

Django Application Deployment on Heroku

We need Few Things :

1. Heroku Accounts : <https://signup.heroku.com/>
2. Git Software : <https://git-scm.com/>
3. Heroku CLI : <https://devcenter.heroku.com/articles/heroku-cli#download-and-install>
4. A Github Account : <http://github.com/>

After Installation and creation of accounts open CMD

- Go to our project directory

```
releases      display the releases for an app
reviewapps    disposable apps built on GitHub pull requests
run           run a one-off process inside a Heroku dyno
sessions      OAuth sessions
spaces        manage heroku private spaces
status        status of the Heroku platform
teams         manage teams
update        update the Heroku CLI
webhooks      setup HTTP notifications of app activity

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>heroku login
heroku: Press any key to open up the browser to login or q to exit: _
```

- Create requirements.txt file with the following commands

```
(ourblog) C:\Users\NightKing\ourblog\awesomeblog>heroku login
heroku: Press any key to open up the browser to login or q to exit:
Opening browser to https://cli-auth.heroku.com/auth/browser/4f478186-d243-47dc-bb2b-1a1ed361ee30
Logging in... done
Logged in as thapabikash48@gmail.com

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>pip freeze
Django==2.2.2
pytz==2019.1
sqlparse==0.3.0

(ourblog) C:\Users\NightKing\ourblog\awesomeblog> pip freeze > requirements.txt

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>
```

- Install gunicorn and add that manually in requirements.txt file

```
releases      display the releases for an app
reviewapps    disposable apps built on GitHub pull requests
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(ourblog) C:\Users\NightKing\ourblog\awesomeblog>heroku login
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Opening browser to https://cli-auth.heroku.com/auth/browser/4f478186-d243-47dc-bb2b-1a1ed361ee30
Logging in... done
Logged in as thapabikash40@gmail.com

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>pip freeze
Django==2.2.2
pytz==2019.1
sqlparse==0.3.0

(ourblog) C:\Users\NightKing\ourblog\awesomeblog> pip freeze > requirements.txt

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>pip install gunicorn
Collecting gunicorn
  Using cached https://files.pythonhosted.org/packages/8c/da/b8dd8deb741bff556db53902d4706774c8e1e67265f69528c14c003644e5/gunicorn-19.9.0-py2.py3-none-any.whl
Installing collected packages: gunicorn
```

- In project root directory create a file name **Procfile** and add web gunicorn projectname.wsgi --log-file --

- Allow host in settings.py file

```
ALLOWED_HOSTS = ['*']
```

- Create a github repo and push project into it
- In our project root directory open cmd to create heroku application

Commands:

heroku create

- Upload the files to the url shown as in the screenshot

```
(ourblog) C:\Users\NightKing\ourblog\awesomeblog>heroku create
Creating app... !
! You've reached the limit of 5 apps for unverified accounts. Delete some apps or add a credit card to verify your account.

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>heroku create
Creating app... done, @ mighty-depths-88885
https://mighty-depths-88885.herokuapp.com/ | https://git.heroku.com/mighty-depths-88885.git

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>
```

➤ Disable COLLECTSTATIC

```
(ourblog) C:\Users\NightKing\ourblog\awesomeblog>heroku create
Creating app... !
! You've reached the limit of 5 apps for unverified accounts. Delete some apps or add a credit card to verify your
! account.

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>heroku create
Creating app... done, ☑ mighty-depths-88885
https://mighty-depths-88885.herokuapp.com/ | https://git.heroku.com/mighty-depths-88885.git

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>heroku git:remote -a mighty-depths-88885
set git remote heroku to https://git.heroku.com/mighty-depths-88885.git

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>heroku config:set DISABLE_COLLECTSTATIC=1
Setting DISABLE_COLLECTSTATIC and restarting ☑ mighty-depths-88885... done, ☑
DISABLE_COLLECTSTATIC: 1

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>
```

➤ Push to heroku

```
2019-09-03 11:48:07.445852+00:00 heroku[router]: at=error code=H10 desc="App crashed" method=GET path="/favicon.ico" host=
t=mighty-depths-88885.herokuapp.com request_id=e30b7978-1bbe-49f6-89c5-4c8e7116adee fwd="157.45.75.46" dyno= connect= se
vice= status=500 bytes= protocol=https
^CTerminate batch job (Y/N)?
^C
(ourblog) C:\Users\NightKing\ourblog\awesomeblog>

(ourblog) C:\Users\NightKing\ourblog\awesomeblog>git push heroku master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 312 bytes | 156.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Python app detected
remote: -----> Installing requirements with pip
remote:
remote: -----> Discovering process types
remote: Procfile declares types -> web
remote:
remote: -----> Compressing...
remote: Done: 50.4M
remote: -----> Launching...
remote: Released v7
remote: https://mighty-depths-88885.herokuapp.com/ deployed to Heroku
remote:
```

- Our app is now live
- Install whitenoise if there is breakage in style and repeat the above steps

```
(ourblog) C:\Users\NightKing\ourblog\Scripts>pip install whitenoise
Collecting whitenoise
  Downloading https://files.pythonhosted.org/packages/96/75/92afb2d8912ac19646f67a2c69bb8683e5aab78db3b0791bfd3e7ed022bb
/whitenoise-4.1.3-py2.py3-none-any.whl
Installing collected packages: whitenoise
Successfully installed whitenoise-4.1.3
WARNING: You are using pip version 19.1.1, however version 19.2.3 is available.
You should consider upgrading via the 'python -m pip install --upgrade pip' command.

(ourblog) C:\Users\NightKing\ourblog\Scripts>pip freeze > requirements.txt

(ourblog) C:\Users\NightKing\ourblog\Scripts>pip freeze
Django==2.2.2
gunicorn==19.9.0
pytz==2019.1
sqlparse==0.3.0
whitenoise==4.1.3
```