LAMP Stack Installation

First Update

sathish@Ubuntu:~$ sudo apt-get update

Hit:1 http://in.archive.ubuntu.com/ubuntu jammy InRelease

Hit:2 http://security.ubuntu.com/ubuntu jammy-security InRelease

Hit:3 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease

Hit:4 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease

Reading package lists... Done

Installing Apache2

sathish@Ubuntu:~$ sudo apt install apache2

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

apache2 is already the newest version (2.4.52-1ubuntu4.2).

The following packages were automatically installed and are no longer required:

  libflashrom1 libftdi1-2

Use 'sudo apt autoremove' to remove them.

0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.

Enable Apache2

sathish@Ubuntu:~$ sudo systemctl enable apache2

Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.

Executing: /lib/systemd/systemd-sysv-install enable apache2

Checking Status of Apache2

sathish@Ubuntu:~$ sudo systemctl status apache2

● apache2.service - The Apache HTTP Server

     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor prese>

     Active: active (running) since Mon 2023-01-16 13:10:45 IST; 17min ago

       Docs: https://httpd.apache.org/docs/2.4/

   Main PID: 870 (apache2)

      Tasks: 7 (limit: 2287)

     Memory: 7.8M

        CPU: 251ms

     CGroup: /system.slice/apache2.service

             ├─ 870 /usr/sbin/apache2 -k start

             ├─ 893 /usr/sbin/apache2 -k start

             ├─ 894 /usr/sbin/apache2 -k start

             ├─ 895 /usr/sbin/apache2 -k start
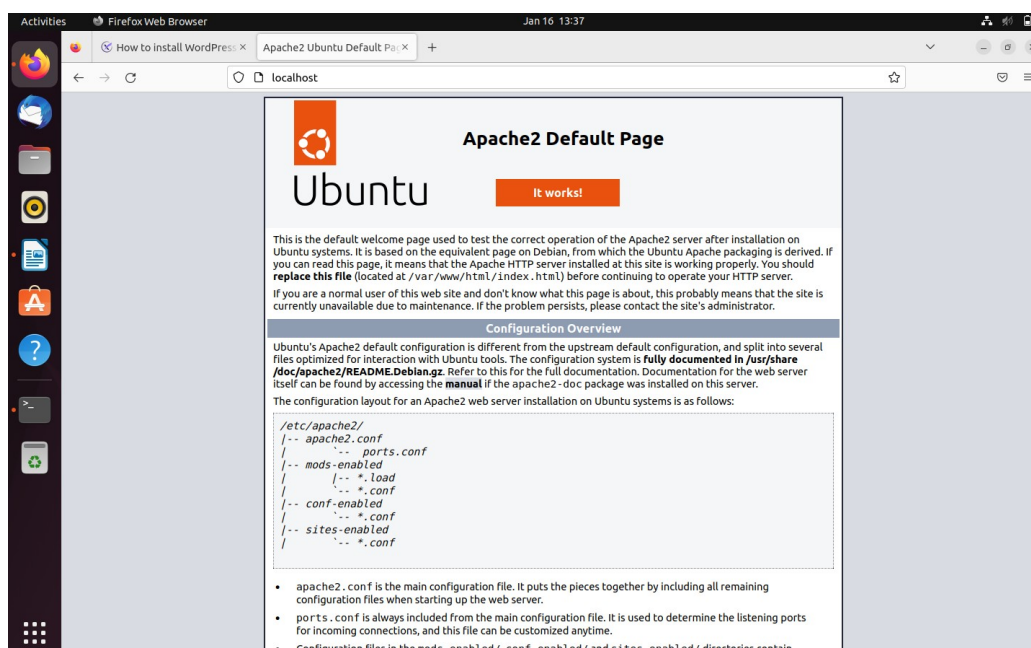
             ├─ 896 /usr/sbin/apache2 -k start

             ├─ 897 /usr/sbin/apache2 -k start

             └─4376 /usr/sbin/apache2 -k start

Jan 16 13:10:44 Ubuntu systemd[1]: Starting The Apache HTTP Server...

Jan 16 13:10:45 Ubuntu systemd[1]: Started The Apache HTTP Server.

