

### **EXPIRIMENT-3:**

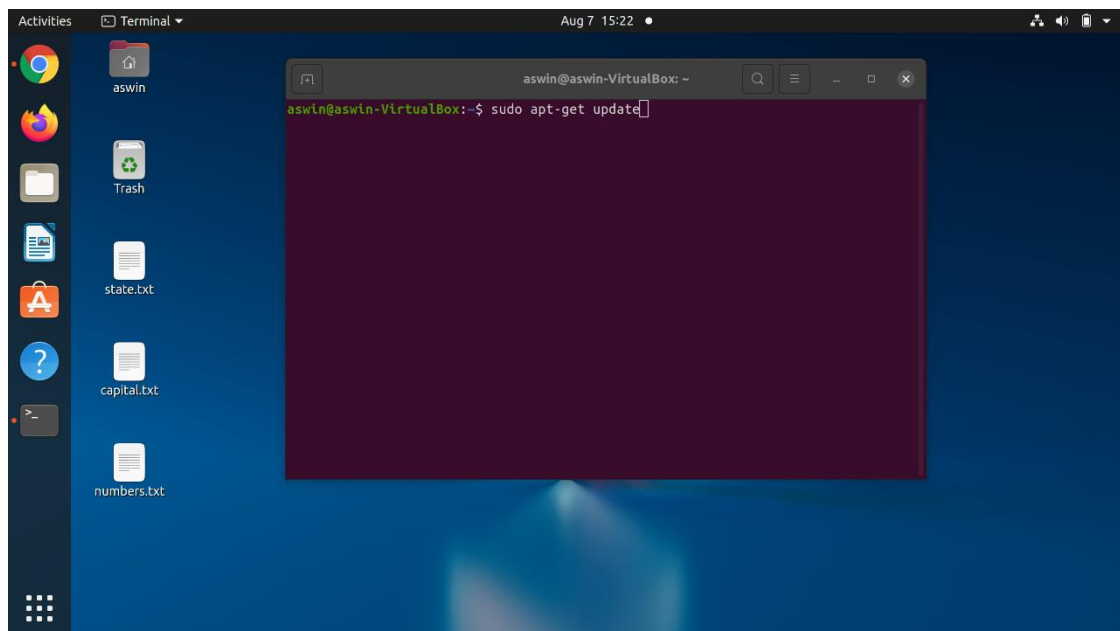
**Aim:** Installation and configuration of LAMP stack. Deploy an open source application such asphpmyadmin and Wordpress.

### **ANSWER :-**

WordPress is an extremely popular open-source technology for making websites and blogs on the internet today. we can use a LAMP (**L**inux, **A**pache, **M**ySQL, and **P**HP) stack, which is one option for a server architecture that supports WordPress by providing the Linux operating system, Apache web server, MySQL database, and PHP programming language. We'll install and set up WordPress via LAMP on a Linux Ubuntu server.

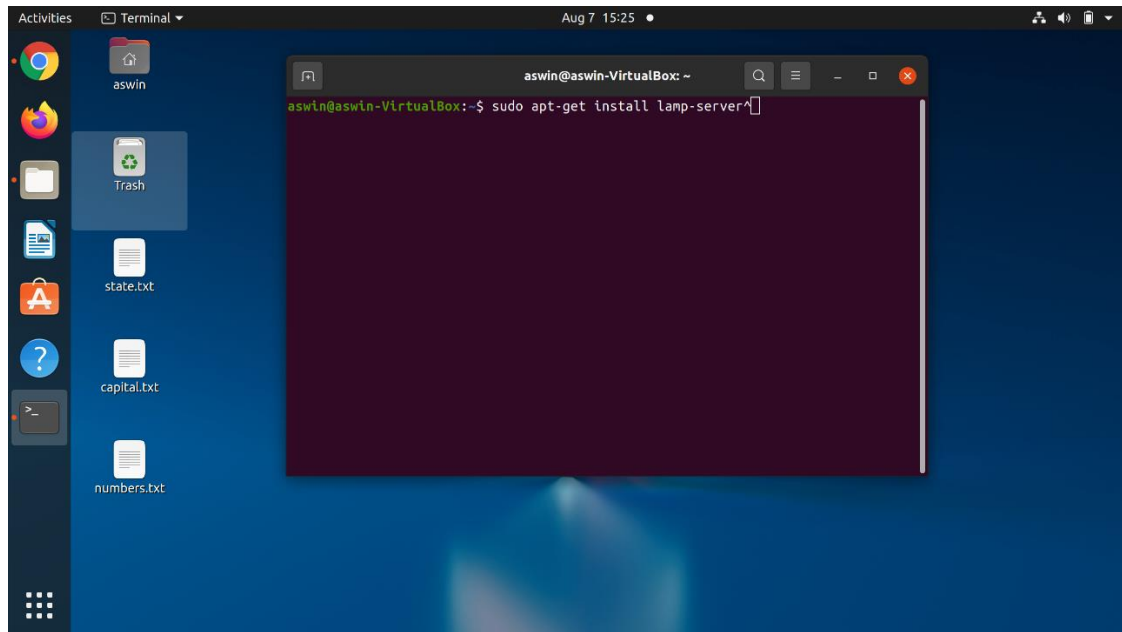
#### STEP1 :

