EXPERIMENT NO: 5

AIM:- WORDPRESS INSTALLATION ON LAMP STACK

WORDPRESS

WordPress is the simplest, most popular way to create our own website or blog.It is an open-source content management system licensed under GPLv2, which means that anyone can use or modify the WordPress software for free.

A content management system(CMS) is basically a tool that makes it easy to manage important aspects of the website like content without needing to know anything about programming.

BENEFITS OF WordPress

- ➢ WordPress is free
- ➢ Simple and easy to use
- ➢ Stable and innovative
- ➢ Attractive design options
- ➢ Flexibility
- ➢ Sharing ability
- ➢ Easy content management
- ➢ Open source

LAMP

LAMP is a software stack designed to host web content, like websites and web apps.It's called LAMP because it's built on Linux (L), Apache web server (A) , a MySQL database (M) or MariaDB, and the PHP scripting language (P).

LAMP is referred to as a software stack,because each of them built on top of the other.Linux is the operating system, which creates the base layer. Apache is on the top of the linux because it needs Linux to operate. MySQL is along with Apache to store all the information it needs. And PHP sits atop the stack to drive the actual display of the website, pull info from the database and create user experience.

INSTALLATION PROCESS

STEPS:-

Install LAMP stack , for that open the terminal and type the following commands.At first check whether there is any updates available with

sudo apt-get update

```
gopika@gopika-VirtualBox:~/Desktop$ sudo apt-get update
[sudo] password for gopika:
Get:1 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Hit:2 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Fetched 114 kB in 16s (6,948 B/s)
Reading package lists... Done
gopika@gopika-VirtualBox:~/Desktop$
```

If any updates available upgrade it using

<mark>sudo apt-get upgrade</mark>

Now type the command in terminal to install LAMP that is

<mark>sudo apt-get install lamp-server^</mark>


```
gopika@gopika-VirtualBox:~/Desktop$ sudo apt-get install lamp-server^
[sudo] password for gopika:
E: dpkg was interrupted, you must manually run 'sudo dpkg --configure -a' to correct the problem.
gopika@gopika-VirtualBox:~/Desktop$ sudo dpkg --configure -a
Setting up libapache2-mod-php7.4 (7.4.3-4ubuntu2.5) ...
Package apache2 is not configured yet. Will defer actions by package libapache2-mod-php7.4.

Creating config file /etc/php/7.4/apache2/php.ini with new version
No module matches
Setting up apache2 (2.4.41-4ubuntu3.4) ...
Enabling module mpm_event.
Enabling module authz_core.
Enabling module authz_host.
Enabling module authn_core.
Enabling module auth_basic.
Enabling module access_compat.
Enabling module authn_file.
Enabling module authz_user.
Enabling module alias.
Enabling module dir.
Enabling module autoindex.
Enabling module env.
Enabling module mime.
Enabling module negotiation.
Enabling module setenvif.
Enabling module filter.
Enabling module deflate.
Enabling module status.
Enabling module reqtimeout.
Enabling conf charset.
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
```

LAMP is successfully installed. Now we want to get into the root directory of Apache ,for that

cd var/www/html/
 and then we need to download the WordPress ,

sudo wget https://wordpress.org/latest.tar.gz

Then we get the zip folder of latest version of WordPress and we need to unzip it using

sudo tar xvfz latest.tar.gz

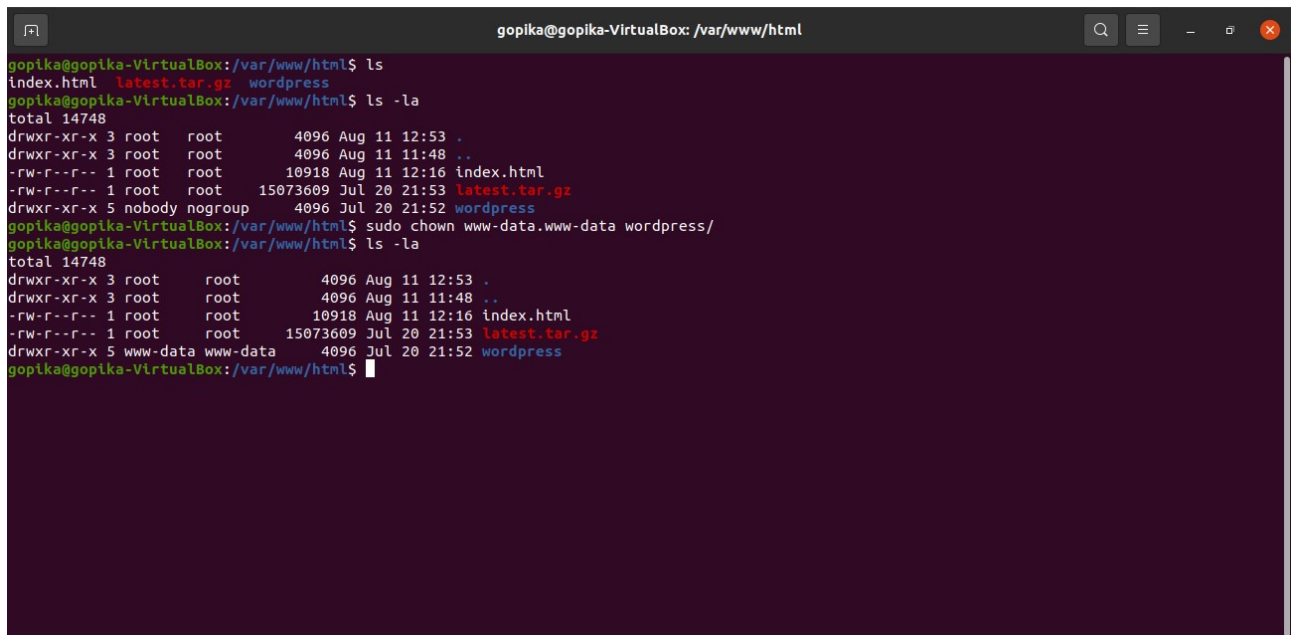After the folder is get unzipped, list the files in it using the command
 ls
then check the permission of the wordpress file using
ls -la
 At first the wordpress file seems to be no one can write or change data, so we need
to change the file permission using chown (change ownership) command

