

Postgres installation instructions

1. Install Postgres
 - a. Windows: <http://www.postgresql.org/download/>
 - i. Add the bin directory to your PATH:
 1. e.g. C:\Program Files\PostgreSQL\9.6\bin
 - ii. Add a password for the postgres user during installation
 - b. Mac: We recommend installing through homebrew or MacPorts depending on which one you use. If you have trouble with these, you can use the online installer.
 - c. Linux: Use your distribution's package manager
2. Install psycopg2 (Postgres python adapter).
 - a. Mac/Linux: `pip install psycopg2`
 - b. Windows (only if you don't have pip):
 - i. Download the installer from here:
<http://www.stickpeople.com/projects/python/win-psycopg/>
 1. Make sure x86 vs x64 corresponds to installed python
 - ii. `easy_install <downloaded file>`
3. Run postgres
 - a. Mac/Linux:
 - i. Select a location for your database, e.g. `/usr/local/var/postgres`
 - ii. `initdb /usr/local/var/postgres -E utf8`
 - iii. `postgres -D /usr/local/var/postgres`
 - b. Windows:
 - i. Should already be running after the installation
4. Create a database and a user
 - a. Mac/Linux:
 - i. `createdb grumblr # Create database called grumblr`
 - ii. `createuser -P webapps # Create user webapps`
 - b. Windows:
 - i. `createdb -U postgres grumblr`
 - ii. `createuser -U postgres -P webapps`
5. Grant privileges to the user:
 - a. Mac/Linux:
 - i. `psql grumblr # open the Postgres interpreter`
 - ii. `GRANT ALL PRIVILEGES ON DATABASE grumblr TO webapps;`
 - b. Windows:
 - i. `psql -U postgres grumblr`
 - ii. `GRANT ALL PRIVILEGES ON DATABASE grumblr TO webapps;`
6. Configure the Django application to use your postgres database
7. Initialize the database
 - a. `python manage.py makemigrations`

- b. `python manage.py migrate`
- 8. Access the shell
 - a. `psql -U webapps grumblr` # open the Postgres interpreter
- 9. Useful commands
 - a. `\list` - List all databases
 - b. `\dt` - List all tables in current databases