Mariadb Server

MariaDB is a popular alternative to the MySQL database management system. It is developed by the original MySQL developers and is meant to remain open source.
MariaDB is fast and reliable, supports different storage engines and has plugins which makes it perfect for wide range of use cases.

- # yum makecache
- # yum install php-mysqlnd php-fpm mariadb-server httpd tar curl php-json
- Open HTTP and optionally HTTPS port 80 and 443 on your firewall:
- # firewall-cmd –permanent –zone=public –add-service=http
- # firewall-cmd –permanent –zone=public –add-service=https
- # firewall-cmd –permanent –zone=public –add-port=3306/tcp
- # firewall-cmd –reload
- Start both the Apache webserver and the MariaDB services:
1. # systemctl start mariadb
2. # systemctl start httpd

Enable MariaDB and httpd to start after system reboot:

systemctl enable mariadb

systemctl enable httpd

(Optional) Secure your MariaDB installation and set root password:

1. # mysql_secure_installation
- Create a new database wordpress and give new user admin access to the wordpress database with password pass:
1. # mysql -u root -p
2. mysql> CREATE DATABASE wordpress;
3. mysql> CREATE USER `admin`@`localhost` IDENTIFIED BY 'Password';
4. mysql> GRANT ALL ON wordpress.* TO `admin`@`localhost`;
5. mysql> FLUSH PRIVILEGES;
6. mysql> exit
- Download and extract WordPress. Start by downloading the WordPress installation package and extracting its content:
- $ curl https://wordpress.org/latest.tar.gz –output wordpress.tar.gz
- $ tar -xzvf wordpress.tar.gz

Copy the extracted WordPress directory into the /var/www/html directory:

cp -r wordpress /var/www/html

Lastly in this step, change permissions and change file SELinux security context:

chown -R apache:apache /var/www/html/wordpress

chcon -t httpd_sys_rw_content_t /var/www/html/wordpress -R

Access WordPress installation wizard and perform the actual WordPress installation. Navigate your browser to http://localhost/wordpress or http://SERVER-HOST-NAME/wordpress and follow the instructions

Mariadb Server

yum install mariadb-server

Install sever

```
[root@vivek vgandhi]# yum install mariadb
mariadb-backup.x86_64                mariadb-connector-c
mariadb-common.x86_64                mariadb-connector-c
mariadb-connector-c-config.noarch  mariadb-connector-c
mariadb-connector-c-devel.i686     mariadb-connector-c
[root@vivek vgandhi]# yum install mariadb-server
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription
Redhat Enterprise Linux 8.2 -AppStream
Redhat Enterprise Linux 8.2 -baseos
```

systemctl status mariadb

Service start

```
[root@vivek vgandhi]# systemctl start mariadb
[root@vivek vgandhi]# systemctl enable mariadb
Created symlink /etc/systemd/system/mysql.service → /usr/lib/sys
Created symlink /etc/systemd/system/mysqld.service → /usr/lib/sy
Created symlink /etc/systemd/system/multi-user.target.wants/mari
[root@vivek vgandhi]# systemctl status mariadb
● mariadb.service - MariaDB 10.3 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enab
   Active: active (running) since Fri 2022-02-25 07:20:04 EST; 2
     Docs: man:mysqld(8)
```

mysql_secure_installation

Change passwd in sql step by step   **Pw:- Vivek@6_**

```
[root@vivek vgandhi]# mysql_secure_installation

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
      SERVERS IN PRODUCTION USE!  PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user.  If you've just installed MariaDB, and
you haven't set the root password yet, the password will be blank,
so you should just press enter here.
```

```
Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password ensures that nobody can log into the MariaDB
root user without the proper authorisation.

Set root password? [Y/n] y
New password:
Re-enter new password:
Password updated successfully!
Reloading privilege tables..
 ... Success!
```

```
Remove anonymous users? [Y/n] 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.
```

