

1. Install Wordpress on a VM. Try using Apache httpd once and then again using Nginx.
 - Note where the web server logs are written and understand log fields.
 - Understand what Nginx proxy_pass is.

MyWork:

- sudo apt update -y

1) Wordpress in Apache2 server

Installing Dependencies:

- sudo apt install apache2 \
ghostscript \
libapache2-mod-php \
mysql-server \
php \
php-bcmath \
php-curl \
php-imagick \
php-intl \
php-json \
php-mbstring \
php-mysql \
php-xml \
Php-zip

Install Wordpress:

- sudo mkdir -p /srv/www
- sudo chown www-data: /srv/www
- curl https://wordpress.org/latest.tar.gz | sudo -u www-data tar zx -C /srv/www

Configure Apache2 for wordpress:

- sudo nano /etc/apache2/sites-available/wordpress.conf
<VirtualHost *:80>
DocumentRoot /srv/www/wordpress
<Directory /srv/www/wordpress>
Options FollowSymLinks
AllowOverride Limit Options FileInfo
DirectoryIndex index.php
Require all granted
</Directory>
<Directory /srv/www/wordpress/wp-content>
Options FollowSymLinks
Require all granted
</Directory>

</VirtualHost>

- sudo a2ensite wordpress
- sudo a2enmod rewrite
- sudo a2dissite 000-default
- sudo service apache2 reload

Configure wordpress to connect to MySQL database:

- sudo mysql -u root
CREATE DATABASE wordpress;
CREATE USER wordpress@localhost IDENTIFIED BY
'password';
GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP,
ALTER ON wordpress.* TO wordpress@localhost;
FLUSH PRIVILEGES;
quit

Configure wordpress

- Open <http://localhost>
- Setup username, password, email, and so on
- Login to wordpress

2. Wordpress in Nginx server:

Install Nginx:

- apt-get install nginx

Configure wordpress to connect to MySQL database:

- sudo mysql -u root
CREATE DATABASE wordpress;
CREATE USER wordpress@localhost IDENTIFIED BY
'password';
GRANT SELECT, INSERT, UPDATE, DELETE, CREATE, DROP,
ALTER ON wordpress.* TO wordpress@localhost;
FLUSH PRIVILEGES;
quit

Install PHP:

- apt-get install php7.2 php7.2-cli php7.2-fpm php7.2-mysql php7.2-json
php7.2-opcache php7.2-mbstring php7.2-xml php7.2-gd php7.2-curl

Configure Nginx for wordpress:

- mkdir -p /var/www/html/wordpress/public_html

- nano /etc/nginx/sites-available/wordpress.conf
- nginx -t
- cd /etc/nginx/sites-enabled
- ln -s ../sites-available/wordpress.conf .
- systemctl reload nginx

Download and Configure WordPress:

- cd /var/www/html/wordpress/public_html
- wget https://wordpress.org/latest.tar.gz
- tar -zxvf latest.tar.gz
- mv wordpress/* .
- rm -rf wordpress
- cd /var/www/html/wordpress/public_html
- chown -R www-data:www-data *
- chmod -R 755 *
- Configure wp-config.php in public_html file with the database details
- Open <http://localhost>
- Login to wordpress website

