

Setting Up Development Environment on macOS

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This guide assumes that `homebrew` is installed on the computer. If it isn't, then run the following command:

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"
```

The script explains what it will do and will await confirmation before doing it.

Install python and pip

```
brew install python
```

Install and run rabbitmq server

```
brew install rabbitmq
```

`homebrew` should automatically start the `rabbitmq` server. However if it doesn't then the server can be manually started by running `brew services start rabbitmq`. This commands `launchd` to start `rabbitmq` now, while also restarting it at login. If this is undesirable, then the server can also be started by running `rabbitmq-server`, which will stop the server when the session is closed.

Install and run postgresSQL

To install execute the following command: `brew install postgresql` and to have `launchd` start the service now and restart it at login execute: `brew services start postgresql`

It is now possible to install the SAEF Project with the default `postgres` user in the Postgresql server. If this is desired, then skip the next step and go directly to the `Install git` section.

Creating a custom postgres user

Execute the following commands, where `<username>`, `<password>`, and `<django db>` is replaced with the actual username, password, and database name.

```
bash -c "psql postgres -c \"CREATE USER <username> WITH PASSWORD '<password>';\""
bash -c "psql postgres -c \"ALTER USER <username> CREATEDB;\""
bash -c "psql postgres -c \"ALTER USER test WITH SUPERUSER;\""
bash -c "createdb -O <username> <django db>"
```

The username and password will also need to be added to the configuration in the Django settings for the database.

Install git

```
brew install git
```

Install and activate python virtual environment

To install `virtualenv` run the following command: `pip install virtualenv`. When `virtualenv` has finished installing, it is necessary to create and activate a new virtual environment. Create the environment `virtualenv`

saefdev and activate it `source saefdev/bin/activate`

Download ODBC Driver for SQL Server

<https://docs.microsoft.com/en-us/sql/connect/odbc/linux-mac/install-microsoft-odbc-driver-sql-server-macos?view=sql-server-ver15> 