CREATED BY:- **VIVEK GANDHI**

Mariadb Server

```
Disallow root login remotely? [Y/n] y
 ... Success!

By default, MariaDB 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? [Y/n] 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? [Y/n] y
 ... Success!

Cleaning up...

All done!  If you've completed all of the above steps, your MariaDB
installation should now be secure.

Thanks for using MariaDB!
[root@vivek vgandhi]#
```

mysql -u root -p

Access mariadb server

```
[root@vivek vgandhi]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 19
Server version: 10.3.17-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> CREATE DATABASE vivek;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> GRANT ALL ON vivek.* TO vivek_user@localhost IDENTIFIED BY 'securePassowrd';
Query OK, 0 rows affected (0.001 sec)

MariaDB [(none)]> quit
Bye
[root@vivek vgandhi]#
```

Install httpd

```
[root@vivek vgandhi]# yum install httpd -y
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management. You can
Last metadata expiration check: 0:15:54 ago on Fri 25 Feb 2022 07:17:54 AM
Dependencies resolved.
================================================================
 Package                                  Architecture
================================================================
Installing:
```

Mariadb Server

Link https://linuxconfig.org/install-wordpress-on-redhat-8

yum install php-mysqlnd php-fpm mariadb-server httpd tar curl php-json

Install all application

```
[root@vivek html]# dnf install php-mysqlnd php-fpm mariadb-server httpd tar curl php-json
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management. You can use subscription-manager
Last metadata expiration check: 0:24:11 ago on Fri 25 Feb 2022 08:14:36 AM EST.
Package php-mysqlnd-7.2.24-1.module+el8.2.0+4601+7c76a223.x86_64 is already installed.
Package php-fpm-7.2.24-1.module+el8.2.0+4601+7c76a223.x86_64 is already installed.
Package mariadb-server-3:10.3.17-1.module+el8.1.0+3974+90eded84.x86_64 is already installed.
Package httpd-2.4.37-21.module+el8.2.0+5008+cca404a3.x86_64 is already installed.
Package tar-2:1.30-4.el8.x86_64 is already installed.
Package curl-7.61.1-12.el8.x86_64 is already installed.
Dependencies resolved.
==============================================================================
 Package                        Architecture                     Version
```

Install php

```
[root@vivek vgandhi]# yum install php -y
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management.
Last metadata expiration check: 0:18:03 ago on Fri 25 Feb 2022 07
Dependencies resolved.
```

```
[root@vivek Packages]# yum install php-mysqlnd.x86_64
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management. You can use su
Last metadata expiration check: 0:24:32 ago on Fri 25 Feb 2022 07:17:54 AM EST.
Dependencies resolved.
================================================================================
 Package                                           Architecture
================================================================================
Installing:
 php-mysqlnd                                       x86_64
Installing dependencies:
 php-pdo                                           x86_64
```

firewall-cmd --permanent --zone=public --add-service=http

Open HTTP and optionally HTTPS port 80 and 443 on your firewall:

```
[root@vivek html]# firewall-cmd --permanent --zone=public --add-service=http
Warning: ALREADY_ENABLED: http
success
[root@vivek html]# firewall-cmd --permanent --zone=public --add-service=https
success
[root@vivek html]# firewall-cmd --reload
success
[root@vivek html]#
```

Mariadb Server

Start both the Apache webserver and the MariaDB services:

systemctl start mariadb

systemctl start httpd

```
[root@vivek html]# systemctl start mariadb
[root@vivek html]# systemctl start httpd
[root@vivek html]#
[root@vivek html]#
[root@vivek html]# systemctl enable mariadb
[root@vivek html]# systemctl enable httpd
[root@vivek html]#
```