sudo chown www-data.www-data wordpress/

Now we need to create a database for wordpress, for that we need to get into mysql
sudo mysql

along with that we need to create an username and password for MySQL using
 CREATE USER 'username'@'localhost' IDENTIFIED BY 'password';

give username and password as our interest and grant permission to the user to access
the databases by
GRANT ALL PRIVILEGES ON*.*TO 'GOPIKA'@'localhost';

Check the existing databases using the command
 show databases;
and then create database named wordpress

create database wordpress;

and then launch localhost/wordpress and then connect the databse to the wordpress

click on submit and create user login credentials and click on install wordpress.

login to the wordpress using the login credentials.
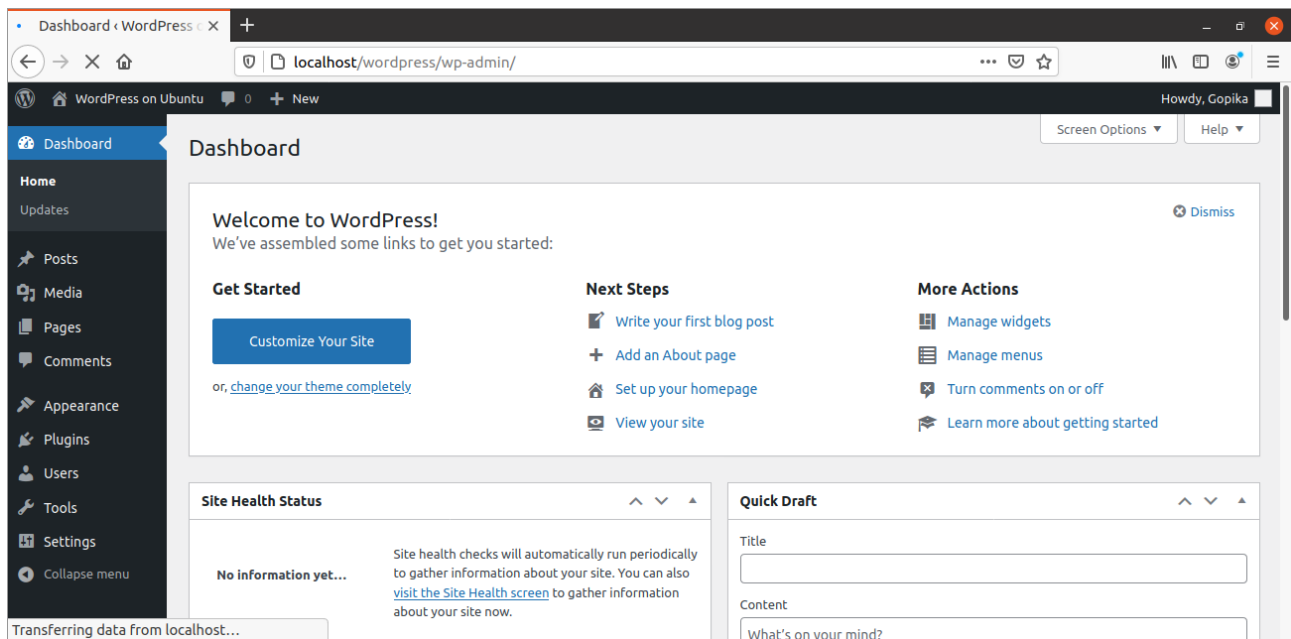
WordPress is successfully installed locally.