Assignment 4

* **setup a lamp server and host a wordpress site on your local system Note: Don't install php directly using yum or apt-get**
* compile it from source using PREFIX with /usr/local/php directory

# yum install epel-release -y

Below are required packed to compile php

# yum install autoconf libtool re2c bison libxml2-devel bzip2-devel libcurl-devel libpng-devel libicu-devel gcc-c++ libmcrypt-devel libwebp-devel libjpeg-devel openssl-devel -y

# curl -O -L https://github.com/php/php-src/archive/php-7.2.3.tar.gz  
# tar -zxvf php-7.2.3.tar.gz  
# cd php-src-php-7.2.3

Compile PHP\

# ./buildconf --force

enable certain PHP extensions such as PDO, FPM, OPCache, GD library etc.

# ./configure --prefix=/usr/local/php --enable-fpm --disable-short-tags --with-openssl --with-pcre-regex --with-pcre-jit --with-zlib --enable-bcmath --with-bz2 --enable-calendar --with-curl --enable-exif --with-gd --enable-intl --enable-mbstring --with-mysqli --enable-pcntl --with-pdo-mysql --enable-soap --enable-sockets --with-xmlrpc --enable-zip --with-webp-dir --with-jpeg-dir --with-png-dir

Compile the php

#make clean  
#make

make install command will copy the built program, and its libraries and documentation, to the correct locations.

Install the php

# make install

* **Host one more site with yourname.com and page should say i am devops ninja (Name based virtual hosting)**

PHP-FPM setup

we will be able to run PHP from Apache we need to setup PHP-FPM worker. After installation there should be PHP-FPM default configuration file in installation directory

cd /usr/local/php/etc  
mkdir fpm.d  
cp php-fpm.conf.default php-fpm.conf  
vi php-fpm.conf

Uncomment below line in configuration file PHP-FPM

include=etc/fpm.d/\*.conf  
pid = /var/run/php-fpm.pid  
error\_log = log/php-fpm.log

cd fpm.d  
vi example.com.conf

**create the file inside fpm.d for our example.com domain:**

[www] -> [example\_com] //Must be unique per file  
user = apache  
group = www  
listen = 127.0.0.1:9000 //Port must be unique per file  
catch\_workers\_output = yes  
slowlog = /var/www/example.com/logs/php-fpm.slow.log  
request\_slowlog\_timeout = 30s  
php\_flag[display\_errors] = off  
php\_admin\_value[error\_log] = /var/www/example.com/logs/php-fpm.error.log  
php\_admin\_flag[log\_errors] = on  
php\_admin\_value[memory\_limit] = 64M  
php\_admin\_value[open\_basedir] = /var/www/example.com/htdocs

php.ini and OPCache configuration

**Check if php is working**

vi /var/www/example.com/htdocs/test.php

Paste “i am devops ninja” in test.php

Save and exit

* **wordpress site should open with the domain -> mywordpress.com**

wget http://wordpress.org/latest.tar.gz

tar -xzvf latest.tar.gz

Go ahead and log into the MySQL Shell:

mysql -u root -p

CREATE DATABASE wordpress;

CREATE USER wordpressuser@localhost;

**Set the password for your new user:**

SET PASSWORD FOR wordpressuser@localhost= PASSWORD("password");

GRANT ALL PRIVILEGES ON wordpress.\* TO wordpressuser@localhost IDENTIFIED BY 'password';

Exit

# vi ~/wordpress/wp-config.php

**Paste below lines in .php file**

// \*\* MySQL settings - You can get this info from your web host \*\* //  
/\*\* The name of the database for WordPress \*/  
define('DB\_NAME', 'wordpress');  
  
/\*\* MySQL database username \*/  
define('DB\_USER', 'wordpressuser');  
  
/\*\* MySQL database password \*/  
define('DB\_PASSWORD', 'password');

sudo cp -r ~/wordpress/\* /var/www/html

sudo yum install php-gd

Systemctl start httpd