Create a new database wordpress and give new user admin access to the wordpress database with password pass

```
mysql -u root -p

mysql> CREATE DATABASE wordpress;

mysql> CREATE USER `admin`@`localhost` IDENTIFIED BY 'pass';

mysql> GRANT ALL ON wordpress.* TO `admin`@`localhost`;

mysql> FLUSH PRIVILEGES;

mysql> exit
```

```
[root@vivek html]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 9
Server version: 10.3.17-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> CREATE DATABASE wordpress;
Query OK, 1 row affected (0.002 sec)

MariaDB [(none)]> CREATE USER `admin`@`localhost` IDENTIFIED BY 'pass';
Query OK, 0 rows affected (0.045 sec)

MariaDB [(none)]> GRANT ALL ON wordpress.* TO `admin`@`localhost`;
Query OK, 0 rows affected (0.042 sec)

MariaDB [(none)]> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.040 sec)

MariaDB [(none)]> quit
Bye
[root@vivek html]#
```

Mariadb Server

Download and extract WordPress. Start by downloading the WordPress installation package and extracting its content:

cd /var/www/html/

```
[root@vivek ~]# cd /var/www/html/
[root@vivek html]# ls
[root@vivek html]# wget https://wordpress.org/latest.zip
--2022-02-25 08:12:06--  https://wordpress.org/latest.zip
Resolving wordpress.org (wordpress.org)... 198.143.164.252
Connecting to wordpress.org (wordpress.org)|198.143.164.252|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 20268494 (19M) [application/zip]
Saving to: 'latest.zip'
```

```
[root@vivek html]# unzip latest.zip
```

Not remove wordpress folder

```
[root@vivek html]# ls
latest.zip   wordpress
[root@vivek html]# rm -rf latest.zip
[root@vivek html]# ls
wordpress
[root@vivek html]# cp -r wordpress/* /var/www/html/
[root@vivek html]# ls
index.php      readme.html   wp-activate.php    wp-blog-header.php      wp-
license.txt   wordpress     wp-admin           wp-comments-post.php    wp-
[root@vivek html]# rm -rf wordpress/
[root@vivek html]# ll
total 212
-rw-r--r--.  1 root root    405 Feb 25 08:20 index.php
-rw-r--r--.  1 root root  19915 Feb 25 08:20 license.txt
-rw-r--r--.  1 root root   7437 Feb 25 08:20 readme.html
-rw-r--r--.  1 root root   7165 Feb 25 08:20 wp-activate.php
drwxr-xr-x.  9 root root   4096 Feb 25 08:20 wp-admin
```

Restart services

```
[root@vivek html]# systemctl start httpd
[root@vivek html]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants
[root@vivek html]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; e
   Drop-In: /usr/lib/systemd/system/httpd.service.d
            └─php-fpm.conf
   Active: active (running) since Fri 2022-02-25 08:21:40 E
```

Lastly in this step, change permissions and change file SELinux security context:

chown -R apache:apache /var/www/html/wordpress

chcon -t httpd_sys_rw_content_t /var/www/html/wordpress -R

```
[root@vivek html]# chown -R apache:apache /var/www/html/wordpress
[root@vivek html]# chcon -t httpd_sys_rw_content_t /var/www/html/wordpress -R
[root@vivek html]# ll
total 20012
-rw-r--r--.  1 root    root       405 Feb 25 08:20 index.php
-rw-r--r--.  1 root    root  20268494 Feb 22 10:20 latest.zip
-rw-r--r--.  1 root    root     19915 Feb 25 08:20 license.txt
-rw-r--r--.  1 root    root      7437 Feb 25 08:20 readme.html
drwxr-xr-x.  5 apache  apache    4096 Feb 22 10:19 wordpress
-rw-r--r--.  1 root    root      7165 Feb 25 08:20 wp-activate.php
```

