

### 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

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

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

project\_name/\_\_init\_\_.py

```
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
    }
}
```

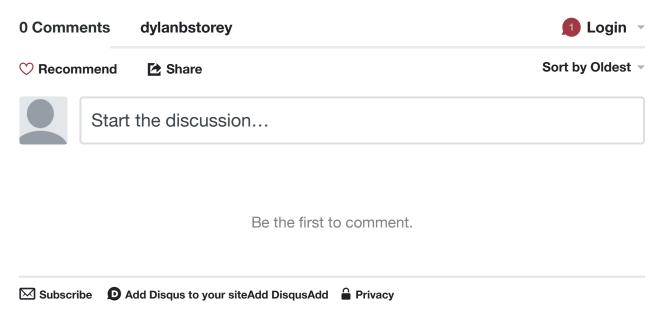
Activate your website and ensure everything looks ok:

```
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



The author is probably employed by someone. You shouldn't take their views as their employers. Last Build:  $2017-03-28\ 17:21:20+0000$