Networking and System Administration Lab

Lab Assignment: LAMP Stack installation

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The name LAMP is an acronym of the following programs:
  Linux Operating System
  Apache HTTP Server
  MySQL database management system
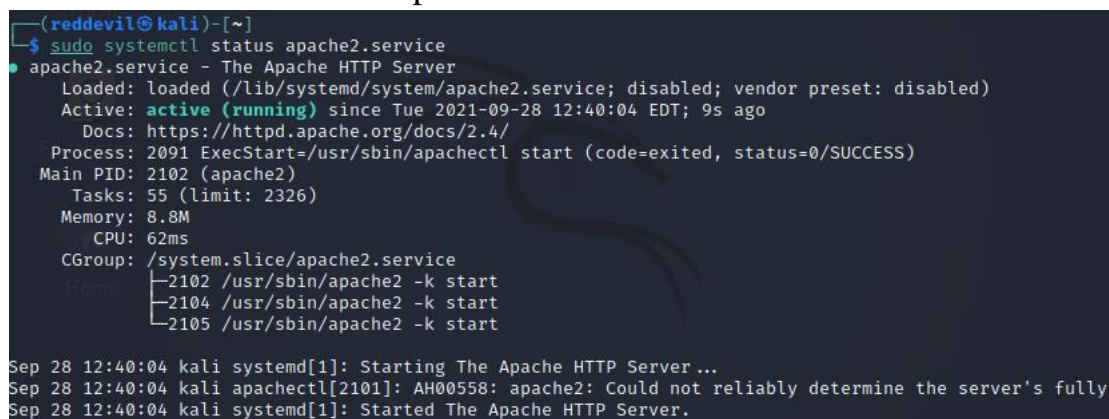 PHP programming language

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

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  ┌──(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                                                    1 ⚙
● 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:mariadbd(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=exite⟩
    Process: 2192 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_START_POSITION (code=exit⟩
    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=exi⟩
    Process: 2255 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/SUCCESS)
   Main PID: 2241 (mariadbd)
     Status: "Taking your SQL requests now..."
      Tasks: 12 (limit: 2326)
     Memory: 108.3M
        CPU: 1.058s
     CGroup: /system.slice/mariadb.service
             └─2241 /usr/sbin/mariadbd
```

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