Mariadb Server
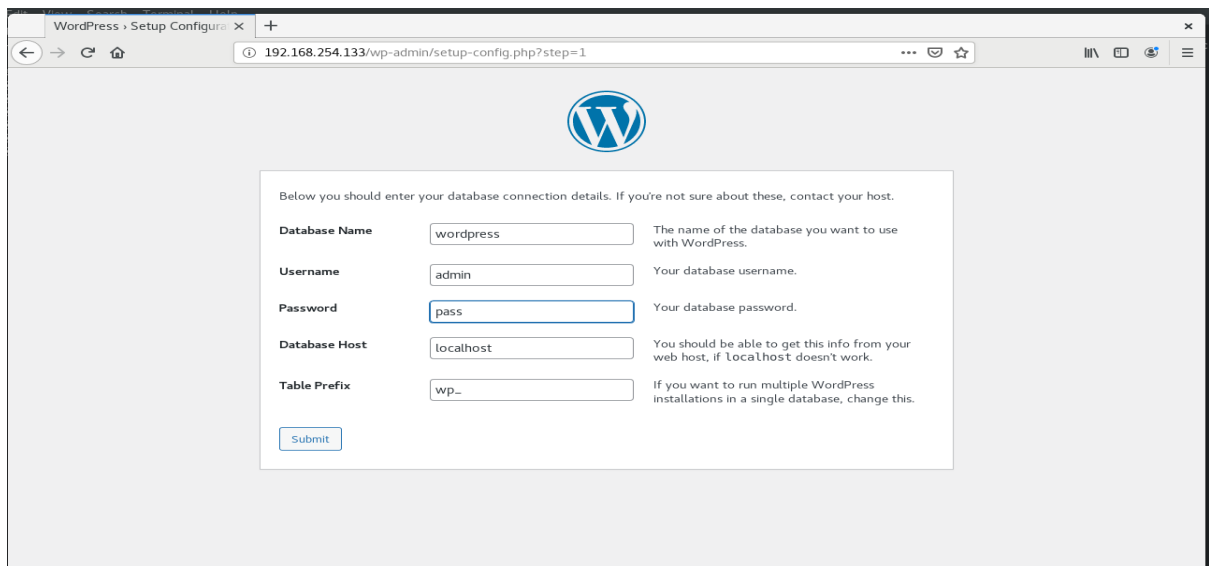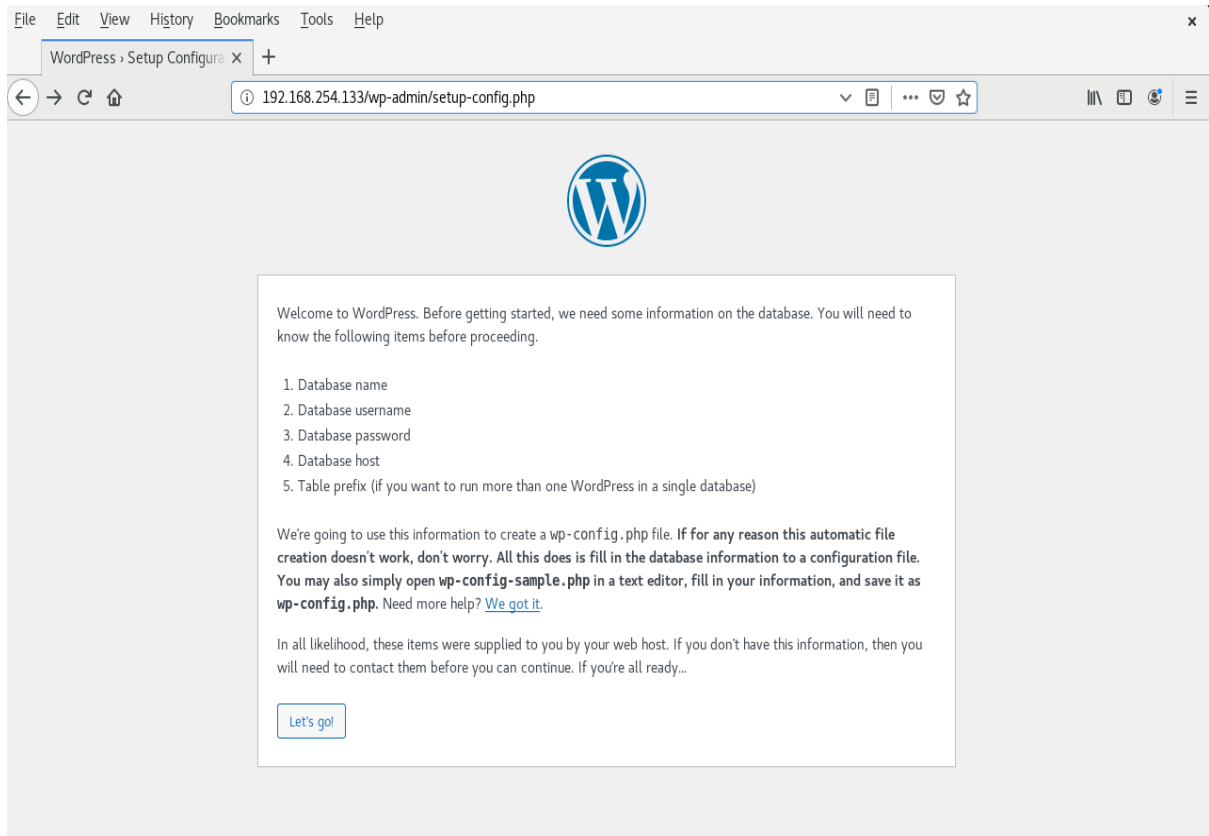
Mariadb Server

