AWS Setup Runbook

Prerequisites

Assume you have accessed to the AWS server

Install Git

sudo yum install git

You can check the completion of the installation by

git --version

Install Python 3.4

sudo yum install python34

You can check the completion of the installation by

python3 --version

Get latest PIP

cd

curl -O https://bootstrap.pypa.io/get-pip.py

sudo python3 get-pip.py

You can check the completion of the installation by

pip --version

Install the Django

sudo /usr/local/bin/pip3 install Django

Install the Django Rest Framework

sudo /usr/local/bin/pip3 install djangorestframework

Clone the latest code (Only needed for the first time, you do Git pull afterwards)

git clone https://github.com/ITCadre-Projects/fda.git

Start the server on port 80

sudo screen python3 manage.py runserver 0.0.0.0:80

control- a

d

and close the terminal

Test the application

Open your browser, and go the url :

[http://ec2-54-211-54-147.compute-1.amazonaws.com/spike/](http://ec2-54-211-54-147.compute-1.amazonaws.com/spike/search/)

Twitter Streaming

Install the tweepy library

sudo /usr/local/bin/pip3 install tweepy

Set up the twitter Oauth keys and secretes

Login <https://dev.twitter.com/oauth/tools/> using itcadre twitter account

Create an application for fda

Obtain access token, access token secret, consumer key, and consumer key secret.

Update those values in TwitterStreamming.py

Installing PostgreSQL

You might try:

yum info postgresql9-server.x86\_64 | grep Version

yum install postgresql9-server

But I have built it from source with the steps as following

sudo yum install gcc

sudo yum install perl-ExtUtils-Embed -y

yum install libxml2-devel libxslt-devel

wget <http://ftp.postgresql.org/pub/source/v9.2.1/postgresql-9.2.1.tar.gz>

cd postgresql-9.2.1

tar xzvf postgresql-9.2.1.tar.gz

sudo yum install zlib-devel.x86\_64 readline-devel.x86\_64 python27-

devel.x86\_64 python27.x86\_64 perl-ExtUtils-MakeMaker.x86\_64 perlExtUtils-CBuilder.x86\_64 perl-ExtUtils-Embed.x86\_64

./configure --prefix=/opt/pg --with-libxml --with-libxslt --with-perl --with-python

make ; sudo make install

mkdir data

sudo useradd postgres ;

sudo chown -R postgres: data ;

sudo chown -R postgres: /opt/pg

sudo passwd postgres (I have set the password for postgres user as “itcadre123”)

su postgres

/opt/pg/bin/initdb -D /var/lib/postgres/data

/opt/pg/bin/pg\_ctl -D /var/lib/postgres/data -l logfile start

Now setup the tables in the Postgres

su postgres

enter password “itcadre123”

postgres=# create database spike;

postgres-# create user spikeuser with password 'password';

postgres-# alter role spikeuser set client\_encoding to 'utf8';

postgres-# alter role spikeuser set timezone to 'utc';

in the setting.py

DATABASES = {

'default': {

'ENGINE': 'django.db.backends.postgresql\_psycopg2',

'NAME': 'spike',

'USER': 'spikeuser',

'PASSWORD': 'password',

'HOST' :'localhost',

'PORT' :'5432',

}

}

to set up on the Django side

sudo -i

export PATH=$PATH:"/opt/pg/bin"

sudo yum install python34-devel.x86\_64

sudo yum install postgresql94-libs.x86\_64

sudo /usr/local/bin/pip3 install psycopg2

python3 manage.py makemigrations

python3 manage.py migrate