

ASSIGNMENT

**SUBJECT: NETWORKING AND SYSTEM ADMINISTRATION
LAB**

TOPIC: LAMP INSTALLATION PROCEDURE

SUBMITTED ON:

30-09-2021

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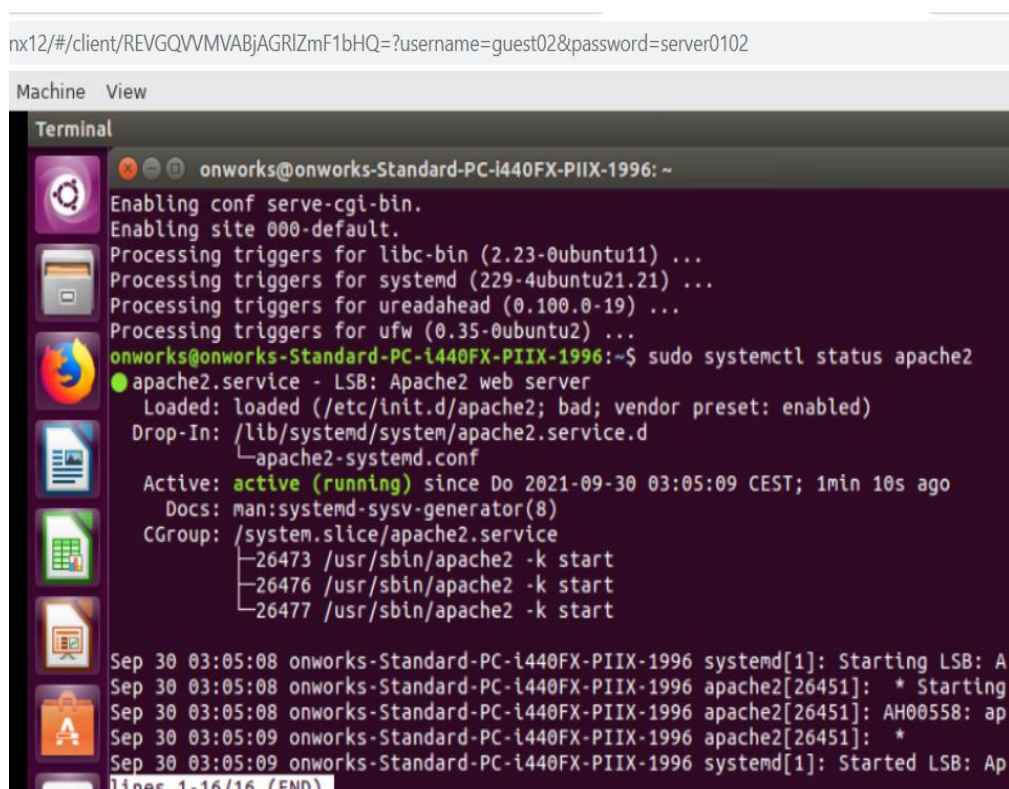
MEERA ROSE MATHEW

The name LAMP is an acronym of the following programs:

- Linux Operating System
- Apache HTTP Server
- MySQL database management system
- PHP programming language

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`
- **Once installed, test by accessing your server's IP in your browser:**
- `http://youripaddress`
 -
 - (*find out your ip address using `ifconfig`*)



```
nx12/#/client/REVGQVVMVABjAGRIZmF1bHQ=?username=guest02&password=server0102
Machine View
Terminal
onworks@onworks-Standard-PC-i440FX-PIIX-1996: ~
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Processing triggers for libc-bin (2.23-0ubuntu11) ...
Processing triggers for systemd (229-4ubuntu21.21) ...
Processing triggers for ureadahead (0.100.0-19) ...
Processing triggers for ufw (0.35-0ubuntu2) ...
onworks@onworks-Standard-PC-i440FX-PIIX-1996:~$ sudo systemctl status apache2
● apache2.service - LSB: Apache2 web server
   Loaded: loaded (/etc/init.d/apache2; bad; vendor preset: enabled)
   Drop-In: /lib/systemd/system/apache2.service.d
            └─apache2-systemd.conf
   Active: active (running) since Do 2021-09-30 03:05:09 CEST; 1min 10s ago
     Docs: man:systemd-sysv-generator(8)
    CGroup: /system.slice/apache2.service
            └─26473 /usr/sbin/apache2 -k start
               26476 /usr/sbin/apache2 -k start
               26477 /usr/sbin/apache2 -k start

Sep 30 03:05:08 onworks-Standard-PC-i440FX-PIIX-1996 systemd[1]: Starting LSB: A
Sep 30 03:05:08 onworks-Standard-PC-i440FX-PIIX-1996 apache2[26451]: * Starting
Sep 30 03:05:08 onworks-Standard-PC-i440FX-PIIX-1996 apache2[26451]: AH00558: ap
Sep 30 03:05:09 onworks-Standard-PC-i440FX-PIIX-1996 apache2[26451]: *
Sep 30 03:05:09 onworks-Standard-PC-i440FX-PIIX-1996 systemd[1]: Started LSB: Ap
lines 1-16/16 (END)
```