When setting up our LAMP stack, we only required a very minimal set of extensions in order to get PHP to communicate with MySQL. WordPress and many of its plugins leverage additional PHP extensions. We can download and install some of the most popular PHP extensions for use with WordPress by typing:



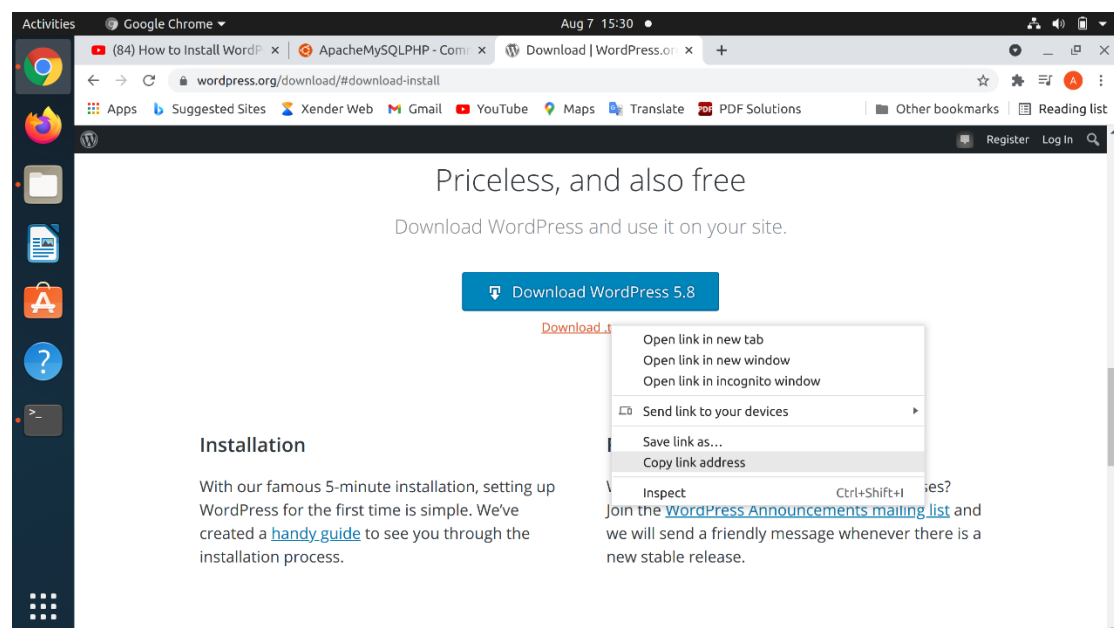
## STEP 2:

Install the LAMP stack which is one option for a server architecture that supports WordPress by providing the Linux operating system, Apache web server, MySQL database, and PHP programming language.



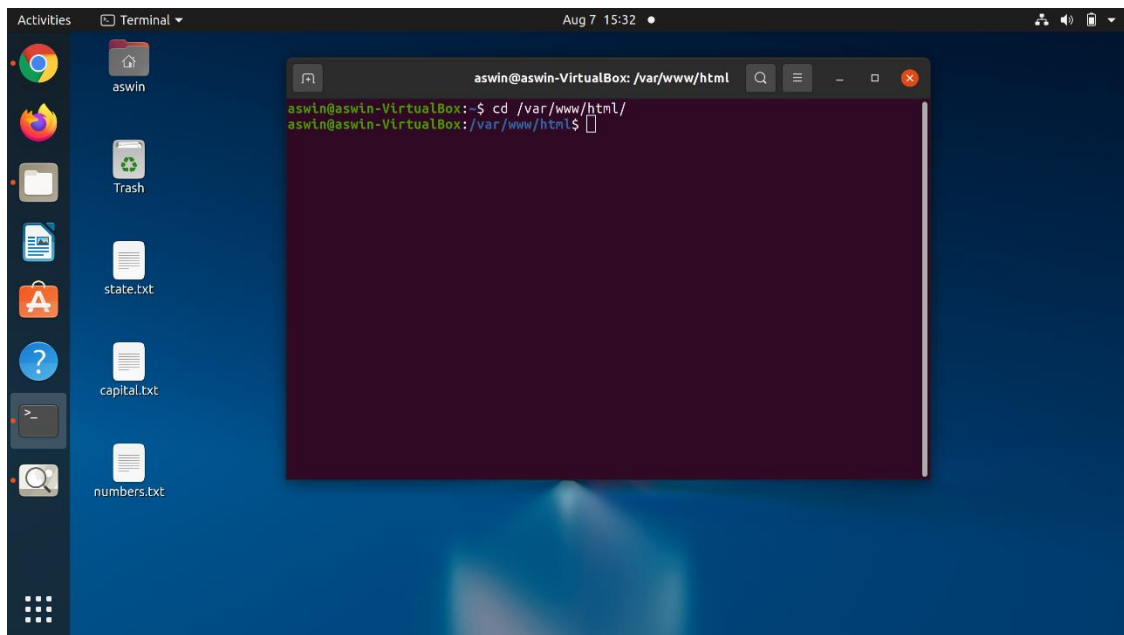
## STEP 3:

