

# PHP application

1. Setup Wordpress with Apache + php fpm.

```
jay@Jay-Patel:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 18
Server version: 5.7.29-0ubuntu0.18.04.1 (Ubuntu)

Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE DATABASE wordpress DEFAULT CHARACTER SET utf8 COLLATE utf8_unicode_ci;
Query OK, 1 row affected (0.01 sec)

mysql> GRANT ALL ON wordpress.* TO 'wordpressuser'@'localhost' IDENTIFIED BY 'password';
Query OK, 0 rows affected, 1 warning (0.00 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.00 sec)

mysql> EXIT;
Bye
jay@Jay-Patel:~$
```

```
jay@Jay-Patel:~$ sudo systemctl restart apache2
jay@Jay-Patel:~$ sudo apt-get install php7.2 php7.2-cli php7.2-mysql php7.2-json php7.2-opcache php7.2-mbstring php7.2-xml php7.2-gd php7.2-curl
Reading package lists... Done
Building dependency tree
Reading state information... Done
php7.2 is already the newest version (7.2.24-0ubuntu0.18.04.4).
php7.2-cli is already the newest version (7.2.24-0ubuntu0.18.04.4).
php7.2-curl is already the newest version (7.2.24-0ubuntu0.18.04.4).
php7.2-gd is already the newest version (7.2.24-0ubuntu0.18.04.4).
php7.2-json is already the newest version (7.2.24-0ubuntu0.18.04.4).
php7.2-mysql is already the newest version (7.2.24-0ubuntu0.18.04.4).
php7.2-opcache is already the newest version (7.2.24-0ubuntu0.18.04.4).
php7.2-xml is already the newest version (7.2.24-0ubuntu0.18.04.4).
php7.2-mbstring is already the newest version (7.2.24-0ubuntu0.18.04.4).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
jay@Jay-Patel:~$
```

```

jay@Jay-Patel:~ $ cd /var/www/wordpress/
jay@Jay-Patel:wordpress $ ll
total 216
drwxr-xr-x  5 www-data www-data  4096 Apr  1 01:33 ./
drwxr-xr-x  8 root      root    4096 Apr 16 08:58 ../
-rw-r--r--  1 www-data www-data   405 Feb  6 12:03 index.php
-rw-r--r--  1 www-data www-data 19915 Feb 12 17:24 license.txt
-rw-r--r--  1 www-data www-data  7278 Jan 10 19:35 readme.html
-rw-r--r--  1 www-data www-data  6912 Feb  6 12:03 wp-activate.php
drwxr-xr-x  9 www-data www-data  4096 Apr  1 01:33 wp-admin/
-rw-r--r--  1 www-data www-data   351 Feb  6 12:03 wp-blog-header.php
-rw-r--r--  1 www-data www-data  2275 Feb  6 12:03 wp-comments-post.php
-rw-r--r--  1 www-data www-data  2913 Feb  6 12:03 wp-config-sample.php
drwxr-xr-x  4 www-data www-data  4096 Apr 16 09:22 wp-content/
-rw-r--r--  1 www-data www-data  3940 Feb  6 12:03 wp-cron.php
drwxr-xr-x 21 www-data www-data 12288 Apr  1 01:33 wp-includes/
-rw-r--r--  1 www-data www-data  2496 Feb  6 12:03 wp-links-opml.php
-rw-r--r--  1 www-data www-data  3300 Feb  6 12:03 wp-load.php
-rw-r--r--  1 www-data www-data 47874 Feb 10 09:20 wp-login.php
-rw-r--r--  1 www-data www-data  8501 Feb  6 12:03 wp-mail.php
-rw-r--r--  1 www-data www-data 19396 Feb 11 04:03 wp-settings.php
-rw-r--r--  1 www-data www-data 31111 Feb  6 12:03 wp-signup.php
-rw-r--r--  1 www-data www-data  4755 Feb  6 12:03 wp-trackback.php
-rw-r--r--  1 www-data www-data  3133 Feb  6 12:03 xmlrpc.php
jay@Jay-Patel:wordpress $ █