Install MariaDB

- MariaDB is a fork of MySQL from some of the original MySQL team and is a drop-in replacement.

sudo apt install mariadb-server mariadb-client

- Check mariadb Installation

sudo systemctl status mysql

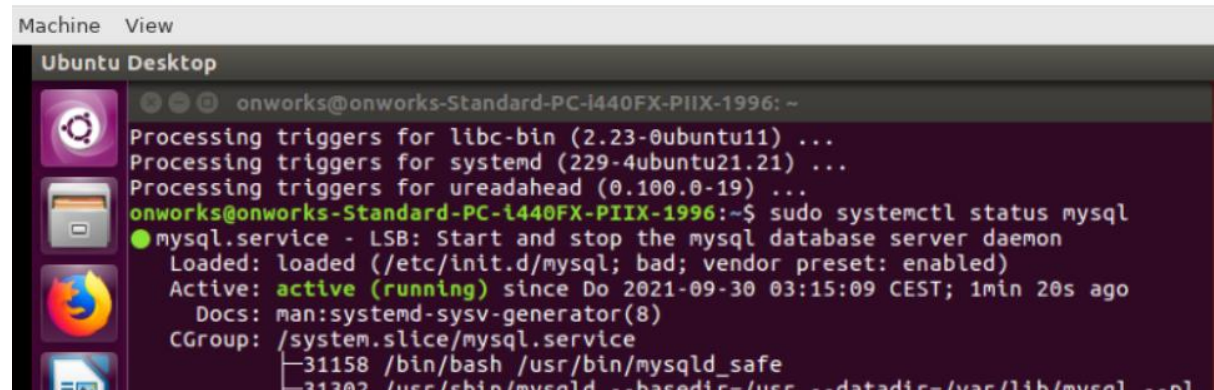
(if it is not working sudo systemctl start mysql)

- Secure your newly installed MariaDB service:

sudo mysql_secure_installation

- (This will set password for mariadb, and strengthen the security by asking
- some questions like disallow root login remotely? Remove test database? Etc)

nx12/#/client/REVGQVVMVABjAGRIZmF1bHQ=?username=guest02&password=server0102



The screenshot shows a terminal window titled "Ubuntu Desktop" with the prompt "onworks@onworks-Standard-PC-l440FX-PIIX-1996: ~". The user has run the command "sudo systemctl status mysql". The output shows that the "mysql.service" is active and running. It was loaded from "/etc/init.d/mysql" and is enabled. It became active on "2021-09-30 03:15:09 CEST" and has been running for "1min 20s". The service is managed by "systemd-sysv-generator(8)" and belongs to the "CGroup: /system.slice/mysql.service". The main process is "31158 /bin/bash /usr/bin/mysqld_safe" and there is a child process "31302 /usr/sbin/mysqld --basedir=/usr --datadir=/var/lib/mysql --pl".

Install PHP and commonly used modules

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

If “phpmyadmin is not found error”

- **`sudo -H gedit /etc/apache2/apache2.conf`**

Then add the following line to the end of the file:

- **`Include /etc/phpmyadmin/apache.conf`**

Then restart apache:

- **`sudo systemctl restart apache2`**

Then install phpmyadmin again

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

If “phpmyadmin is not found error”

- **`sudo -H gedit /etc/apache2/apache2.conf`**

Then add the following line to the end of the file:

- **`Include /etc/phpmyadmin/apache.conf`**

Then restart apache:


- **`sudo systemctl restart apache2`**

Then install phpmyadmin again

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

phpMyAdmin

localhost/phpmyadmin/



Welcome to phpMyAdmin

Language

English

Log in

Username:

admin

Password:

.....

Go

localhost/phpmyadmin/index.php

Server: localhost:3306

DatabasesSQLStatusExportImportSettings

General settings

Change password

Server connection collation: utf8mb4_unicode_ci

Appearance settings

Language: English

Theme: pmahomme

Font size: 82%

More settings

Database server

Console