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Deploy Python Flask App on Heroku

Last Updated : 01 Nov, 2023

Flask is a web application framework written in Python. Flask is based on the Werkzeug WSGI toolkit and Jinja2 template engine. Both are Pocco projects. This article revolves around **how to deploy a flask app on Heroku**. To demonstrate this, we are first going to create a sample application for a better understanding of the process.

Prerequisites

- Python
- pip
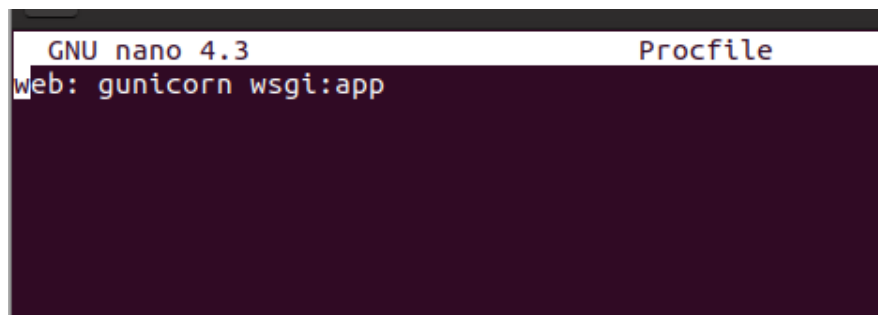- Heroku CLI
- Git

Deploying Flask App on Heroku

Let's create a simple flask application first and then it can be deployed to heroku. Create a folder named **"eflask"** and open the command line and cd inside the **"eflask"** directory. Follow the following steps to create the sample application for this tutorial.

STEP 1 : Create a virtual environment with pipenv and install **Flask** and **Gunicorn** .

```
$ pipenv install flask gunicorn
```

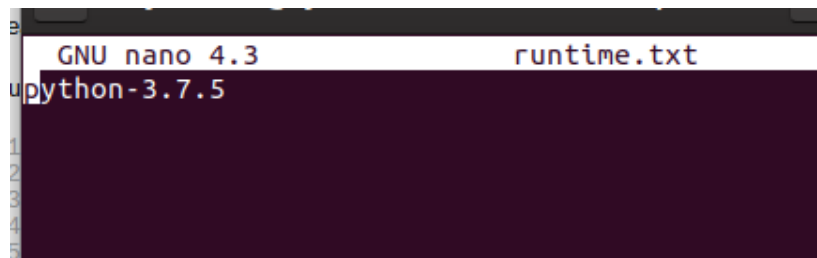**STEP 2 :** Create a **"Procfile"** and write the following code.

```
$ touch Procfile
```

```
  GNU nano 4.3                              Procfile
web: gunicorn wsgi:app
```

STEP 3 : Create **"runtime.txt"** and write the following code.

```
$ touch runtime.txt
```

```
  GNU nano 4.3                              runtime.txt
python-3.7.5
```

STEP 4 : Create a folder named **"app"** and enter the folder.

```
$ mkdir app
$ cd app
```

STEP 5 : Create a python file, **"main.py"** and enter the sample code.

```
touch main.py
```

Python3

```python
from flask import Flask

app = Flask(__name__)

@app.route("/")
def home_view():
```

```
return "<h1>Welcome to Geeks for Geeks</h1>"
```

STEP 6 : Get back to the previous directory "eflask".Create a file **"wsgi.py"** and insert the following code.

```
$ cd ../
$ touch wsgi.py
```

Python3

```python
from app.main import app

if __name__ == "__main__":
        app.run()
```

STEP 7 : Run the virtual environment.

```
$ pipenv shell
```

STEP 8 : Initialize an empty repo, add the files in the repo and commit all the changes.

```
$ git init
$ git add .
$ git commit -m "Initial Commit"
```

STEP 9 : Login to heroku CLI using

```
heroku login
```

Now, Create a unique name for your Web app.

```
$ heroku create eflask-app
```

```
create mode 100044 wsgi.py
(eflask--Z9sD7Cc) ayushman@ayushman-Lenovo-G50-80:~/Documents/PROJECT_TEST/eflask$ heroku create eflask-app
Creating ⬤ eflask-app... done
https://eflask-app.herokuapp.com/ | https://git.heroku.com/eflask-app.git
```

STEP 10 : Push your code from local to the heroku remote.

```
$ git push heroku master
```

```
(eflask--Z9sD7Cc) ayushman@ayushman-Lenovo-G50-80:~/Documents/PROJECT_TEST/eflask$ git push heroku master
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (9/9), 2.73 KiB | 932.00 KiB/s, done.
Total 9 (delta 0), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Python app detected
remote:  !     Python has released a security update! Please consider upgrading to python-3.7.6
remote:        Learn More: https://devcenter.heroku.com/articles/python-runtimes
remote: -----> Installing python-3.7.5
remote: -----> Installing pip
remote: -----> Installing dependencies with Pipenv 2018.5.18…
remote:        Installing dependencies from Pipfile.lock (d977f2)…
remote: -----> Installing SQLite3
remote: Sqlite3 successfully installed.
remote: -----> Discovering process types
remote:        Procfile declares types -> web
remote:
remote: -----> Compressing...
remote:        Done: 60.3M
remote: -----> Launching...
remote:        Released v3
remote:        https://eflask-app.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/eflask-app.git
 * [new branch]      master -> master
```

Finally, web app will be deployed on http://eflask-app.herokuapp.com.

← → C   ⓘ Not secure | eflask-app.herokuapp.com   ☆   🐍 |

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