**Setup NGINX Web Server with PHP-FPM and WordPress**

**Create a new MySQL database and user for WordPress. The MySQL user should be restricted to the WordPress database only.**

First Install mysql with command below:

apt install mysql-server

db pass = mynewpassword

create database wpdb;

create user 'wpuser'@'localhost' identified by 'wppassword';

grant all on wpdb.\* to 'wpuser'@'localhost';

show grants for 'wpuser'@'localhost';

**Create a new Linux user and deploy the application within the user's home directory.**

useradd wpu

su - wpu; mkdir wordpress

**Use wp-cli to setup WordPress.**

curl -O https://raw.githubusercontent.com/wp-cli/builds/gh-pages/phar/wp-cli.phar

chmod +x wp-cli.phar

mv wp-cli.phar /usr/local/bin/wp

wp --info

su - wpu

wp core download

wp core config --dbname=wpdb --dbuser=wpuser --dbpass=wppassword --dbhost=localhost --dbprefix=wp\_

wp core install --url=mywpsite.local --title=Demo\_WP\_Site --admin\_name=admin --admin\_password=password123 --admin\_email=wpsite@example.com

chmod 644 wp-config.php

**Setup a separate PHP-FPM Pool for WordPress. Make sure that the PHP-FPM pool processes run as the Linux user you have created.**

In pool.d directory there is a pool file named as www.conf it is copied to wp.conf and edit file accordingly to create a new pool.

After file has been save need to restart the service to make the changes effect.

To check if the process is running with the desired user we will use the command below:

ps aux | grep fpm

**The PHP-FPM pool for WordPress should override PHP settings so that files above 25MB can be uploaded to the server via the WordPress admin console.**

In file /etc/php/7.4/fpm/pool.d/wp.conf added below params:

php\_admin\_value[upload\_max\_filesize] = 50M

php\_admin\_value[post\_max\_size] = 50M

**Make sure that NGINX version, OS version and PHP version in HTTP headers is not publicly visible when browsing via curl command e.g. curl http://localhost/ or http://IP\_ADDRESS\_OF\_YOUR\_VM.**

First we check the headers for such info via command below:

curl -v <http://localhost/> OR curl -IsL <http://localhost/> | grep -i server

Found OS and Nginx version in header info. So we open the file and edit below:

vi /etc/nginx/nginx.conf

un-comment line or add if not there

server\_tokens off;

save config file and restart nginx service

In addition to remove Server block add below line in nginx.conf file and restart service:

more\_clear\_headers Server;

**NGINX should be configured in such a way that wp-config.php file is not accessible via the browser.**

Added below syntex to do so:

location = /wp-config.php {

deny all;

return 403;

}

**Useful Links:**

<https://www.liquidweb.com/kb/install-wp-cli>

<https://www.hostinger.com/tutorials/wp-cli>  
<https://stackoverflow.com/questions/51203472/nginx-restrict-access-to-file>