```

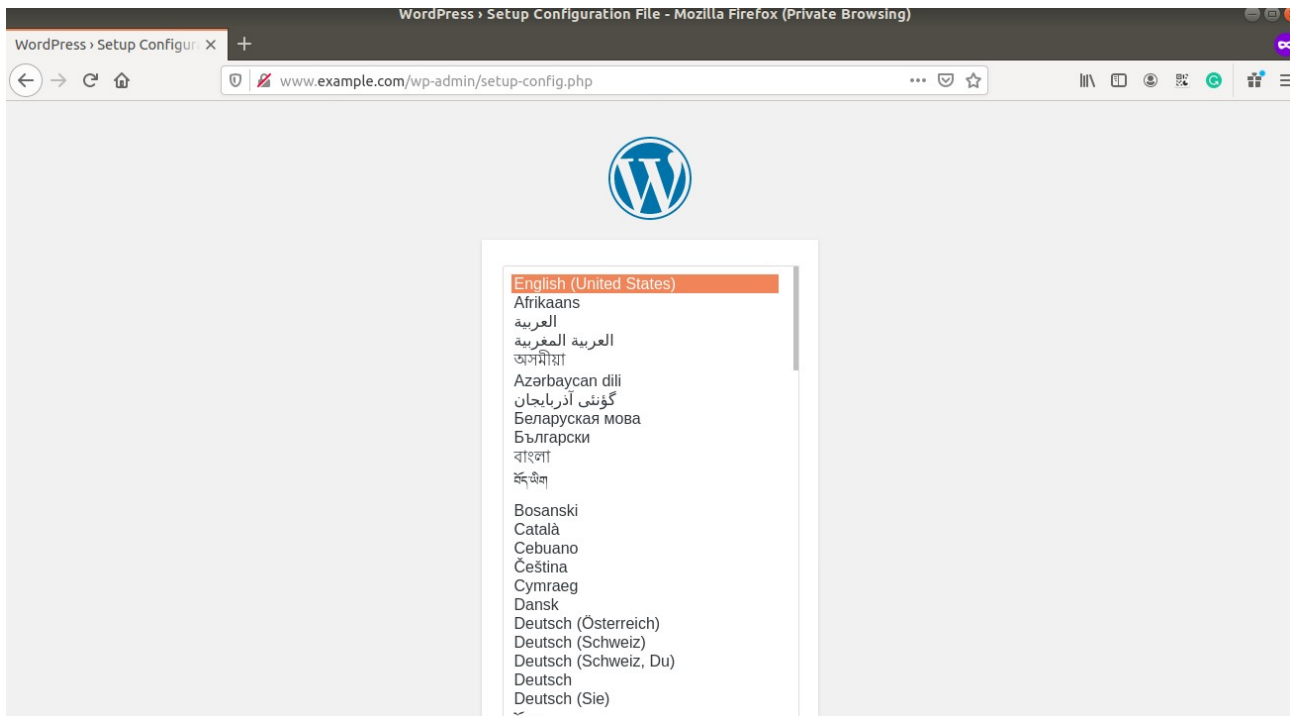
```

jay@Jay-Patel:sites-enabled $ cat wordpress.conf
<VirtualHost *:80>
    ServerName example.com
    ServerAlias www.example.com
    DirectoryIndex index.html index.php
    DocumentRoot /var/www/wordpress/
    <Directory /var/www/wordpress/>
        Options FollowSymLinks
        AllowOverride All
        Require all granted
    </Directory>
    RewriteEngine on
    RewriteOptions inherit

    # Catchall redirect to www.example1.com
    RewriteCond %{HTTP_HOST} !^www.example\.com [NC]
    RewriteCond %{HTTP_HOST} !^$
    RewriteRule ^/(.*) https://www.example.com/$1 [L,R]
</VirtualHost>

jay@Jay-Patel:sites-enabled $ █

```



## 2. Setup Drupal with Nginx and Perform FPM Configuration

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| drupal |
| javatest |
| mysql |
| performance_schema |
| sys |
| wordpress |
| wordpress_db |
+-----+
8 rows in set (0.00 sec)
```

```
mysql> select User from user;
+-----+
| User          |
+-----+
| debian-sys-maint |
| drupaluser      |
| javauser        |
| mysql.session   |
| mysql.sys        |
| root             |
| wordpressuser    |
| wpuser           |
+-----+
8 rows in set (0.00 sec)
```

```
jay@Jay-Patel:www $ cd drupal
jay@Jay-Patel:drupal $ ll
total 272
drwxr-xr-x  8 root root    4096 Apr 15 03:55 ./
drwxr-xr-x  8 root root    4096 Apr 16 08:58 ../
-rw-r--r--  1 root root    262 Aug 16 2017 autoload.php
-rw-r--r--  1 root root   2247 Aug 16 2017 composer.json
-rw-r--r--  1 root root 152480 Aug 16 2017 composer.lock
drwxr-xr-x 12 root root    4096 Aug 16 2017 core/
-rw-r--r--  1 root root   1025 Aug 16 2017 .csslintrc
-rw-r--r--  1 root root    350 Aug 16 2017 .editorconfig
-rw-r--r--  1 root root    206 Aug 16 2017 .eslintignore
-rw-r--r--  1 root root     41 Aug 16 2017 .eslintrc.json
-rw-r--r--  1 root root   1346 Aug 16 2017 example.gitignore
-rw-r--r--  1 root root   3774 Aug 16 2017 .gitattributes
-rw-r--r--  1 root root   7866 Aug 16 2017 .htaccess
-rw-r--r--  1 root root    549 Aug 16 2017 index.php
-rw-r--r--  1 root root  18092 Nov 17 2016 LICENSE.txt
drwxr-xr-x  2 root root    4096 Aug 16 2017 modules/
drwxr-xr-x  2 root root    4096 Aug 16 2017 profiles/
-rw-r--r--  1 root root   5889 Aug 16 2017 README.txt
-rw-r--r--  1 root root   1596 Aug 16 2017 robots.txt
drwxr-xr-x  3 root root    4096 Aug 16 2017 sites/
drwxr-xr-x  2 root root    4096 Aug 16 2017 themes/
-rw-r--r--  1 root root    848 Aug 16 2017 update.php
drwxr-xr-x 18 root root    4096 Aug 16 2017 vendor/
-rw-r--r--  1 root root   4555 Aug 16 2017 web.config
jay@Jay-Patel:drupal $
```

```
jay@Jay-Patel:sites-enabled $ cat drupaljay
server {
    listen 127.0.0.1:80;

    root /var/www/drupal;

    index index.php index.html index.htm;
    server_name drupaljay.com www.drupaljay.com;

    location / {
        try_files $uri /index.php?$query_string;
    }

    location @rewrite {
        rewrite ^/(.*)$ /index.php?q=$1;
    }

    location ~ [^/]\.php(/|$) {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/var/run/php/php7.2-fpm.sock;
    }

    location ~ ^/sites/*/files/styles/ {
        try_files $uri @rewrite;
    }

    location ~ ^(/[a-z\-]+)?/system/files/ {
        try_files $uri /index.php?$query_string;
    }
}
jay@Jay-Patel:sites-enabled $
```

