**Bottle Service  
Runbook**

**Setup EC2**

<https://dev.to/awscommunity-asean/create-and-deploy-python-django-application-in-aws-ec2-instance-4hbm>

*Add port 8000 to security group:*

Go to EC2 -> Security Group

Edit inbound rules

Add Custom TCP – 8000 – 0.0.0.0/0

**Clone Repo:**

sudo apt update

sudo apt install git

ssh-keygen -t rsa -b 4096 -C "marcusjwaldman@gmail.com"

eval "$(ssh-agent -s)"

49 ssh-add ~/.ssh/id\_rsa

less ~/.ssh/id\_rsa.pub -> copy

ssh -T git@github.com

git clone [git@github.com:marcusjwaldman/bottle-service.git](mailto:git@github.com:marcusjwaldman/bottle-service.git)

**Set Environmental Variables:**

Generates a new Django secret key  
>>> import secrets

>>>

>>> # Generate a 50-character random string for SECRET\_KEY

>>> SECRET\_KEY = ''.join(secrets.choice('abcdefghijklmnopqrstuvwxyz0123456789!@#$%^&\*(-\_=+)') for i in range(50))

>>> print(SECRET\_KEY)

Generated Key:

xz#24+mqi=$fkb#490$!w5((n^$l$4grmcexz\_qr^b69=4zvv\_

create or edit file ~/.bash\_profile

export DJANGO\_SETTINGS\_MODULE=bottle\_service\_app.settings\_aws

export DJANGO\_SECRET\_KEY=xz#24+mqi=$fkb#490$!w5((n^$l$4grmcexz\_qr^b69=4zvv\_

export DJANGO\_ALLOWED\_HOSTS="\*"

After modifying bash\_profile:  
source ~/.bash\_profile

Versions:

Python 3.10.12

Django==4.2.7

**Run service – Django**

python3 manage.py runserver 0:8000

or in background

nohup python3 manage.py runserver 0:8000 >> ../bottle\_service.log &

**Cloud Service**

<http://ec2-54-146-192-218.compute-1.amazonaws.com:8000/>

**Database**

MariaDB 10.6

Connect from EC2 service:  
mysql -u root -p -h bottle-service-db.cf4q0skejsur.us-east-1.rds.amazonaws.com

create database bottle\_service\_db;

grant all privileges on bottle\_service\_db.\* TO 'bottle\_service\_account'@'localhost' identified by 'PWD';

flush privileges;

To run tests:  
GRANT ALL PRIVILEGES ON test\_BottleServiceMariaDB.\* TO 'bottle\_service\_account'@'%';

Change localhost to EC2 host.

Run Django migration

To pip install mysqlclient – need to first install dependencies on ubuntu service:  
sudo apt-get install mysql-client

sudo apt-get install libmysqlclient-dev

sudo apt-get install libssl-dev

sudo apt-get install python3-dev default-libmysqlclient-dev build-essential

sudo apt-get install python3-dev default-libmysqlclient-dev build-essential pkg-config