* **Lamp** **installation**

<https://www.codewithharry.com/blogpost/lamp-stack-ubuntu-20-04/>

* apt install mysql-server
* sudo apt-get install software-properties-common -y - > The "software-properties-common" package provides a set of common utilities used for managing software repositories in Debian-based Linux distributions. These utilities include the "add-apt-repository" command, which is used to add new software repositories to the system, as well as other tools for managing PPA (Personal Package Archive) repositories.
* sudo add-apt-repository ppa:ondrej/php - **provides different PHP versions for Ubuntu**
* apt install ufw
* sudo ufw enable
* sudo ufw allow “ “
* ufw status
* **phpMyAdmin installation**

<https://www.codewithharry.com/blogpost/install-phpmyadmin-ubuntu/>

* **Mysql commands:**

CREATE USER 'harry'@'localhost' IDENTIFIED WITH caching\_sha2\_password BY 'MyStrongPassword1234$';

ALTER USER 'root'@'localhost' IDENTIFIED WITH caching\_sha2\_password BY 'MyStrongPassword1234$';

* **Create virtual host in apache.**

<https://linuxhint.com/setup-apache-virtual-hosts-on-ubuntu-22-04/>

* **Hide the apache2 version from showing in the web browser**
* **In apache conf file add below two lines.**

ServerSignature Off

ServerTokens Prod

* **MySQL Password reset for any user using script.**

#!/bin/bash

mysql -u root -ppassword123 -e "ALTER USER 'vatsal'@'localhost' identified by '789';"

-e: This option is used to specify a SQL statement to be executed.

* **Clear log file using script**

[**https://arstech.net/script-to-delete-log-files-in-linux/**](https://arstech.net/script-to-delete-log-files-in-linux/)

* **Mysql installation script**

#!/bin/bash

sudo apt update

sudo apt install mysql-server -y

sudo systemctl start mysql.service

sudo mysql -u root -pRoot@123456 -e "ALTER USER 'root'@'localhost' IDENTIFIED BY 'Root@123';"

* **LAMP installation script:**

#!/bin/bash

sudo apt update

sudo apt install apache2 -y

echo 'Apache Web Server is installed'

sudo apt install ufw

sudo ufw enable

sudo ufw allow in "Apache Full"

sudo ufw status

sudo apt install mysql-server -y

echo 'mysql installed'

sudo apt-get install software-properties-common -y

sudo add-apt-repository ppa:ondrej/php

sudo apt-get install php7.4 php7.4-fpm php7.4-cli -y

echo 'php and its modules installed'

echo 'Starting the services'

systemctl restart apache2

systemctl restart mysql

echo 'Enabling the services'

systemctl enable apache2

systemctl enable mysql

echo 'Finally Checking status of services'

echo Apache service is $(systemctl show -p ActiveState --value apache2)

echo mysql service is $(systemctl show -p ActiveState --value mysql)

echo LAMP setup installed on ubuntu Successfully

* **Run script at boot time**

[**https://www.linuxbabe.com/linux-server/how-to-enable-etcrc-local-with-systemd**](https://www.linuxbabe.com/linux-server/how-to-enable-etcrc-local-with-systemd)

**sudo nano /etc/systemd/system/rc-local.service**

**[Unit]**

**Description=/etc/rc.local Compatibility**

**ConditionPathExists=/etc/rc.local**

**[Service]**

**Type=forking**

**ExecStart=/etc/rc.local start**

**TimeoutSec=0**

**StandardOutput=tty**

**RemainAfterExit=yes**

**SysVStartPriority=99**

**[Install]**

**WantedBy=multi-user.target**

sudo nano /etc/rc.local

#!/bin/bash

sudo bash /home/nishit/lemp.sh

exit 0

* Shut down the system: **init 0**
* Reboot the system: **init 6**
* Check system log using: sudo less var/log/syslog 🡪 end -> ?rc.local