

Installation Guide

This document describes the installation steps needed to set up a development environment for the storyweaver application.

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Following steps detail out the instructions for installing Storyweaver application and running a local server.

Requirements

You need to have an 8GB system and Ubuntu 14.04.

Install RVM

```
$ gpg --keyserver hkp://keys.gnupg.net --recv-keys  
409B6B1796C275462A1703113804BB82D39DC0E3 7D2BAF1CF37B13E2069D6956105BD0E739499BDB
```

```
$ \curl -sSL https://get.rvm.io | bash -s stable --path  
<custom_path_for_installation>
```

Install Ruby 2.1.4

```
$ rvm install 2.1.4  
$ rvm use 2.1.4 --default
```

Install PostgreSQL

```
$ sudo apt-get install postgresql postgresql-contrib
```

PostgreSQL configuration

Create *spp_user* and grant access to it,

```

$ sudo -i
$ su - postgres
$ psql
psql (9.3.17)
Type "help" for help.
postgres=# CREATE ROLE spp_user superuser;
postgres=# ALTER ROLE spp_user WITH LOGIN;
postgres=# GRANT ALL PRIVILEGES ON ALL FUNCTIONS IN SCHEMA public TO spp_user;
postgres=# GRANT ALL ON ALL FUNCTIONS IN SCHEMA public TO spp_user;
postgres=# GRANT ALL ON ALL SEQUENCES IN SCHEMA public TO spp_user;
postgres=# GRANT ALL ON ALL TABLES IN SCHEMA public TO spp_user;
postgres=# \q

```

For password less login to database, Open the below file,

```
$ sudo vim /etc/postgresql/9.3/main/pg_hba.conf
```

(or)

```
$ sudo vim /etc/postgresql/<version>/main/pg_hba.conf
```

Add the following line (in green) just before below line in the pg_hba.conf file

```

# "local" is for Unix domain socket connections only
+ local    all             spp_user          trust
  local    all             all                peer

```

Restart postgres,

```
$ sudo service postgresql restart
```

Install imagemagick

```
$ sudo apt-get install imagemagick
```

Install wkhtmltopdf

```
$ sudo add-apt-repository ppa:ecometrica/servers  
$ sudo apt-get install wkhtmltopdf  
$ sudo ln /usr/bin/wkhtmltopdf /usr/local/bin/wkhtmltopdf
```

Install Java 8

This is required for Elasticsearch installation

```
$ sudo add-apt-repository ppa:webupd8team/java  
$ sudo apt-get update  
$ sudo apt-get install oracle-java8-installer
```

Install elasticsearch version 5.2.0 or above

- <https://www.elastic.co/downloads/elasticsearch>
- Download the Debian Package file
- Go to the download directory and run,

```
$ sudo dpkg -i elasticsearch-<version>.deb
```

Rails Install Steps

Clone repo

```
$ git clone https://github.com/PrathamBooks/spp
```

Install bundler

```
$ sudo apt-get install bundler  
$ gem install bundler
```

Rest of the following commands needs to to be executed in project directory spp.

Install gems

```
$ bundle install
```

Create db

For developers

```
$ bundle exec rake db:create
$ bundle exec rake db:migrate
$ bundle exec rake db:seed
$ bundle exec rake db:seed:development:users
```

For non-developers

```
$ bundle exec rake db:create
```

Restore the database from a database dump provided (currently database dump is not public) with the following command.

```
$ psql spp < {Replace with database dump file}
```

Index search engine

```
$ bundle exec rake searchkick:reindex:all
```

rake jobs

```
$ bundle exec rake jobs:work
```

Start server

```
$ rails s
```

or

```
$ puma
```

Point your browser to <http://localhost:3000>

Known issues?

While installing gems via 'bundle install'

- Gem pg installation error while bundling, Can't find the 'libpq-fe.h' header
Solution:

```
$ sudo apt-get install libpq-dev
```

- Can't install RMagick 2.13.4. Can't find MagickWand.h, Solution:

```
$ sudo apt-get install libmagickwand-dev
```

- *You must install libcouchbase >= 2.4.0

```
$ wget
```

```
http://packages.couchbase.com/releases/couchbase-release/couchbase-release-1.0-3-amd64.deb
```

```
$ sudo dpkg -i couchbase-release-1.0-3-amd64.deb
```

```
$ sudo apt-key adv --keyserver keyserver.ubuntu.com --recv-keys 6EF1EAC479CF7903
```

```
$ sudo apt-get update
```

```
$ sudo apt-get install libcouchbase-dev libcouchbase2-bin build-essential
```

Installing React environment:

Install nodejs and npm

```
$ curl -sL https://deb.nodesource.com/setup_8.x | sudo -E bash -
```

```
$ sudo apt-get install nodejs
```

Clone the Repo sw-js

```
$ git clone https://github.com/PrathamBooks/sw-js.git
```

Install yarn

Move to the sw-js directory

```
$ npm install -g yarn
```

Integrate React with Rails

```
$ REACT_PATH=/scratch/sw-js RAILS_PATH=/scratch/spp bash /scratch/spp/lib/scripts/integrate_rails_with_react.sh
```

Update the above paths with your custom paths.

Move to the Rails directory(spp) and run 'rails server -b 0.0.0.0'.