Copy all text

Unable to write to `wp-config.php` file.

You can create the `wp-config.php` file manually and paste the following text into it.

```php
<?php
/**
 * The base configuration for WordPress
 *
 * The wp-config.php creation script uses this file during the installation.
 * You don't have to use the web site, you can copy this file to "wp-config.php"
 * and fill in the values.
 *
 * This file contains the following configurations:
 *
 * * Database settings
 * * Secret keys
 * * Database table prefix
 * * ABSPATH
 *
 * @link https://wordpress.org/support/article/editing-wp-config-php/
```

After you've done that, click "Run the installation".

[Run the installation]

Past all data create new file

```
[root@vivek html]# vim wp-config.php
[root@vivek html]# vim wp-config.php
 * @since 2.6.0
 */
define( 'AUTH_KEY',         '%)0mH8]AxLrPgR,]1s}/Cfbi<Ee`U~QtdS1W81H Pw[%c]mdoB*}r`4Ws#QyX7f-' );
define( 'SECURE_AUTH_KEY',  '>xvn;*PeRXNy<2d,$E.2cUn1e31 ()Uq*1V8kLa71(2(`Q$1cgMWcALX0$^tF5I.' );
define( 'LOGGED_IN_KEY',    'bMi/X9B19erO%P%x].ZTeslUX&sftQV|>Hf-&Id1nO:7zo,^<fSYh|.7Dkee/$|-' );
define( 'NONCE_KEY',        'J7S=^.f:4df*`;!Y|/Yg2iW3rCYmRkA20sWxOJwg}S1)NV=f,`;GU.p?LUEp( }6' );
define( 'AUTH_SALT',        'J+]wo!8_ /Y|ug1Z38;@zs++b[jsn3fS_8k{S[eE[[~;TRJ@n46*1uY(A1n^/GCO' );
define( 'SECURE_AUTH_SALT', ':sz3Bqe#1gP()dM(Z1o&7ZC-j8^f0R>4%21*>fG{K9U*Br/qgCy+=EQ!mz.MK<PC' );
define( 'LOGGED_IN_SALT',   'BFt<^eV7x+!6}p~T;p{RB-vu>F|o ZIoOw8*8m`Fa5[z2GMfDOv)qH1b028)z%`*' );
define( 'NONCE_SALT',       'qfrV)s#AP&>4Gy(2QW~V.dE{@RVJ1ZZ69hoJ1~5{*3G|[*@Ezbjv>gD#0Sm7SWDf' );

/**#@-*/

/**
 * WordPress database table prefix.
 *
 * You can have multiple installations in one database if you give each
```


Welcome

Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.

