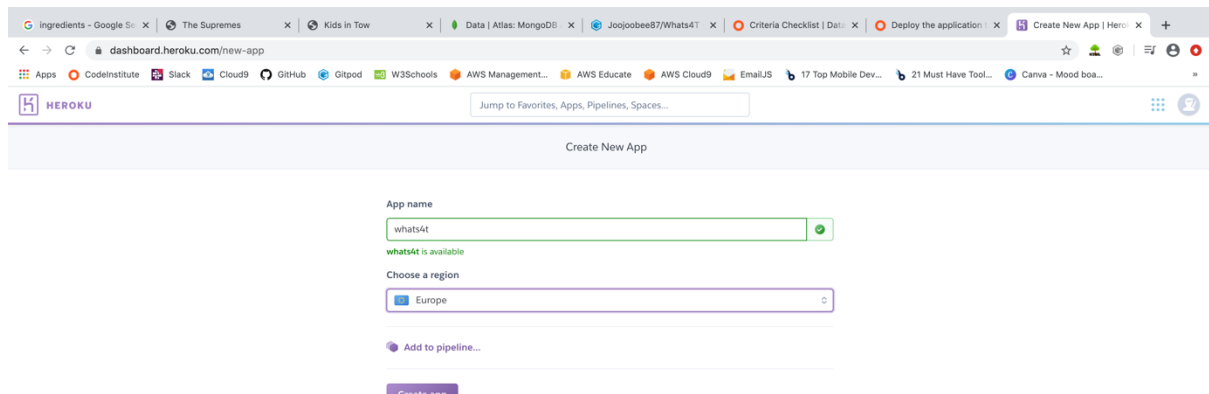
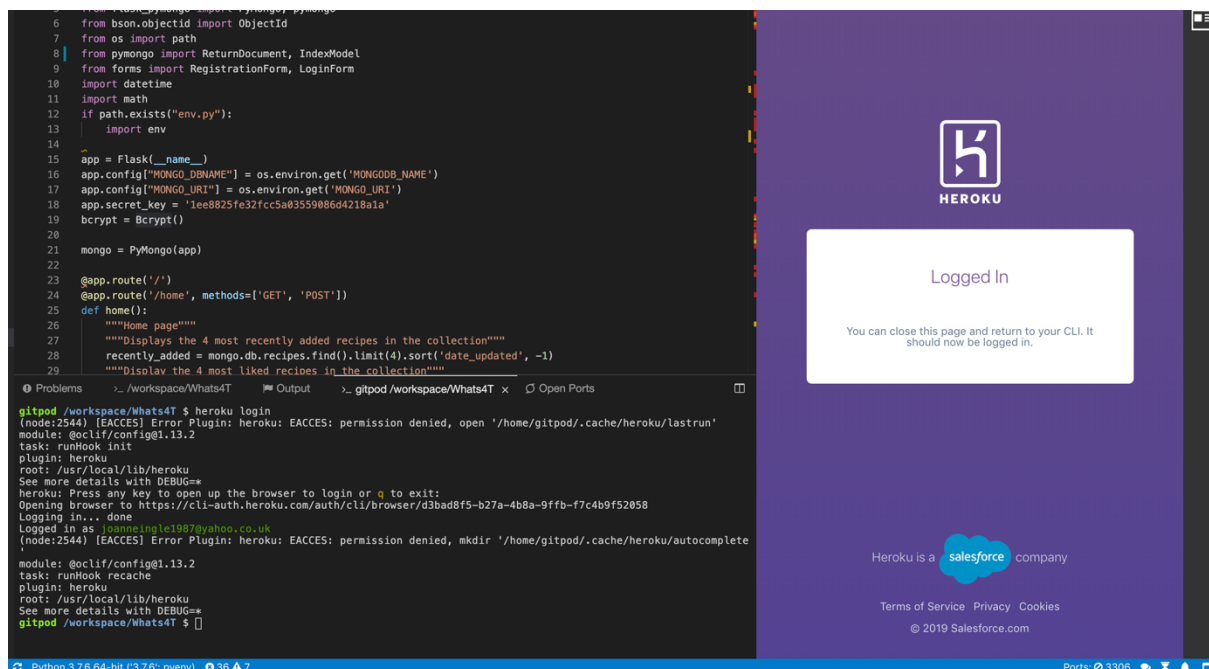


Heroku Deployment

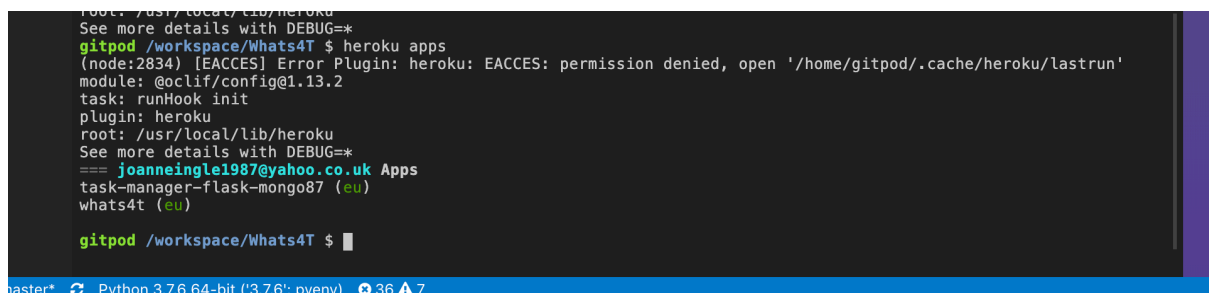
Heroku set-up and installation



Created a new app in Heroku called whats4t



Enter Heroku login command on CLI and logged into Heroku account



Entered Heroku apps command to check visibility of new whats4t app

Regular commits of Whats4T? files have already been made to the Whats4T GitHub repository

