

Setup Flask application to run as a Linux service.

Step 1

Create the Flask app and i mentioned the sample code below.

```
#!/usr/bin/python
from flask import Flask, request
app = Flask(__name__)
@app.route('/', methods=['GET'])
def index():
    return "Hai Manivannan this is ubuntu service with flask app"if __name__ ==
'__main__':
    app.run(host="0.0.0.0", port=9006)
```

Step 2

We have to write the following service configuration in **/etc/init/flask.conf**:

```
sudo vi /etc/init/flask.conf

description "flask"
start on stopped rc RUNLEVEL=[2345]
respawn
exec python /home/manivannan/server.py
```

Step 3

Initialize the service using the command below:

```
sudo service flask start
```

If you receive any error, you may have to create an additional file:
/lib/systemd/system/flask.service

```
sudo vi /lib/systemd/system/flask.service
```

Note: User=manivannan is the username. File content is shown below.

```
[Unit]
Description=Flask web server

[Install]
WantedBy=multi-user.target

[Service]
User=manivannan
PermissionsStartOnly=true
ExecStart=/home/manivannan/server.py
TimeoutSec=600
Restart=on-failure
RuntimeDirectoryMode=755
```

Step 4

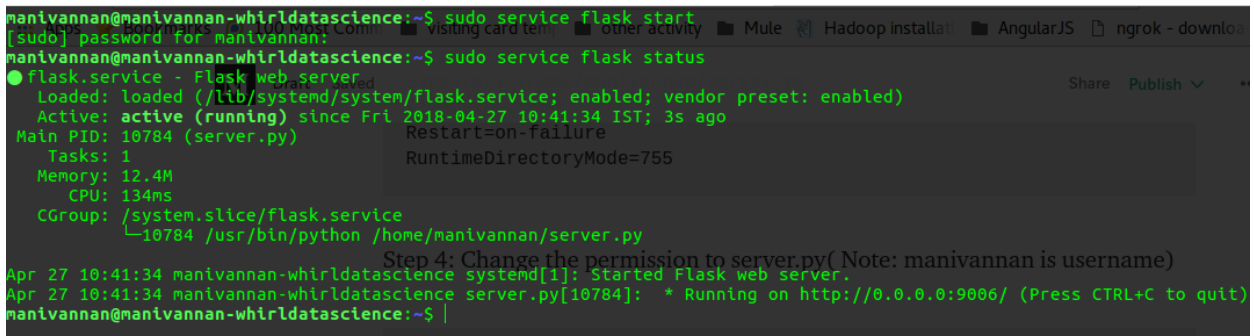
Change the permission to server.py (Note: manivannan is username)

```
chown manivannan server.py
chmod +x server.py
```

Step 5

Run the service and check the status:

```
sudo service flask start
sudo service flask status
```



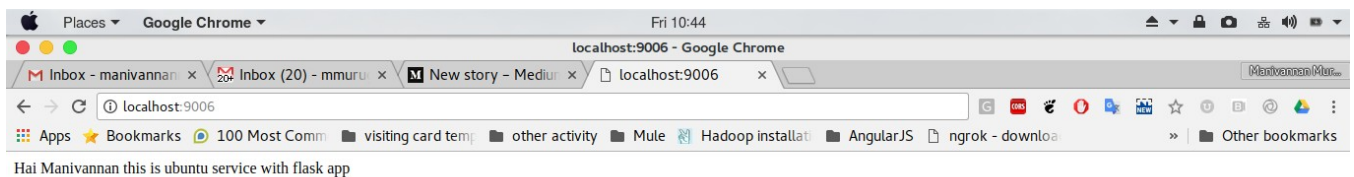
```
manivannan@manivannan-whirlidatascience:~$ sudo service flask start
[sudo] password for manivannan:
manivannan@manivannan-whirlidatascience:~$ sudo service flask status
● flask.service - Flask web server
   Loaded: loaded (/lib/systemd/system/flask.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2018-04-27 10:41:34 IST; 3s ago
     Main PID: 10784 (server.py)
       Tasks: 1
      Memory: 12.4M
         CPU: 134ms
    CGroup: /system.slice/flask.service
            └─10784 /usr/bin/python /home/manivannan/server.py

Step 4: Change the permission to server.py( Note: manivannan is username)
Apr 27 10:41:34 manivannan-whirlidatascience systemd[1]: Started Flask web server.
Apr 27 10:41:34 manivannan-whirlidatascience server.py[10784]: * Running on http://0.0.0.0:9006/ (Press CTRL+C to quit)
manivannan@manivannan-whirlidatascience:~$
```

<http://0.0.0.0:9006> is the service ip and port.

Final Step

Check the service running or not. Please hit the localhost:9006 on your browser.



source: https://medium.com/@manivannan_data/how-to-deploy-the-flask-app-as-ubuntu-service-399c0adf3606