Information needed

Please provide the following information. Don't worry, you can always change these settings later.

Site Title   vivek

Username   admin

Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.
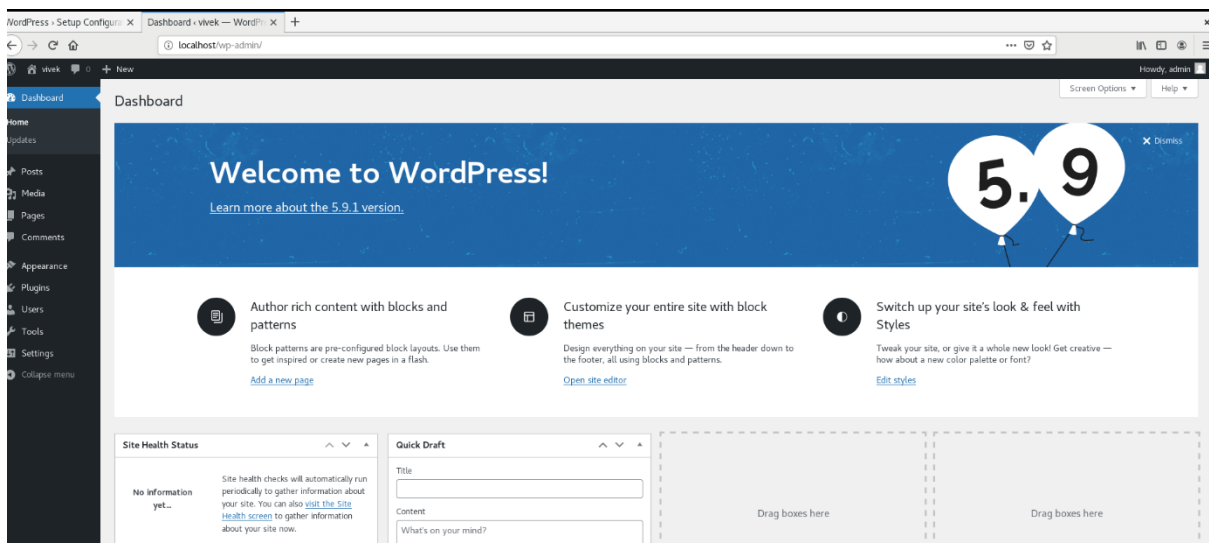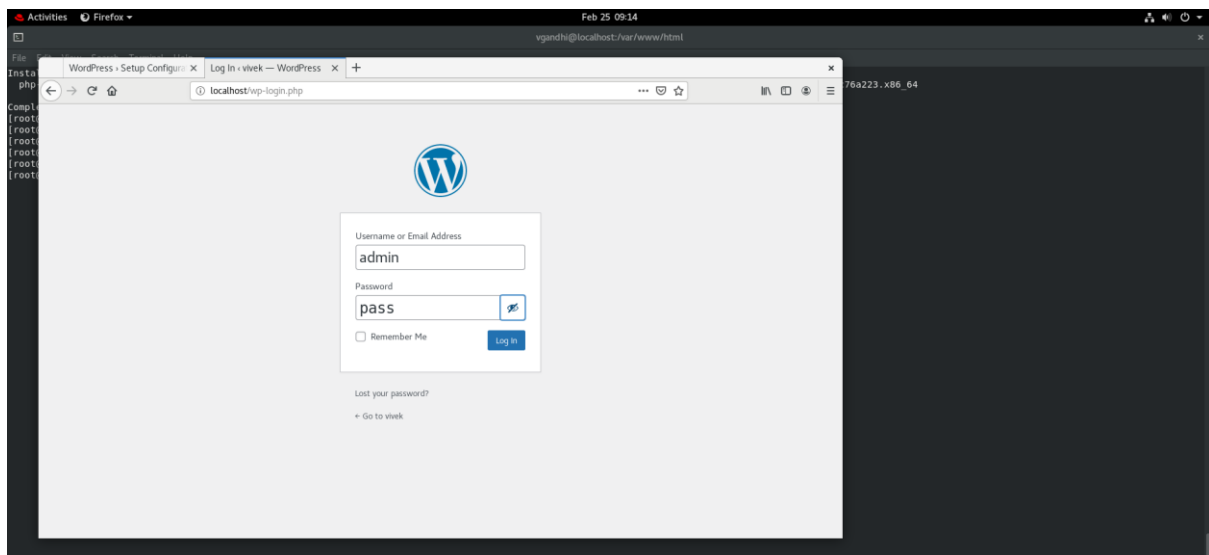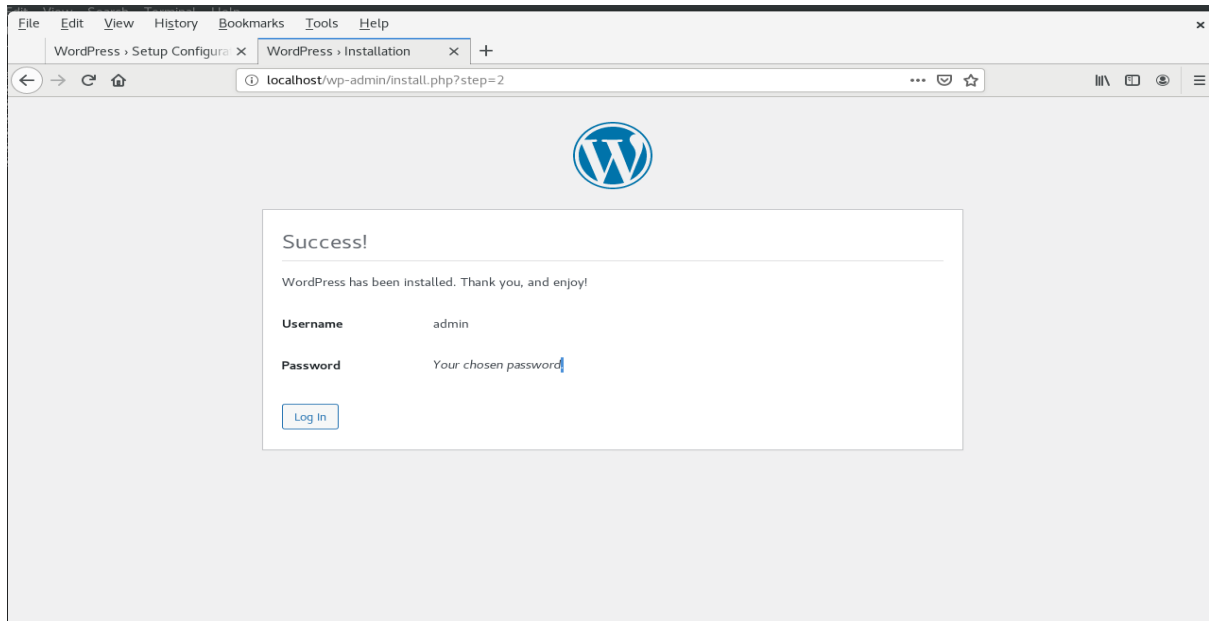
Password   pass   [👁 Hide]
                      Very weak

Important: You will need this password to log in. Please store it in a secure location.

Confirm Password ☑ Confirm use of weak password

Your Email   gandhivivek2@gmail.com

Double-check your email address before continuing.

Search engine visibility ☐ Discourage search engines from indexing this site

It is up to search engines to honor this request.

Mariadb Server

Success!

WordPress has been installed. Thank you, and enjoy!

Username	admin
Password	*Your chosen password*

Log In

Mariadb Server

```
[root@vivek html]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 30
Server version: 10.3.17-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| vivek              |
| wordpress          |
+--------------------+
5 rows in set (0.053 sec)

MariaDB [(none)]>
```

Another system login to server ip then output