WordPress link address is copied from browser



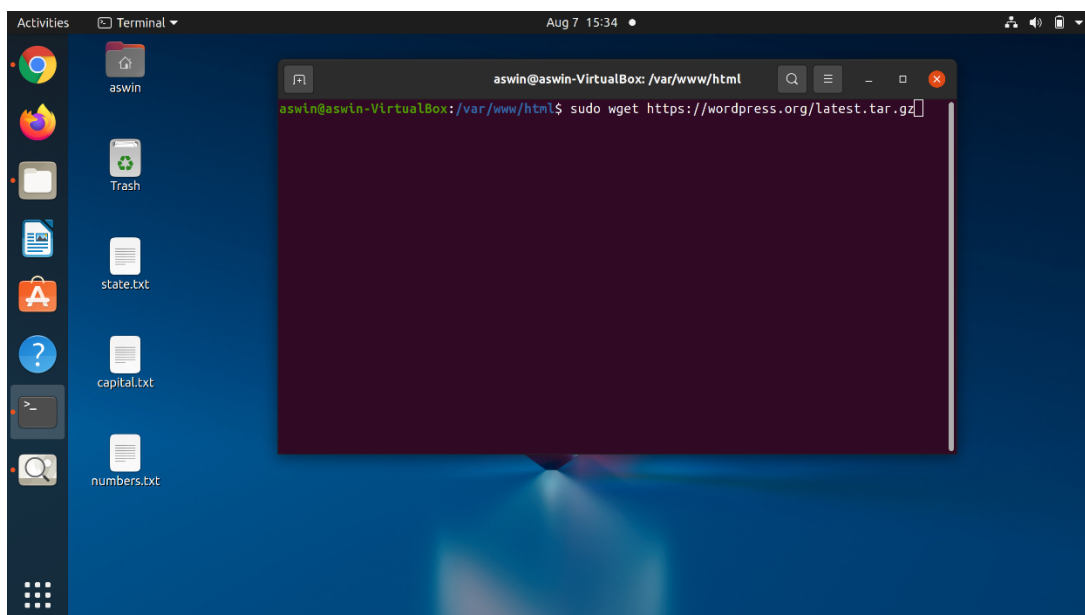
#### STEP 4:

Change the directory to root directory of Apache.



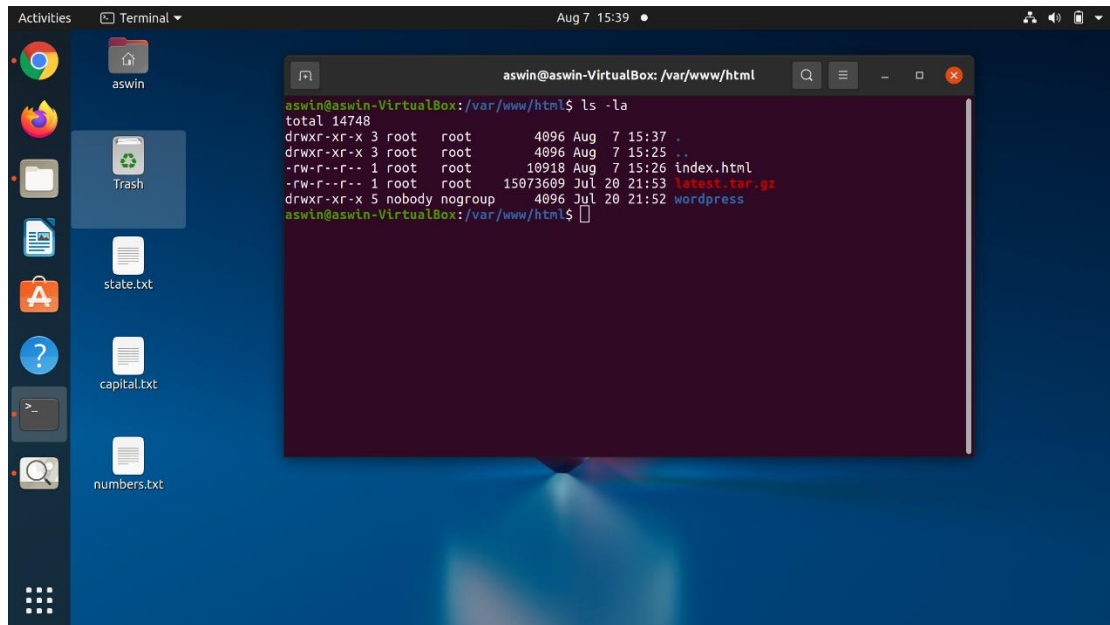
#### STEP 5:

Now that our server software is configured, we can download and set up WordPress. For security reasons in particular, it is always recommended to get the latest version of WordPress from their site. Download the compressed release.



## STEP 6

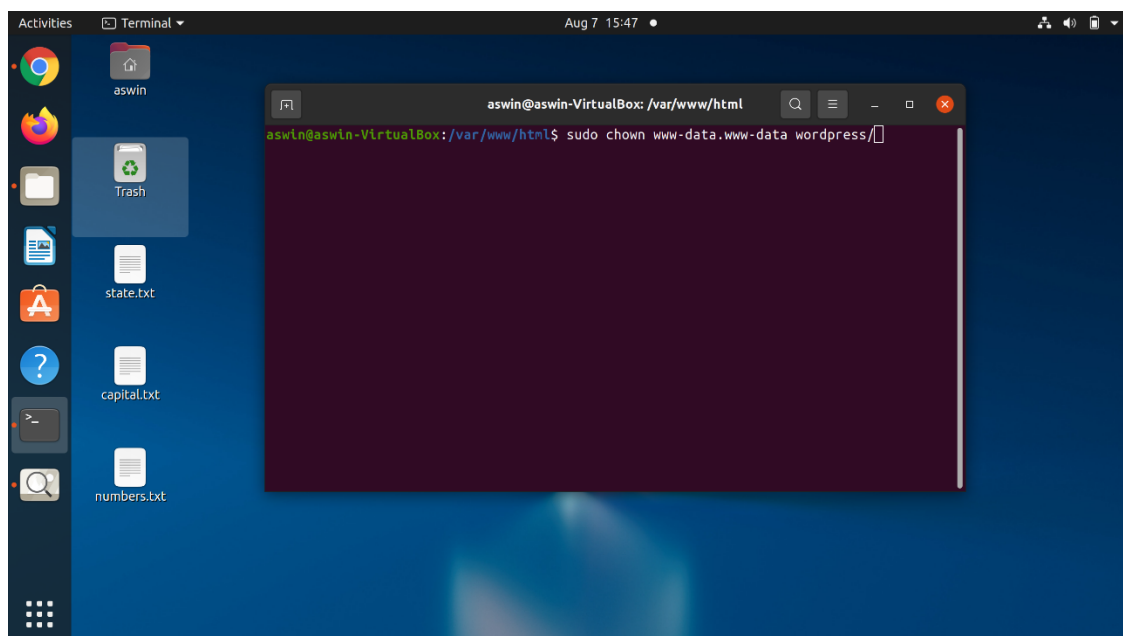
Make a check into the current directory

A screenshot of a Linux desktop environment with a terminal window open. The terminal shows the output of the 'ls -la' command in the directory '/var/www/html'. The output lists the current directory, parent directory, 'index.html', 'latest.tar.gz', and 'wordpress'.

```
aswin@aswin-VirtualBox: /var/www/html$ ls -la
total 14748
drwxr-xr-x 3 root root 4096 Aug 7 15:37 .
drwxr-xr-x 3 root root 4096 Aug 7 15:25 ..
-rw-r--r-- 1 root root 10918 Aug 7 15:26 index.html
-rw-r--r-- 1 root root 15073609 Jul 20 21:53 latest.tar.gz
drwxr-xr-x 5 nobody nogroup 4096 Jul 20 21:52 wordpress
aswin@aswin-VirtualBox: /var/www/html$
```

## STEP 7

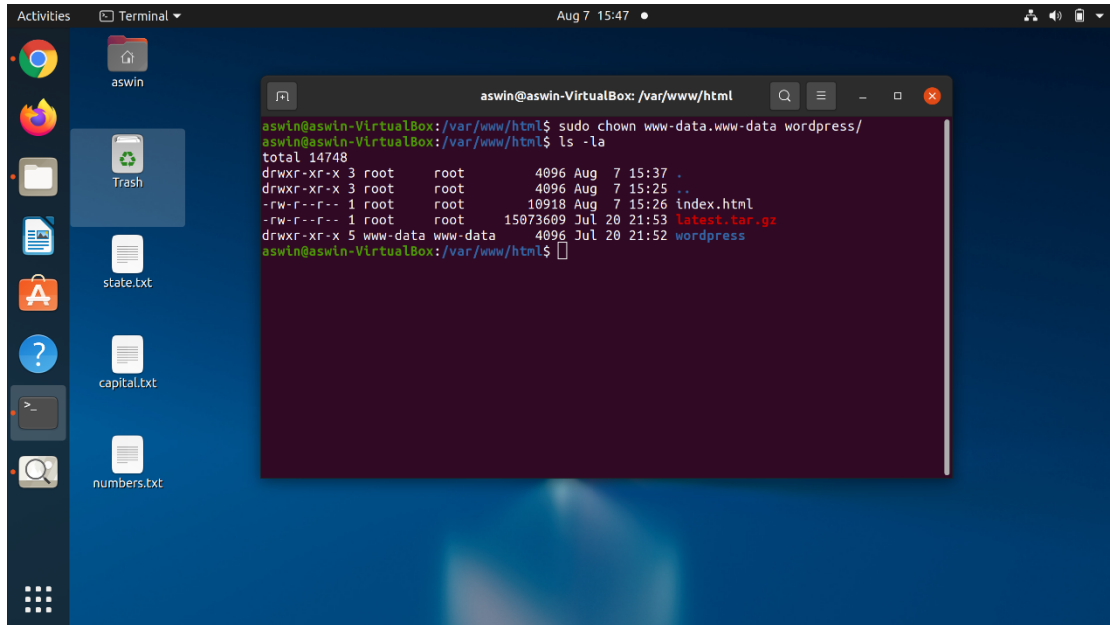
Change owner of the WordPress file.

