

Development Guide



JobsAustralia.tech

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1. Development Guide.

This document is a guide for configuring a development environment for *JobsAustralia.tech* in Linux. This guide is specifically written for versions of Ubuntu equal to or above 16.04 LTS.

The guide assumes Ubuntu is installed, both root and a non-root user is configured, and an Internet connection is available.

1. Update and fully upgrade Ubuntu.

```
sudo apt update
sudo apt full-upgrade
sudo reboot
```

2. Install Apache.

```
sudo apt install apache2
sudo a2enmod headers
sudo a2enmod ssl
```

3. Install MySQL server.

```
sudo apt install mysql-server
```

4. Create a MySQL password for the root user, restrict root access to only from localhost, remove anonymous user accounts, and remove the test database.

```
mysql_secure_installation
```

5. Create the database for Laravel.

```
mysql -u root -p
create database laravel;
exit
```

6. Install PHP.

```
sudo apt install php7.0
```

5. Install Laravel dependencies.

```
sudo apt install php-mcrypt php-gd php-mbstring php-xml php-zip  
php7.0-mysql zip unzip
```

6. Install Composer.

```
sudo curl -sS https://getcomposer.org/installer | php  
sudo mv composer.phar /usr/local/bin/composer  
sudo chmod 755 /usr/local/bin/composer
```

7. Configure an Apache virtual host for JobsAustralia.tech Job Seekers.

```
cd /etc/apache2/sites-available/  
sudo nano jobsaustralia.dev
```

Paste the following

```
<VirtualHost *:80>  
    ServerName jobsaustralia.dev  
  
    ServerAdmin admin@jobsaustralia.dev  
    DocumentRoot /var/www/jobsaustralia.tech/public  
  
    <Directory /var/www/jobsaustralia.tech/>  
        Options FollowSymLinks  
        AllowOverride All  
        Order allow,deny  
        allow from all  
    </Directory>  
  
    ErrorLog ${APACHE_LOG_DIR}/error.log  
    CustomLog ${APACHE_LOG_DIR}/access.log combined  
</VirtualHost>
```

8. Configure an Apache virtual host for JobsAustralia.tech Employers.

```
sudo nano employ.jobsaustralia.dev
```

Paste the following

```
<VirtualHost *:80>
    ServerName employ.jobsaustralia.dev

    ServerAdmin admin@employ.jobsaustralia.dev
    DocumentRoot /var/www/employ.jobsaustralia.tech/public

    <Directory /var/www/employ.jobsaustralia.tech/>
        Options FollowSymLinks
        AllowOverride All
        Order allow,deny
        allow from all
    </Directory>

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

9. Install Git.

```
sudo apt install git
```

Git can further be configured to individual preference, for actual usage.

```
git config --global core.fileMode false
```

10. Take ownership of Apache's document root directory.

To determine your username, run *whoami*.

```
sudo chown -R username: /var/www/
```

11. Clone the JobsAustralia.tech Job Seekers and Employers repositories to their respective document roots.

```
cd /var/www/  
git clone https://github.com/jobsaustralia/jobsaustralia.tech.git  
git clone https://github.com/jobsaustralia/employ.jobsaustralia.tech.git
```

12. Restart Apache.

```
sudo systemctl reload apache2
```

13. Install JobsAustralia.tech with Composer.

```
cd jobsaustralia.tech/  
composer install  
cd employ.jobsaustralia.tech  
composer install
```

12. Configure your environment.

```
cd ..  
cd jobsaustralia.tech  
mv env.example .env  
nano .env
```

Alter the following lines replacing *secret* with the root password you configured for MySQL.

```
DB_DATABASE=laravel  
DB_USERNAME=root  
DB_PASSWORD=secret
```

Repeat the process for the other repository.

```
cd ..  
cd employ.jobsaustralia.tech  
mv env.example .env  
nano .env
```

13. Set correct permissions on the storage directory.

```
chmod -R 777 storage/
```

14. Migrate the database (creating the required tables), and optionally seed.

```
cd ..  
cd jobsaustralia.tech
```

Remove --seed to avoid populating the database with test data.

```
php artisan migrate -seed
```

15. Create a symbolic link for resume storage.

```
ln -s /var/www/jobsaustralia.tech/storage/app/public/resumes/  
/var/www/employ.jobsaustralia.tech/storage/app/public/
```

16. Add jobsaustralia.tech and employ.jobsaustralia.tech to the hosts file.

```
sudo nano /etc/hosts
```

Add the following.

```
127.0.0.1 jobsaustralia.dev  
127.0.0.1 employ.jobsaustralia.dev
```

JobsAustralia.tech Job Seekers should now be available via <http://jobsaustralia.dev> in a browser, and *JobsAustralia.tech Employers* should be available via <http://employ.jobsaustralia.dev>.

Troubleshooting

If a general error is encountered with Composer or Artisan.

```
php artisan cache:clear  
composer dump-autoload
```

If Composer or Artisan complains about a missing application key.

```
php artisan key:generate
```