Set Mysql Native Password for Root

```
sathish@Ubuntu:/$ sudo mysql

Welcome to the MySQL monitor.  Commands end with ; or \g.

Your MySQL connection id is 11

Server version: 8.0.31-0ubuntu0.22.04.1 (Ubuntu)


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owners.


Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password by
'Qwer@1234';

Query OK, 0 rows affected (0.08 sec)


mysql> exit

Bye
```

Securing Mysql

```
sathish@Ubuntu:/$ sudo mysql_secure_installation


Securing the MySQL server deployment.


Enter password for user root:

The 'validate_password' component is installed on the server.

The subsequent steps will run with the existing configuration

of the component.
```

Using existing password for root.

Estimated strength of the password: 100
Change the password for root ? ((Press y|Y for Yes, any other key for No) : n

 ... skipping.
By default, a MySQL installation has an anonymous user,

allowing anyone to log into MySQL without having to have

a user account created for them. This is intended only for

testing, and to make the installation go a bit smoother.

You should remove them before moving into a production

environment.

Remove anonymous users? (Press y|Y for Yes, any other key for No) : y

Success.

Normally, root should only be allowed to connect from

'localhost'. This ensures that someone cannot guess at

the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : y

Success.

By default, MySQL comes with a database named 'test' that

anyone can access. This is also intended only for testing,

and should be removed before moving into a production

environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : y

 - Dropping test database...

Success.

 - Removing privileges on test database...

Success.

Reloading the privilege tables will ensure that all changes

made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y

Success.

All done!

Enable mysql

sathish@Ubuntu:/$ sudo systemctl enable mysql

Synchronizing state of mysql.service with SysV service script with /lib/systemd/systemd-sysv-install.

Executing: /lib/systemd/systemd-sysv-install enable mysql

Check status mysql

sathish@Ubuntu:/$ sudo systemctl status mysql

● mysql.service - MySQL Community Server

    Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset:>

    Active: active (running) since Mon 2023-01-16 15:20:19 IST; 29min ago

  Main PID: 963 (mysqld)

    Status: "Server is operational"

```
     Tasks: 40 (limit: 2287)

    Memory: 117.2M

       CPU: 11.019s

    CGroup: /system.slice/mysql.service

           └─963 /usr/sbin/mysqld
```

Jan 16 15:20:14 Ubuntu systemd[1]: Starting MySQL Community Server...

Jan 16 15:20:19 Ubuntu systemd[1]: Started MySQL Community Server.

lines 1-13/13 (END)

sathish@Ubuntu:/$

installing all php

sathish@Ubuntu:/$ sudo apt install php libapache2-mod-php php-mysql

[sudo] password for sathish:

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

libapache2-mod-php is already the newest version (2:8.1+92ubuntu1).

php is already the newest version (2:8.1+92ubuntu1).

php-mysql is already the newest version (2:8.1+92ubuntu1).

The following packages were automatically installed and are no longer required:

  libflashrom1 libftdi1-2

Use 'sudo apt autoremove' to remove them.

0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.

sathish@Ubuntu:/$ sudo apt install php-curl php-gd php-mbstring php-xml php-xmlrpc php-soap php-intl php-zip

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

php-curl is already the newest version (2:8.1+92ubuntu1).

php-gd is already the newest version (2:8.1+92ubuntu1).

php-xml is already the newest version (2:8.1+92ubuntu1).

php-intl is already the newest version (2:8.1+92ubuntu1).

php-mbstring is already the newest version (2:8.1+92ubuntu1).

php-soap is already the newest version (2:8.1+92ubuntu1).

php-xmlrpc is already the newest version (3:1.0.0~rc3-2).

php-zip is already the newest version (2:8.1+92ubuntu1).

The following packages were automatically installed and are no longer required:

  libflashrom1 libftdi1-2

Use 'sudo apt autoremove' to remove them.

0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.

Check php Version

sathish@Ubuntu:/$ php -v

PHP 8.1.2-1ubuntu2.9 (cli) (built: Oct 19 2022 14:58:09) (NTS)

Copyright (c) The PHP Group

Zend Engine v4.1.2, Copyright (c) Zend Technologies

    with Zend OPcache v8.1.2-1ubuntu2.9, Copyright (c), by Zend Technologies

Restart Apache2

sathish@Ubuntu:/$ sudo systemctl restart apache2

Download Wordpress on var/www/html

sathish@Ubuntu:/$ cd /var/www/html/

sathish@Ubuntu:/var/www/html$ sudo wget -c http://wordpress.org/latest.tar.gz

--2023-01-16 16:08:44-- http://wordpress.org/latest.tar.gz

Resolving wordpress.org (wordpress.org)... 198.143.164.252

Connecting to wordpress.org (wordpress.org)|198.143.164.252|:80... connected.

```
HTTP request sent, awaiting response... 301 Moved Permanently

Location: https://wordpress.org/latest.tar.gz [following]

--2023-01-16 16:08:45--  https://wordpress.org/latest.tar.gz

Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.

HTTP request sent, awaiting response... 200 OK

Length: 22751086 (22M) [application/octet-stream]

Saving to: 'latest.tar.gz'


latest.tar.gz       100%[===================>]  21.70M  2.42MB/s    in 11s


2023-01-16 16:08:57 (2.02 MB/s) - 'latest.tar.gz' saved [22751086/22751086]
```

Extract Downloaded Wordpress

```
sathish@Ubuntu:/var/www/html$ ls -l

total 22236

-rw-r--r-- 1 root root    10671 Jan 13 15:32 index.html

-rw-r--r-- 1 root root      612 Jan 12 14:33 index.nginx-debian.html

-rw-r--r-- 1 root root 22751086 Nov 16 00:34 latest.tar.gz

sathish@Ubuntu:/var/www/html$ sudo tar -xzvf latest.tar.gz

wordpress/

wordpress/xmlrpc.php

wordpress/wp-blog-header.php

wordpress/readme.html

wordpress/wp-signup.php

wordpress/in .... ..... ....
```

Change Owner Permission of extracted file

```
sathish@Ubuntu:/var/www/html$ ls -l

total 22240
```

```
-rw-r--r-- 1 root   root       10671 Jan 13 15:32 index.html

-rw-r--r-- 1 root   root         612 Jan 12 14:33 index.nginx-debian.html

-rw-r--r-- 1 root   root     22751086 Nov 16 00:34 latest.tar.gz

drwxr-xr-x 5 nobody nogroup      4096 Nov 16 00:33 wordpress
```

sathish@Ubuntu:/var/www/html$ sudo chown -R root:root /var/www/html/wordpress

Creating Database

sathish@Ubuntu:/var/www/html$ sudo mysql -u root -p

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 20

Server version: 8.0.31-0ubuntu0.22.04.1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective

owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE wp_db;

Query OK, 1 row affected (0.02 sec)

mysql> CREATE USER firstwp@localhost IDENTIFIED BY 'Abcd@1234';

Query OK, 0 rows affected (0.22 sec)

mysql> GRANT ALL PRIVILEGES ON wp_db. * TO firstwp@localhost;

Query OK, 0 rows affected (0.01 sec)

```
mysql> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.02 sec)


mysql> exit

Bye
```

create and Edit Config File

```
sathish@Ubuntu:/var/www/html$ cd wordpress
```

rename sample config to main

```
sathish@Ubuntu:/var/www/html/wordpress$ ls

index.php         wp-blog-header.php    wp-includes         wp-settings.php

license.txt       wp-comments-post.php  wp-links-opml.php   wp-signup.php

readme.html       wp-config-sample.php  wp-load.php         wp-trackback.php

wp-activate.php   wp-content            wp-login.php        xmlrpc.php

wp-admin          wp-cron.php           wp-mail.php

sathish@Ubuntu:/var/www/html/wordpress$ mv wp-config-sample.php wp-config.php

sathish@Ubuntu:/var/www/html/wordpress$ ls

index.php         wp-blog-header.php    wp-includes         wp-settings.php

license.txt       wp-comments-post.php  wp-links-opml.php   wp-signup.php

readme.html       wp-config.php         wp-load.php         wp-trackback.php

wp-activate.php   wp-content            wp-login.php        xmlrpc.php

wp-admin          wp-cron.php           wp-mail.php

sathish@Ubuntu:/var/www/html/wordpress$
```
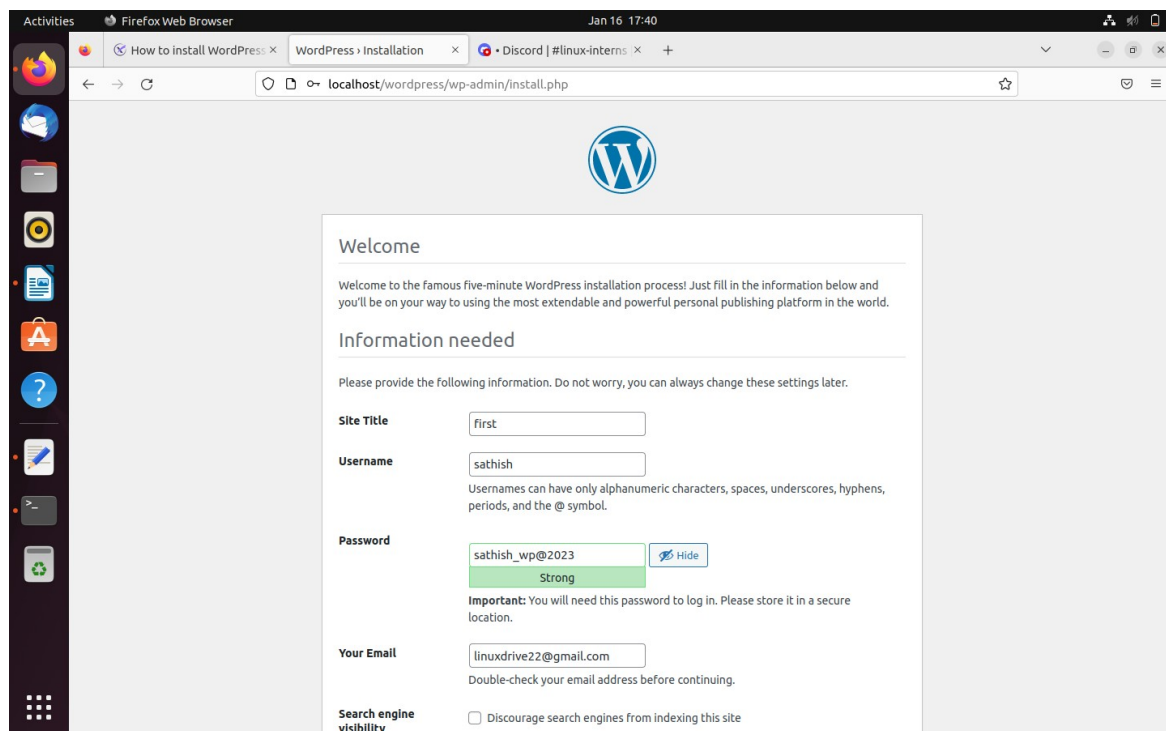
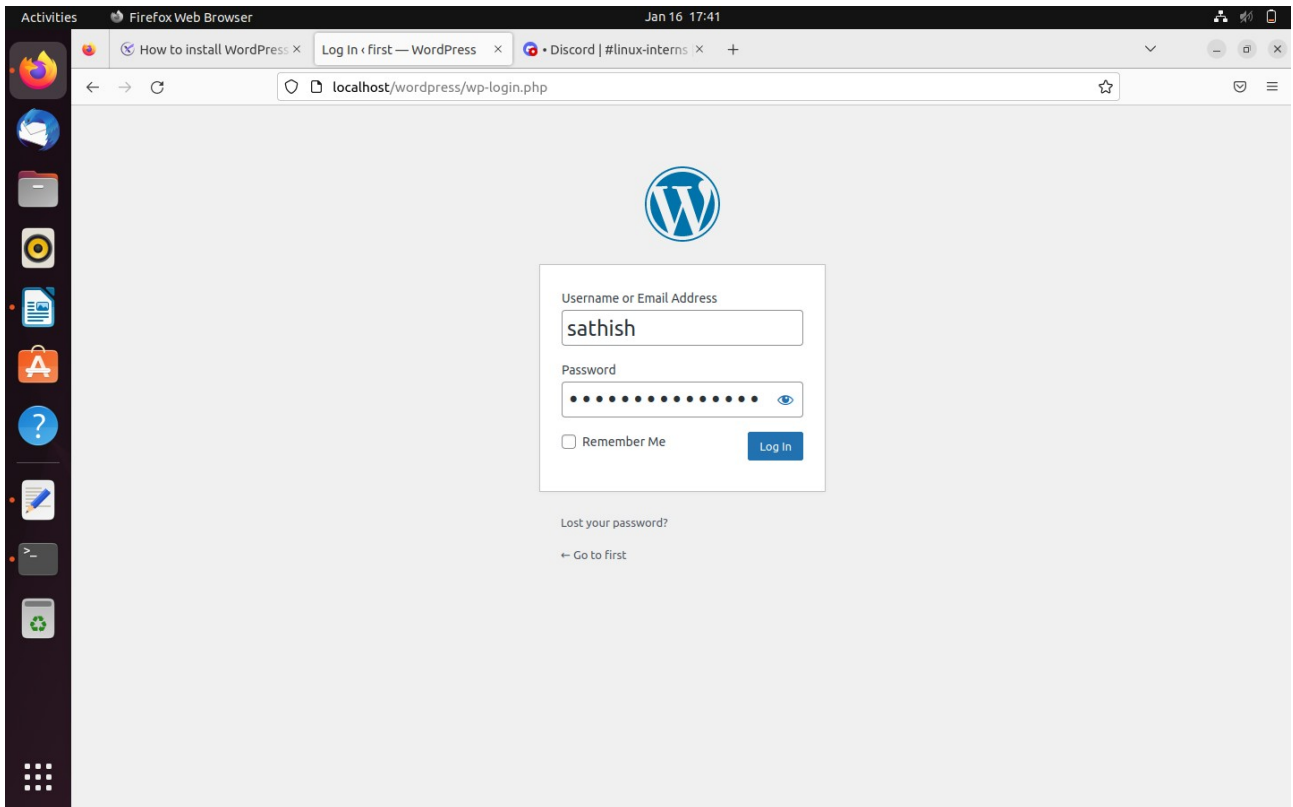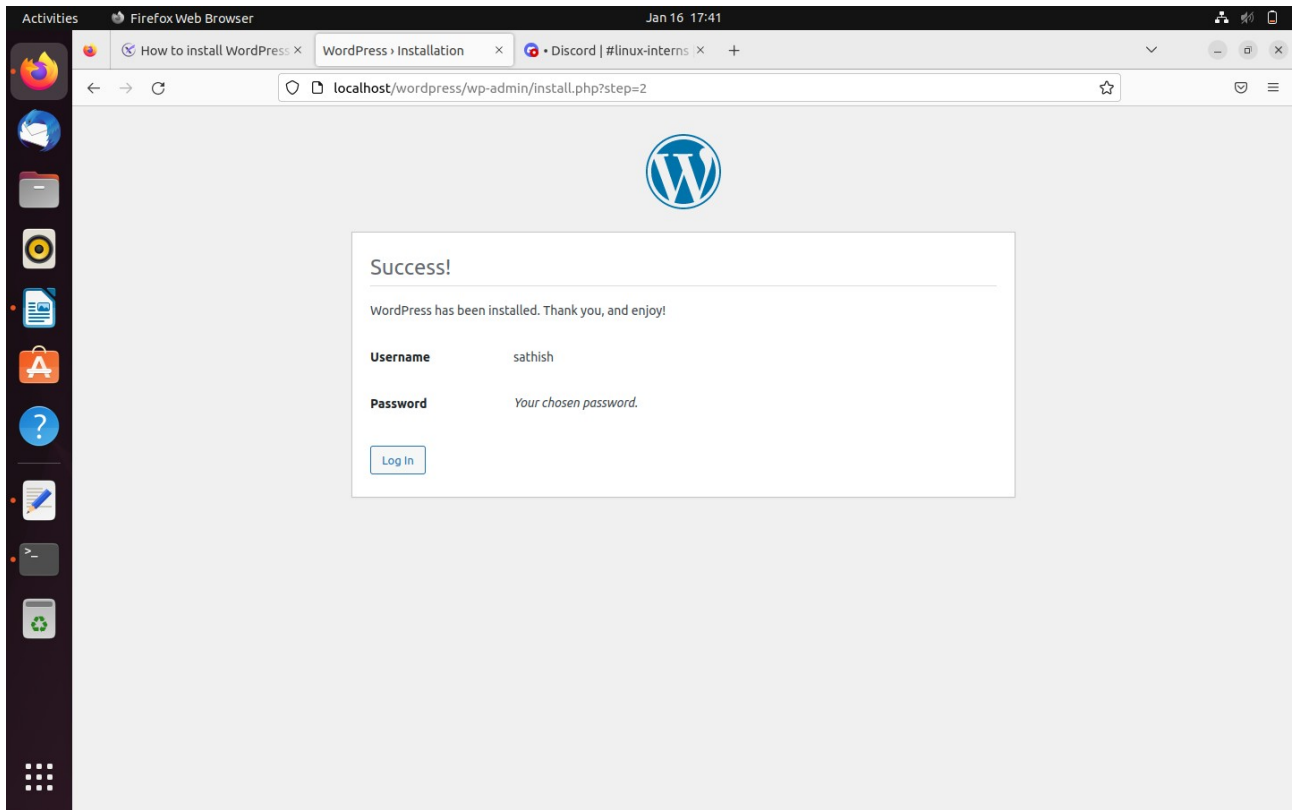**Edit Config put Database name,db username, and password**

```
sathish@Ubuntu:/var/www/html/wordpress$ gedit wp-config.php
```
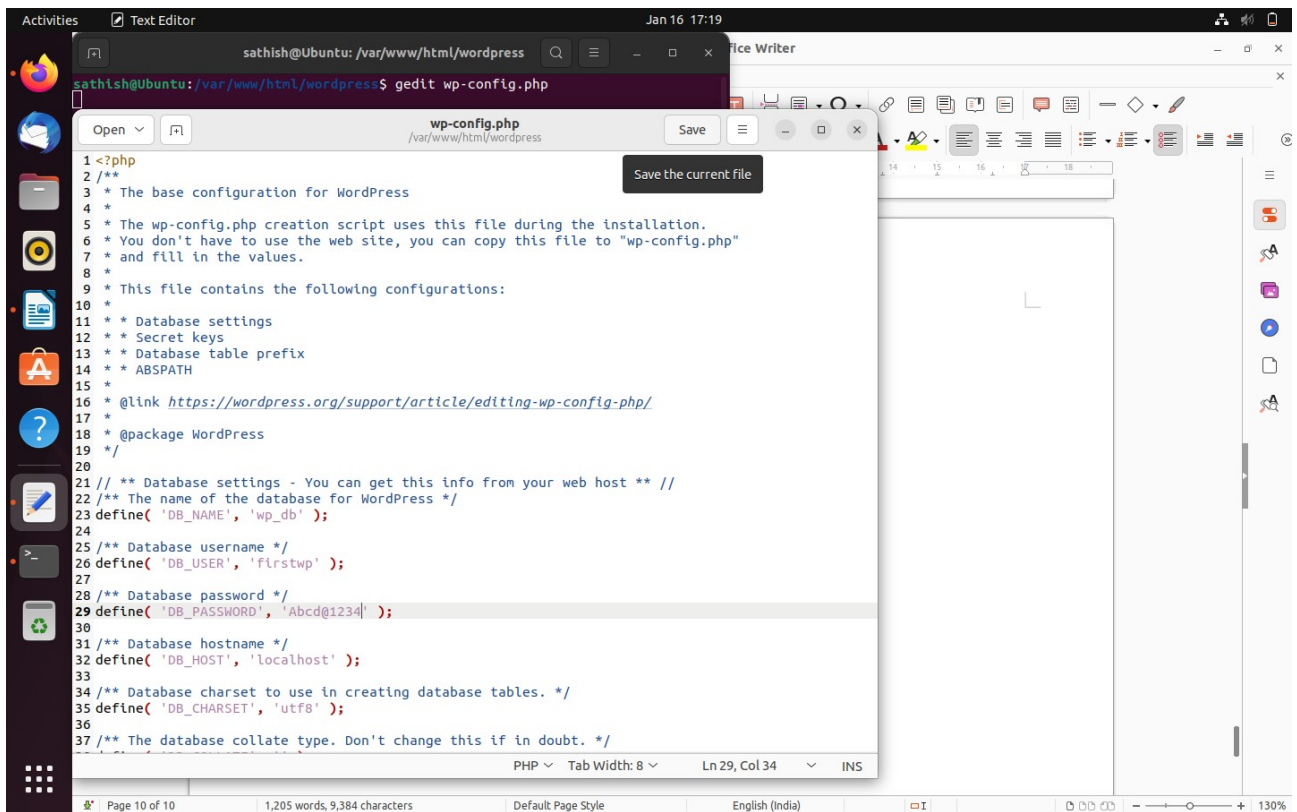
All Done ...

Open on Browser localhost/wordpress

kk