

NETWORKING & SYSTEM ADMINISTRATION LAB
LAMP INSTALLATION

RADHIKA C
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Roll No : 13

Install apache

- **Update your system**

`sudo apt update`

- **Install Apache using apt:**

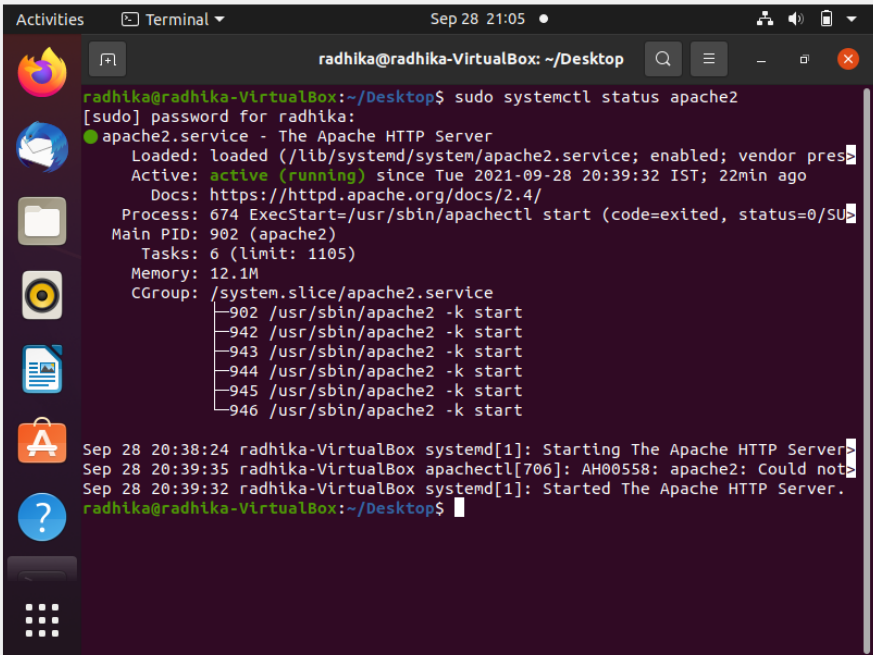
`sudo apt install apache2`

- **Confirm that Apache is now running with the following command:**

`sudo systemctl status apache2`

- **if it is not working**

`sudo systemctl start apache2`



The screenshot shows a terminal window titled 'radhika@radhika-VirtualBox: ~/Desktop'. The user has executed the command `sudo systemctl status apache2`. The output shows that the `apache2.service` is loaded and active (running). It provides details such as the loaded file path, active status since installation, documentation link, process ID, main PID, tasks, memory usage, and CGroup. At the bottom, there are system logs showing the start of the Apache HTTP Server.

```
radhika@radhika-VirtualBox:~/Desktop$ sudo systemctl status apache2
[sudo] password for radhika:
● 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 20:39:32 IST; 22min ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 674 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
   Main PID: 902 (apache2)
    Tasks: 6 (limit: 1105)
   Memory: 12.1M
   CGroup: /system.slice/apache2.service
           └─902 /usr/sbin/apache2 -k start
             └─942 /usr/sbin/apache2 -k start
               └─943 /usr/sbin/apache2 -k start
                 └─944 /usr/sbin/apache2 -k start
                   └─945 /usr/sbin/apache2 -k start
                     └─946 /usr/sbin/apache2 -k start

Sep 28 20:38:24 radhika-VirtualBox systemd[1]: Starting The Apache HTTP Server:
Sep 28 20:39:35 radhika-VirtualBox apachectl[706]: AH00558: apache2: Could not
Sep 28 20:39:32 radhika-VirtualBox systemd[1]: Started The Apache HTTP Server.
radhika@radhika-VirtualBox:~/Desktop$
```