A screenshot of the same Linux desktop environment. The terminal window now shows the command 'sudo chown www-data:www-data wordpress/' being entered.

```
aswin@aswin-VirtualBox: /var/www/html$ sudo chown www-data:www-data wordpress/
```

## STEP 8

Check the rights of the WordPress file changed.



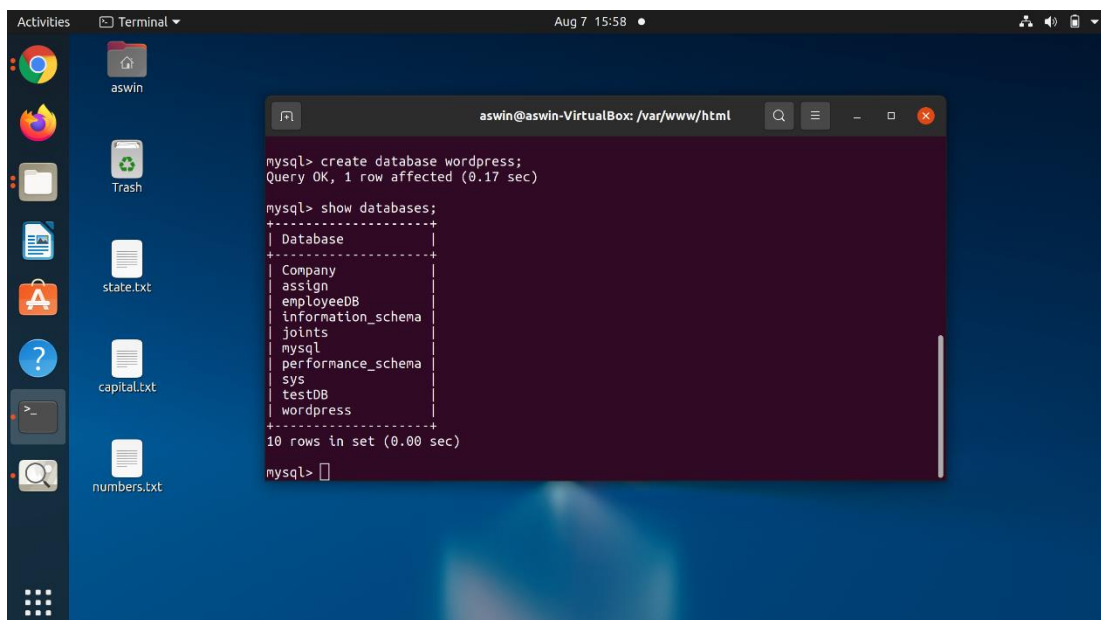
The screenshot shows a Linux desktop with a terminal window open. The terminal displays the output of the `ls -la` command in the `/var/www/html` directory. The output shows the permissions for the `wordpress` directory, which are `drwxr-xr-x` owned by `www-data` and `www-data`.

```
aswin@aswin-VirtualBox: /var/www/html
aswin@aswin-VirtualBox: /var/www/html$ sudo chown www-data:www-data wordpress/
aswin@aswin-VirtualBox: /var/www/html$ ls -la
total 14748
drwxr-xr-x 3 root    root      4096 Aug  7 15:37 .
drwxr-xr-x 3 root    root      4096 Aug  7 15:25 ..
-rw-r--r-- 1 root    root     10918 Aug  7 15:26 index.html
-rw-r--r-- 1 root    root    15073609 Jul 20 21:53 latest.tar.gz
drwxr-xr-x 5 www-data www-data 4096 Jul 20 21:52 wordpress
aswin@aswin-VirtualBox: /var/www/html$
```

## STEP 9

Creating a WordPress Database for Website. Open the terminal and type command `sudo mysql -u root -p`

After login, run the following commands to create your site's database  
**CREATE DATABASE WORDPRESS**



The screenshot shows a Linux desktop with a terminal window open. The terminal displays the output of the `mysql` command, showing the creation of the `wordpress` database and the list of databases.

