Flask and AWS

Flask is awesome. AWS is awesome. Getting everything up and running isn't always.

Getting a Flask app up and running on AWS

Before you start , I'm assuming you're running an Ubuntu AWS instance specifically. A few things will need to change if you're not but the general workflow should be the same

Assuming you have a project structure like so:

```
.
├── config.py
├── run.py
├── tmp/
└── project_name
    ├── config.py
    ├── data/
    ├── __init__.py
    ├── static
    |   ├── css/
    |   ├── fonts/
    |   └── js/
    ├── templates/
    └── views.py
```

Ensure run.py and project_name/**init**.py are good to go

run.py

```python
#!/usr/bin/env python
from project_name import app


if __name__ == '__main__':
  app.run(debug = True)
```

project_name/__init__.py

```python
from flask import Flask


app = Flask(__name__)



from project_name import views
```

Install dependencies

```
sudo apt-get install gunicorn python-flask nginx
```

Ensure your app will start with gunicorn

```
cd /home/ubuntu/project_name
gunicorn run:app
```

This should start a server , if it fails for any reason fix it.

Create an upstart script for gunicorn to execute this app:

Create the file and open for editing:

```
sudo nano /etc/init/project_name.conf
```

Add this text in: edit project_name and the directory behind chdir :

```
description "Gunicorn application server running project_name"

start on runlevel [2345]
stop on runlevel [!2345]

respawn
setuid ubuntu
setgid www-data


chdir /home/ubuntu/project_name
exec gunicorn    --bind unix:project_name.sock -m 007 run:app
```

Close out and save.

Start your init script.

```
sudo start project_name
```

Configure NGINX

Go to your AWS console and get the public IP for your instance. Ensure that a .sock file exists at /home/ubuntu/project_name/project_name.sock

Open a new file edit server_domain_orIP to reflect your instance's public IP.

```
sudo nano /etc/nginx/sites-available/project_name
```

This goes into that file:

```
server {
    listen 80;
    server_name server_domain_or_IP;


        location / {
        include proxy_params;
        proxy_pass http://unix:/home/ubuntu/project_name/project_name.soc
    }
}
```

Activate your website and ensure everything looks ok:

```
sudo ln -s /etc/nginx/sites-available/myproject /etc/nginx/sites-enabled
sudo nginx -t
sudo service nginx restart
```

You should be able to visit your public IP and see the site running now.

Troubleshooting

Nginx logs to : /var/log/nginx/error.log

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