Install mariadb

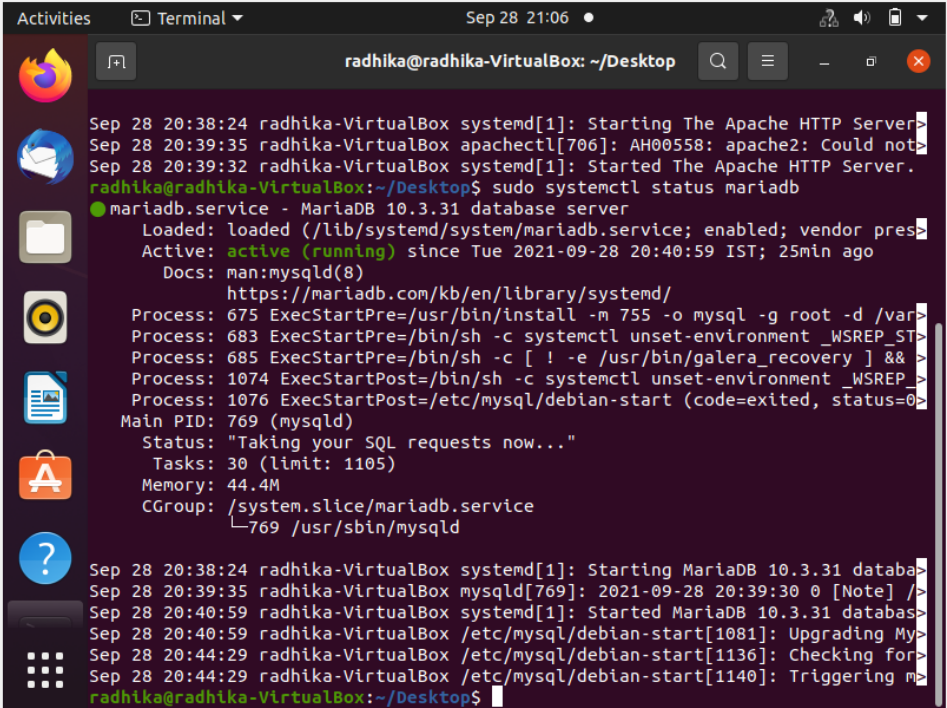
- **Install mariaDB**

`sudo apt install mariadb-server mariadb-client`

- **Check mariadb Installation**

`sudo systemctl status mysql`

(if it is not working `sudo systemctl start mysql`)



The screenshot shows a terminal window titled "radhika@radhika-VirtualBox: ~/Desktop" with a timestamp of "Sep 28 21:06". The terminal output displays system logs for the Apache HTTP Server and MariaDB installation. The Apache logs show it starting at 20:38:24 and 20:39:32, and failing to start at 20:39:35. The MariaDB logs show it starting at 20:38:24 and 20:40:59. The user then runs `sudo systemctl status mariadb`, which returns the following information:

```
● 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 20:40:59 IST; 25min ago
     Docs: man:mysqld(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 675 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var>
   Process: 683 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_ST>
   Process: 685 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] &&>
   Process: 1074 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_>
   Process: 1076 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0>
   Main PID: 769 (mysqld)
   Status: "Taking your SQL requests now..."
     Tasks: 30 (limit: 1105)
    Memory: 44.4M
    CGroup: /system.slice/mariadb.service
            └─769 /usr/sbin/mysqld
```

The terminal also shows the output of `sudo systemctl start mariadb`, which returns `radhika@radhika-VirtualBox:~/Desktop$`.

Install PHP

- **Install PHP**

```
sudo apt install php libapache2-mod-php php-openssl 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
```



Install phpmyadmin

- **Install phpmyadmin**

```
sudo apt install phpmyadmin php-mbstring php-zip php-gd php-json php-curl
```

(It ask for webserver select apache2, select db configuration and set password)

- **Restart apache2**

```
sudo systemctl restart apache2
```

- **Check phpmyadmin**

- **Open a browser**

<http://localhost/phpmyadmin>