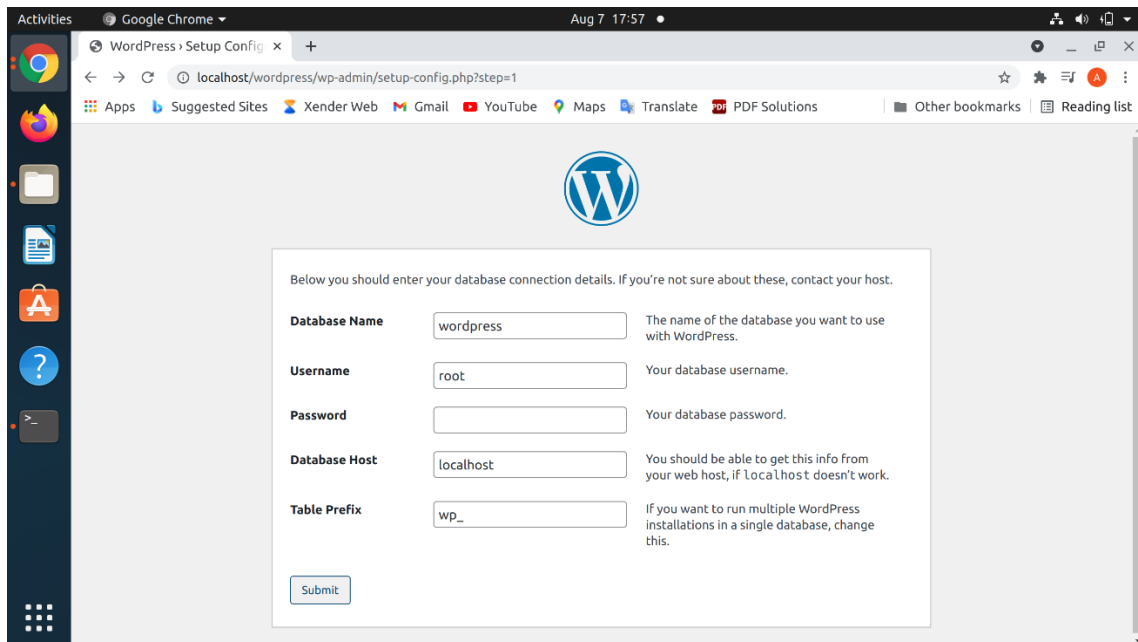
```
aswin@aswin-VirtualBox: /var/www/html
mysql> create database wordpress;
Query OK, 1 row affected (0.17 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| Company |
| assign   |
| employeeDB |
| information_schema |
| joints   |
| mysql    |
| performance_schema |
| sys      |
| testDB   |
| wordpress |
+-----+
10 rows in set (0.00 sec)

mysql>
```

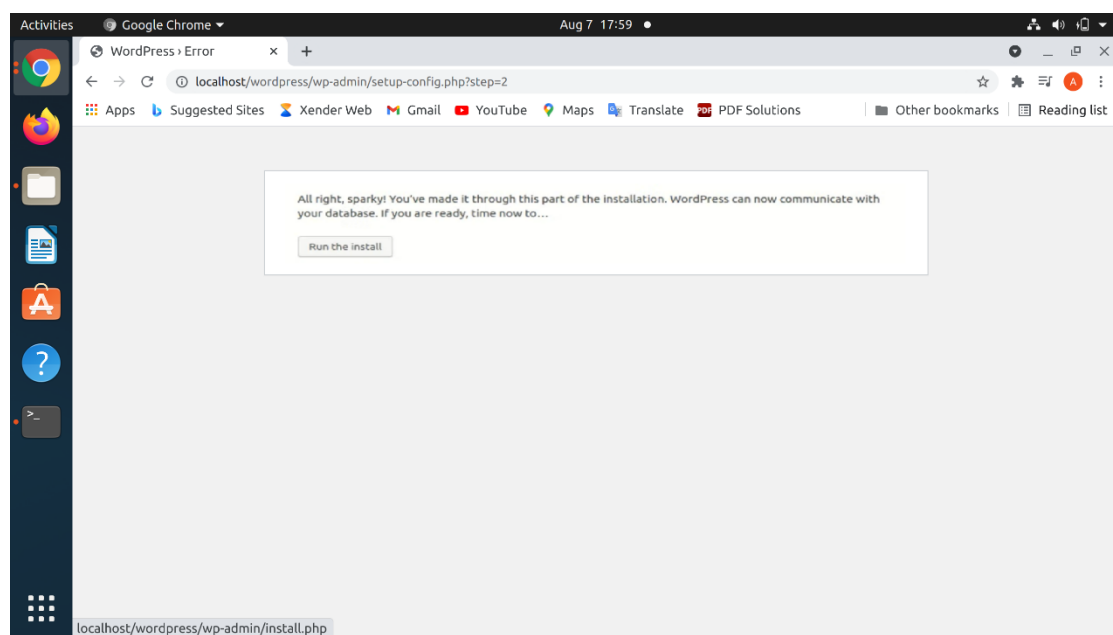
## STEP 10

Open word press configuration in browser, then enter the database connection details and click submit.



