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

