Networking & System Administration Lab LAMP installation

Submitted by:

Tom Joseph

MCA S2

Roll.No:36

Apache Installation

Steps

1. Update your system

Update the system using command sudo apt update

2. Install Apache using apt:

Install apache using the command **sudo apt install apache2**

3. Start apache

Using the command sudo service apache2 start

4. Confirm that Apache is now running with the following command:

Check the status of apache sudo systemctl status apache2

```
command 'states' from deb enscript (1.6.5.90-3)
See 'snap info <snapname>' for additional versions.
tom@tom-VirtualBox:~/Desktop$ sudo systemctl status apache2
apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor pres>Active: active (running) since Wed 2021-09-29 16:17:58 IST; 9min ago
        Docs: https://httpd.apache.org/docs/2.4/
    Process: 626 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SU>
   Main PID: 694 (apache2)
       Tasks: 6 (limit: 2296)
     Memory: 28.1M
      CGroup: /system.slice/apache2.service
                 -694 /usr/sbin/apache2 -k start
                 -751 /usr/sbin/apache2 -k start
-752 /usr/sbin/apache2 -k start
-754 /usr/sbin/apache2 -k start
-755 /usr/sbin/apache2 -k start
                 -756 /usr/sbin/apache2 -k start
Sep 29 16:17:57 tom-VirtualBox systemd[1]: Starting The Apache HTTP Server...
Sep 29 16:17:58 tom-VirtualBox apachectl[658]: AH00558: apache2: Could not rel>
Sep 29 16:17:58 tom-VirtualBox systemd[1]: Started The Apache HTTP Server.
lines 1-19/19 (FND)
```

Maria dB Installation

Steps

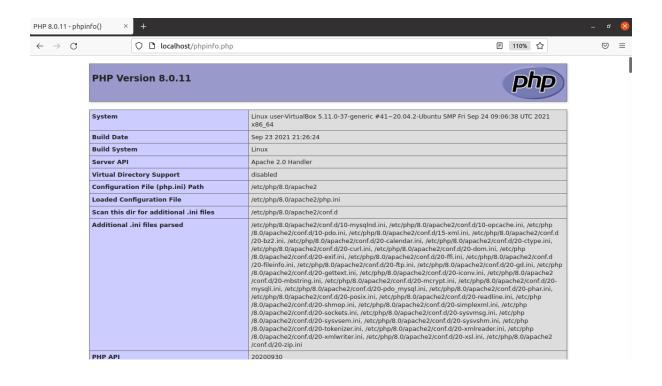
- 1. Install Maria dB using the command **sudo apt install mariadb- server mariadb-client**
- Check the status of the Maria dB using sudo systemctl status mysql

```
tom@tom-VirtualBox:~/Desktop$ sudo systemctl start mysql
tom@tom-VirtualBox:~/Desktop$ sudo systemctl status mysql
mariadb.service - MariaDB 10.5.12 database server
     Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor pres-
     Active: active (running) since Wed 2021-09-29 16:18:01 IST; 15min ago
       Docs: man:mariadbd(8)
             https://mariadb.com/kb/en/library/systemd/
    Process: 630 ExecStartPre=/usr/bin/install -m 755 -o mysql -g root -d /var>
    Process: 666 ExecStartPre=/bin/sh -c systemctl unset-environment _WSREP_ST
    Process: 673 ExecStartPre=/bin/sh -c [ ! -e /usr/bin/galera_recovery ] &&
    Process: 868 ExecStartPost=/bin/sh -c systemctl unset-environment _WSREP_S
    Process: 870 ExecStartPost=/etc/mysql/debian-start (code=exited, status=0/>
   Main PID: 735 (mariadbd)
Status: "Taking your SQL requests now..."
     Tasks: 8 (limit: 2296)
     Memory: 91.2M
     CGroup: /system.slice/mariadb.service

—735 /usr/sbin/mariadbd
Sep 29 16:18:01 tom-VirtualBox mariadbd[735]: 2021-09-29 16:18:01 0 [Note] /us>
Sep 29 16:18:01 tom-VirtualBox mariadbd[735]: Version: '10.5.12-MariaDB-0ubunt
Sep 29 16:18:01 tom-VirtualBox systemd[1]: Started MariaDB 10.5.12 database se
Sep 29 16:18:01 tom-VirtualBox /etc/mysql/debian-start[873]: Upgrading MySQL t
Sep 29 16:18:02 tom-VirtualBox /etc/mysql/debian-start[876]: Looking for 'mysq
Sep 29 16:18:02 tom-VirtualBox /etc/mysql/debian-start[876]: Looking for 'mysq
Sep 29 16:18:02 tom-VirtualBox /etc/mysql/debian-start[876]: This installation
Sep 29 16:18:02 tom-VirtualBox /etc/mysql/debian-start[951]: Checking for
```

Installing PHP and commonly used modules

- 1. Install php using sudo apt install php libapache2-mod-php php-opcache php-cli php-gd php-curl php-mysql
- 2. Restart apache2 using the command **sudo systemctl restart** apache2
- 3. Check the php installation by using localhost/phpinfo.php



```
tom@tom-VirtualBox:~/Desktop$ php -version
PHP 7.4.16 (cli) (built: Jul 5 2021 13:04:38) ( NTS )
Copyright (c) The PHP Group
Zend Engine v3.4.0, Copyright (c) Zend Technologies
   with Zend OPcache v7.4.16, Copyright (c), by Zend Technologies
tom@tom-VirtualBox:~/Desktop$ S
```

Installing phpmyadmin

- 1. Install phpmyadmin using sudo apt install phpmyadmin phpmbstring php-zip php-gd php-json php-curl
- 2. Restart apache2 sudo systemctl restart apache2
- Check phpmyadmin by opening a browser and typing http://localhost/phpmyadmin