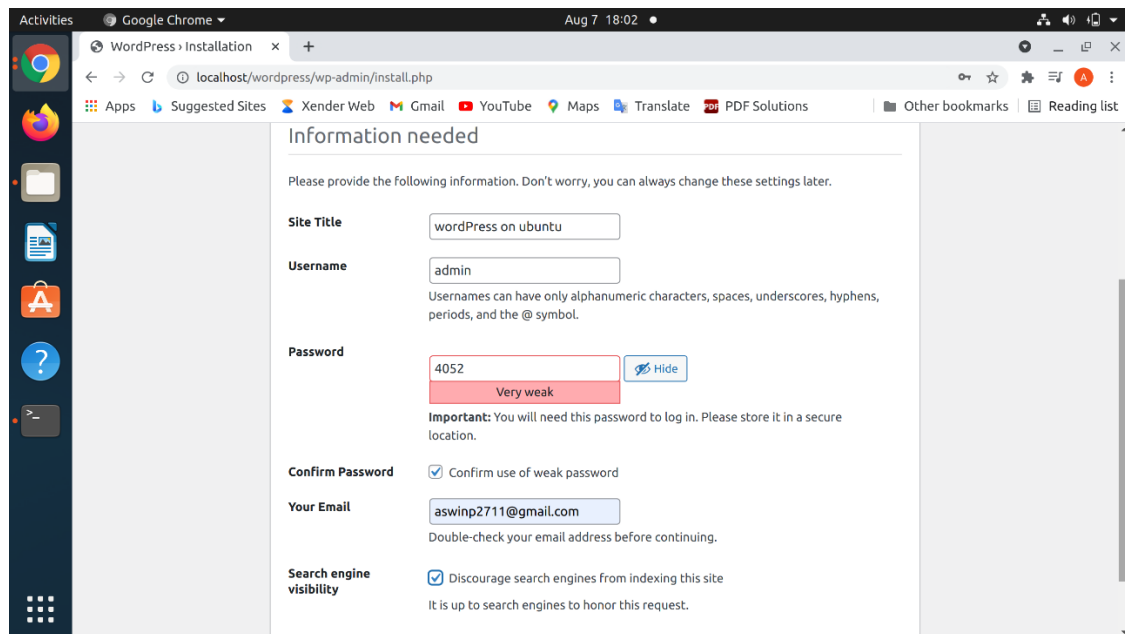
## STEP 11:

Click Run the install.



## STEP 12

Next, you will come to the main setup page. Select a name for your WordPress site and choose a username (it is recommended not to choose something like “admin” for security purposes). A strong password is generated automatically. Save this password or select an alternative strong password. Enter your email address and select whether you want to discourage search engines from indexing your site:

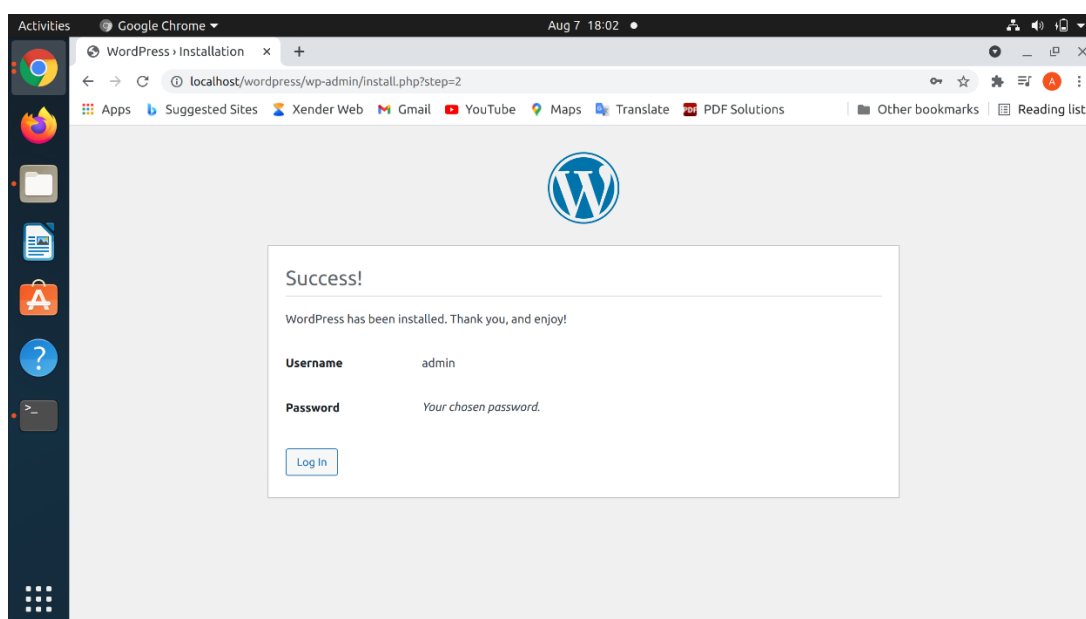


The screenshot shows the 'Information needed' step of the WordPress installation process in a Google Chrome browser. The URL bar shows 'localhost/wordpress/wp-admin/install.php'. The page title is 'Information needed'. Below the title, it says 'Please provide the following information. Don't worry, you can always change these settings later.' The form contains the following fields and options:

- Site Title:** A text input field containing 'wordpress on ubuntu'.
- Username:** A text input field containing 'admin'. Below it, a note states: 'Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.'
- Password:** A text input field containing '4052'. To its right is a 'Hide' button. Below the field, a red box says 'Very weak'. An important note follows: 'Important: You will need this password to log in. Please store it in a secure location.'
- Confirm Password:** A checkbox labeled 'Confirm use of weak password' which is checked.
- Your Email:** A text input field containing 'aswinp2711@gmail.com'. Below it, a note says: 'Double-check your email address before continuing.'
- Search engine visibility:** A checkbox labeled 'Discourage search engines from indexing this site' which is checked. Below it, a note says: 'It is up to search engines to honor this request.'

