Install Laravel on Ubuntu 18.04

First install and setup Apache, PHP (> or = 7.3 or 8), Mysql/Mariadb. PHP extension 'mbstring' should be enabled on the server.

Then install composer:

curl -sS https://getcomposer.org/installer | php mv composer.phar /usr/local/bin/composer chmod +x /usr/local/bin/composer

Now we can install Laravel:

cd /var/www git clone https://github.com/laravel/laravel.git cd laravel

Now we can install dependency packages of laravel using the command 'composer install' Important Note: Try to avoid running the install command as root user. For more details read: https://getcomposer.org/root

I am running this command as sudo user 'ubuntu'.

composer install

You may get into some 'memory' issues while running this command.

mmap() failed: [12] Cannot allocate memory

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PHP Fatal error: Out of memory (allocated 186654720) (tried to allocate 4096 bytes) in phar:///usr/local/bin/composer/src/Composer/DependencyResolver/Solver.php on line 201

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Try running the below command as a workaround:

php -d memory_limit=-1 /usr/local/bin/composer install

If the issue persists, your RAM is exhausted.

Try creating a swap file:

https://linuxize.com/post/how-to-add-swap-space-on-ubuntu-18-04

```
thentoprince; Var/mon/laravels php of memory. Units-: /war/local/bin/composer install
Cannot create cache directory /home/bubutu/cache/composer/files/, or directory to not writable. Proceeding without cache
Cannot create cache directory /home/bubutu/cache/composer/files/, or directory to not writable. Proceeding without cache
Cannot create cache directory /home/bubutu/cache/composer/files/, or directory to not writable. Proceeding without cache
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Cannot create cache directory /home/bubutu/cache/composer/files/, or directory /home/bubutu/cache
Cannot create cache directory /home/bubutu/cache/cache
Ladding composer repositories with package information
Ladding composer repositories (2.0.3)
Locking directories/ladding/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/cache/
```

After successful installation of dependencies, give the proper permissions to the file:

chown -R www-data:www-data /var/www/laravel

Set 644 on files:

find /var/www/laravel/ -type f -exec chmod 644 {} \;

Set 755 on directories:

find /var/www/laravel/ -type d -exec chmod 755 {} \;

Give full permission on storage directory: chmod -R 777 /var/www/laravel/storage

Setup Encryption Key:

mv .env.example .env

Now generate base64 random number encryption key, using the below command: php artisan key:generate

```
root@prince:/var/www/laravel# php artisan key:generate
Application key set successfully.
root@prince:/var/www/laravel#
```

Edit the .env configuration file and update the APP_URL:

```
APP_NAME=Laravel
APP_ENV=local
APP_KEY=base64:ZmPIUjh0VefE7gVD41DjuEJWSv6Q5Wz52tWmqV0CpuY=
APP_DEBUG=true
APP_URL=http://lara.spotfixcrew.com
```

Create Database for Laravel:

```
CREATE DATABASE lara;
GRANT ALL ON lara.* to 'lara'@'localhost' IDENTIFIED BY 'passwd';
FLUSH PRIVILEGES;
```

Again edit the .env configuration file and update the db details:

```
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=lara
DB_USERNAME=lara
DB_PASSWORD=passwd
```

Apache Virtualhost:

Disable the default virtualhost:

vim /etc/apache2/sites-enabled/lara.conf

<VirtualHost *:80>

ServerName lara.spotfixcrew.com
DocumentRoot /var/www/laravel/public

<Directory /var/www/laravel>
 AllowOverride All
</Directory>

ErrorLog \${APACHE_LOG_DIR}/error.log
CustomLog \${APACHE_LOG_DIR}/access.log combined

</VirtualHost>

Restart Apache:

Systemctl restart apache2

That's it! Now we can access the Laravel installation from browser:

