep 28 12:40:04 kali apachectl[2101]: AH00558: apache2: Could not reliably determine the server's fully
Sep 28 12:40:04 kali systemd[1]: Started The Apache HTTP Server.
```

2. Installation of MariaDB

MariaDB is an open source relational database management system (RDBMS)

Command:

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

Check mariadb Installation

```
sudo systemctl status mysql
```

(if it is not working sudo systemctl start mysql)

```

(reddevil@kali)-[~]
$ sudo 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 12:43:23 EDT; 2s ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 2191 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var/run/mysqld (code=exited, status=0/SUCCESS)
   Process: 2192 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exited, status=0/SUCCESS)
   Process: 2194 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] && VAR= || VAR=`cd /usr/>
   Process: 2253 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exited, status=0/SUCCESS)
   Process: 2255 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS)
  Main PID: 2241 (mariadb)
    Status: "Taking your SQL requests now..."
     Tasks: 12 (limit: 2326)
    Memory: 108.3M
       CPU: 1.058s
   CGroup: /system.slice/mariadb.service
           └─2241 /usr/sbin/mariadb

```

3. Install PHP

Command:

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

Restart apache2

```
sudo systemctl restart apache2
```

check installation

open <http://127.0.0.1/phpinfo.php> in any browser

4. Install phpmyadmin

Command:

```
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



Welcome to phpMyAdmin

Language

English

Log in

Username:

admin

Password:

....

Go

phpMyAdmin

Recent Favorites

Information_schema
laravel
mystie
mystie1
mysql
performance_schema
phpmyadmin

localhost/phpmyadmin/index.php

Server: localhost:3306

Databases SQL Status User accounts Export Import Settings Replication Variables Charsets Engines Plugins

General settings

Change password

Server connection collation: utf8mb4_unicode_ci

Appearance settings

Language: English

Theme: pmahomme

Font size: 82%

More settings

Database server

- Server: Localhost via UNIX socket
- Server type: MariaDB
- Server connection: SSL is not being used
- Server version: 10.3.31-MariaDB-0ubuntu0.20.04.1 - Ubuntu 20.04
- Protocol version: 10
- User: admin@localhost
- Server charset: UTF-8 Unicode (utf8mb4)

Web server

- Apache/2.4.41 (Ubuntu)
- Database client version: libmysql - mysqlnd 7.4.3
- PHP extension: mysqli curl mbstring
- PHP version: 7.4.3

phpMyAdmin

- Version information: 4.9.5deb2
- Documentation
- Official Homepage
- Contribute
- Get support
- List of changes
- License

Console