## STEP 13

Finally successfully installed! Click login.

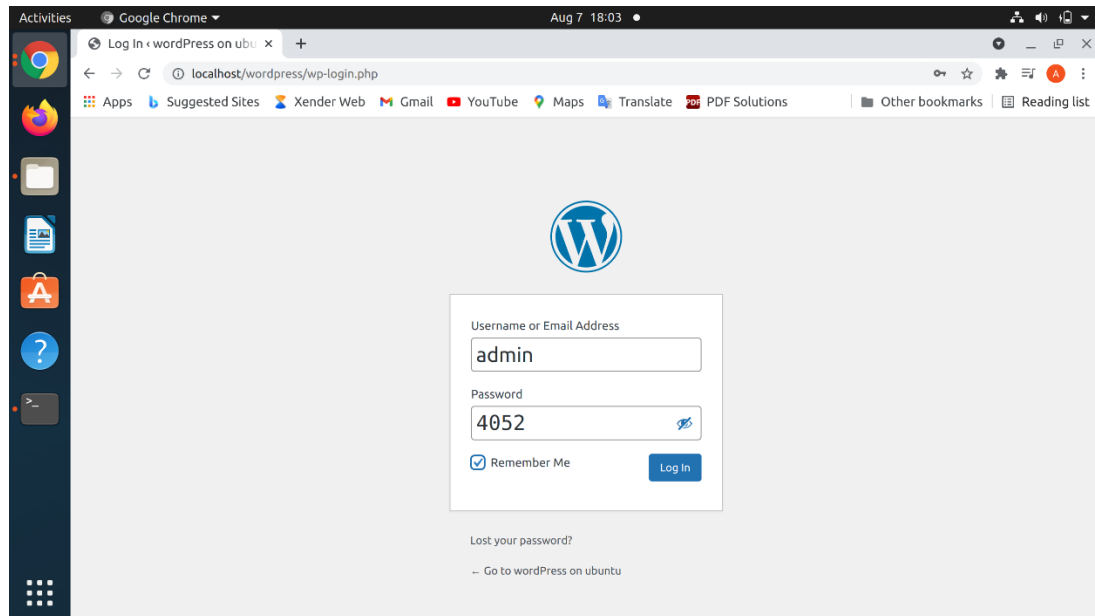


The screenshot shows the 'Success!' screen of the WordPress installation process in a Google Chrome browser. The URL bar shows 'localhost/wordpress/wp-admin/install.php?step=2'. The page features the WordPress logo at the top center. Below the logo, a box contains the following information:

- Success!** (Section header)
- WordPress has been installed. Thank you, and enjoy!
- Username:** admin
- Password:** Your chosen password.
- A 'Log In' button.

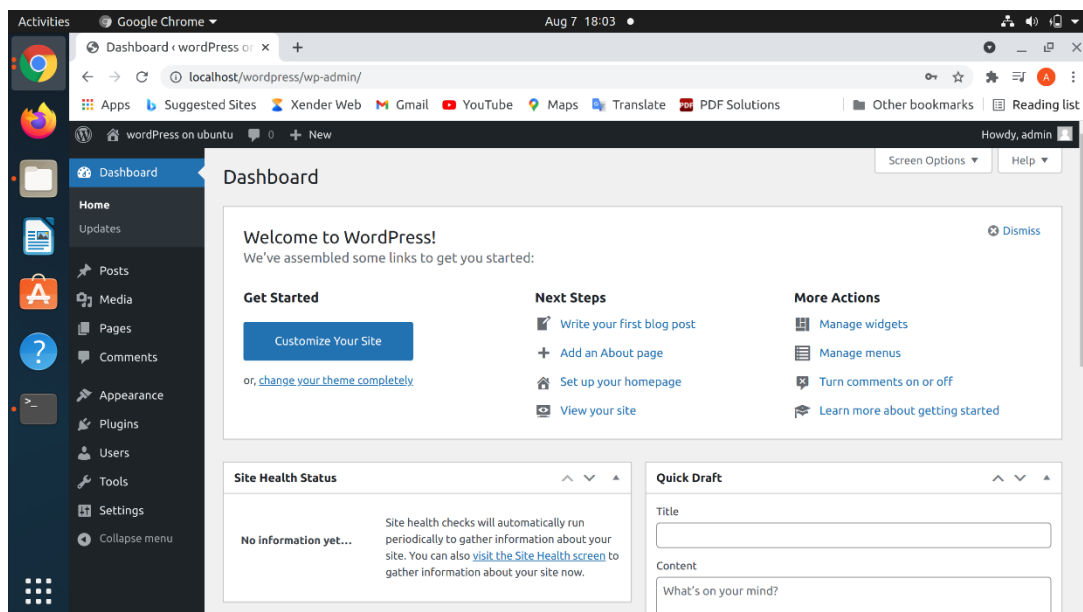
## STEP 14

Enter username and password for the wordpress



## STEP 15

Once you log in, you will be taken to the WordPress administration dashboard: We entered into the WordPress dashboard.



We completed our installation successfully and we are now in wordpress.....!!!