Host WordPress Serve On Ubuntu Server

LEMP Stack (Linux Nginx Mysql Php)

Requirements

WordPress will need a web server, a database, and PHP in order to correctly function. Setting up a LEMP stack (Linux, Nginx, MySQL, and PHP) fulfills all of these requirements.

Step 1 --> SSH to Linux Machine and Update the Sytem

First Ssh into your Linux machine

Before we begin, let's update and upgrade the system. Login as the root user to your system and update the system to update the repositories.

```
ssh root@159.89.160.233

apt-get update && apt-get upgrade -y
```

Step 2 --> Creating a MySQL Database and User for WordPress.

FIrst Log in to Root User Because we can Create Database only by Root Permissions

Dont Forgot to put colon ; at the end of mySQL

```
sudo su
```

Then Install My SQL

```
sudo apt-get install mysql-server mysql-client
```

then start SQL

```
sudo mysql
```

If you have changed the authentication method to use a password for the MySQL root account, use the following command instead:

```
mysql -u root -p
```

You will be prompted for the password you set for the MySQL root account.

Once logged in, create a separate database that WordPress can control. You can call this whatever you would like, but we will be using wordpress in this guide to keep it simple. You can create a database for WordPress by entering:

Create DATABASE:

```
CREATE DATABASE 'Database_name';
```

Create user

```
CREATE USER 'user_name';
```

Grant all permission to user

```
GRANT ALL ON wordpress.* TO 'wordpressuser_name'@'localhost';
```

Exit

Step 3 —> Installing Additional PHP Extensions

FIrst Install PHP

```
sudo apt install php7.4-fpm
```

insert mysql extension in php

```
sudo apt install php7.4-mysql
```

restart php

```
sudo systemctl restart php7.4-fpm
```

Step 4 —> Install And Configuring Nginx

Install Nginx

```
sudo apt-get install nginx
```

now create file to configure nginx in /etc/nginx/sites-available/

```
/etc/nginx/sites-available/
```

and then configuration create file in this folder /etc/nginx/sites-available/

```
sudo nano webcase.me.conf
```

```
server {
        listen 80;
        server_name webcase.me;
        root /var/www/wordpress;
        index index.php index.html index.htm;

        location / {
                try_files $uri $uri/ /index.php$is_args$args;
        }


        location ~ \.php$ {
            fastcgi_split_path_info ^(.+\.php)(/.+)$;
            fastcgi_pass unix:/var/run/php/php7.4-fpm.sock;
            fastcgi_index index.php;
            include fastcgi.conf;
        }

         access_log /var/log/nginx/dvis_wp-access.log;
         error_log /var/log/nginx/dvis_wp-error.log;
}
```

Now we need to enable the newly created nginx configuration. For that we need to create a symbolic in /etc/nginx/sites-enabled/ using this command

```
root@divs-:$ ln -s /etc/nginx/sites-available/webcase.me.conf
/etc/nginx/sites-enabled/webcase.me.conf
```

Once Linked we need to check the nginx Configuration if its valid or not using folowing command.

```
root@divs-:$ sudo nginx -t
```

Now Restart the website

```
root@divs-:$ sudo systemctl restart nginx.service
```

Step 5 —> Downloading WordPress

Download wordpress

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

Now Uncompress

```
tar -xvf latest.tar.gz
```

change ownership of 'wordpress' directory.

```
chown -R www-data:www-data wordpress/
```

now check the permision

```
ls -lah
```

Open your browser and go to the server's URL. In my case it's

```
https://server-ip/wordpress
```

Step 6 —> Completing the Installation Through the Web Interface.

Now we will get wordpress interface on browser

If all the details are correct, you will be given the green light to proceed. Run the installation.

⚠ Not secure | 38.76.11.103/wordpress/wp-admin/install.php?language=en_US ⚡ ☆ Ⓚ 🅰

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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   journaldev

Username   james

Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password   ●●●●●●●●●●●●●●   👁 Show

                      Strong

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

Fill out the additional details required such as site title, Username, and Password and save them somewhere safe lest you forget. Ensure to use a strong password.

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Information needed

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

Site Title   journaldev

Username   james

Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.

Password   ●●●●●●●●●●●●●●   👁 Show

                      Strong

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

Scroll down and Hit 'Install WordPress'. If all went well, then you will get a 'Success' notification as shown.

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Success!

WordPress has been installed. Thank you, and enjoy!

Username   james

Password   *Your chosen password.*

[Log In]

Username or Email Address

james

Password

•••••••••••••••

☐ Remember Me   Log In

Lost your password?

← Back to journaldev

Setp 7--> After Create Site in worpress Assign ssl Certificate Using Certbot.

after create sit in worpress --> assign ssl certificate using certbot.

we need to install 2 packages

--> certbot

```
sudo apt-get install certbot python3-certbot-nginx
```

then

```
sudo certbot --nginx -d divs-wp.webcase.me
```

then enter you email id

```
sudo certbot --nginx -d divs-wp.webcase.me

Saving debug log to /var/log/letsencrypt/letsencrypt.log
Plugins selected: Authenticator nginx, Installer nginx
Enter email address (used for urgent renewal and security notices) (Enter 'c'
to
cancel): divyesh.kamaldhari@gmail.com
```