Associate the Heroku application as our master branch

- `heroku git:remote -a whats4t`

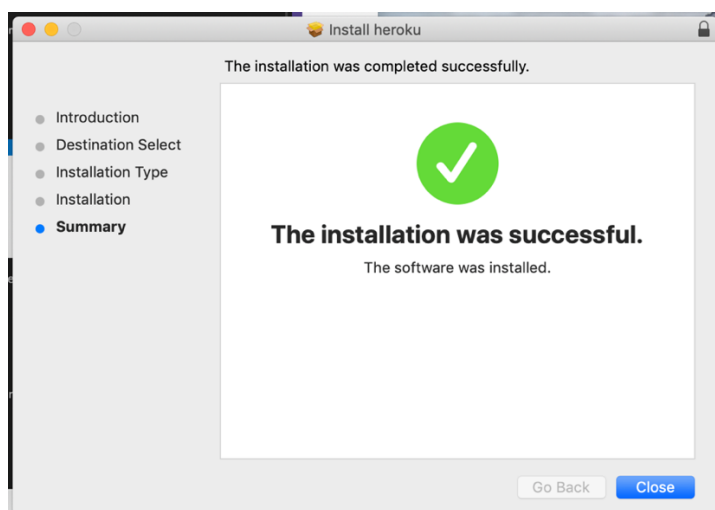
```
whats4t (eu)
gitpod /workspace/Whats4T $ heroku git:remote -a whats4t
(node:3147) [EACCES] Error Plugin: heroku: EACCES: permission denied, open '/home/gitpod/.cache/heroku/lastrun'
module: @oclif/config@1.13.2
task: runHook init
plugin: heroku
root: /usr/local/lib/h
See more details with Cmd + click to follow link
set git remote heroku to https://git.heroku.com/whats4t.git
gitpod /workspace/Whats4T $
```

- `heroku git:remote -a Whats4T`

```
gitpod /workspace/Whats4T $ heroku git:remote -a Whats4T
(node:3356) [EACCES] Error Plugin: heroku: EACCES: permission denied, open '/home/gitpod/.cache/heroku/lastrun'
module: @oclif/config@1.13.2
task: runHook init
plugin: heroku
root: /usr/local/lib/heroku
See more details with DEBUG=*
> Error: Couldn't find that app.
>
> Error ID: not_found
[Error: EACCES: permission denied, open '/home/gitpod/.cache/heroku/error.log'] {
  errno: -13,
  code: 'EACCES',
  syscall: 'open',
  path: '/home/gitpod/.cache/heroku/error.log'
}
gitpod /workspace/Whats4T $
```

Downloaded and installed the Heroku Command Line Interface (CLI) to make it easy to create and manage Heroku apps directly from the terminal.

Install Heroku for MacOS and performed standard installation



➤ Git push heroku master

```
gitpod /workspace/Whats4T $ git push heroku master
Enumerating objects: 374, done.
Counting objects: 100% (374/374), done.
Delta compression using up to 16 threads
Compressing objects: 100% (351/351), done.
Writing objects: 100% (374/374), 277.06 KiB | 6.76 MiB/s, done.
Total 374 (delta 211), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: !    No default language could be detected for this app.
remote:                HINT: This occurs when Heroku cannot detect the buildpack to use for this application automatically.
remote:                See https://devcenter.heroku.com/articles/buildpacks
remote:
remote: !    Push failed
remote: Verifying deploy...
remote:
remote: !    Push rejected to whats4t.
remote:
To https://git.heroku.com/whats4t.git
! [remote rejected] master -> master (pre-receive hook declined)
error: failed to push some refs to 'https://git.heroku.com/whats4t.git'
gitpod /workspace/Whats4T $
```

It has failed because the requirements aren't in place

➤ pip3 freeze --local > requirements.txt

Add the requirements.txt to GitHub repository

- git add requirements.txt
- git commit -m "added requirements.txt"

```
gitpod /workspace/Whats4T $ git commit -m "added requirements.txt"
[master e63565a] added requirements.txt
1 file changed, 15 insertions(+)
create mode 100644 requirements.txt
gitpod /workspace/Whats4T $
```

➤ git push heroku master

```
gitpod /workspace/Whats4T $ git push heroku master
Enumerating objects: 377, done.
Counting objects: 100% (377/377), done.
Delta compression using up to 16 threads
Compressing objects: 100% (354/354), done.
Writing objects: 100% (377/377), 277.03 KiB | 6.02 MiB/s, done.
Total 377 (delta 214), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: ----> Python app detected
remote: ----> Installing python-3.6.10
remote: ----> Installing pip
remote: ----> Installing SQLite3
remote: ----> Installing requirements with pip
remote: Collecting bcrypt==3.1.7
remote:   Downloading bcrypt-3.1.7-cp34-abi3-manylinux1_x86_64.whl (56 kB)
remote: Collecting cffi==1.13.2
remote:   Downloading cffi-1.13.2-cp36-cp36m-manylinux1_x86_64.whl (397 kB)
remote: Collecting click==7.0
remote:   Downloading Click-7.0-py2.py3-none-any.whl (81 kB)
remote: Collecting dnspython==1.16.0
remote:   Downloading dnspython-1.16.0-py2.py3-none-any.whl (188 kB)
remote: Collecting Flask==1.1.1
remote:   Downloading Flask-1.1.1-py2.py3-none-any.whl (94 kB)
remote: Collecting Flask-Bcrypt==0.7.1
remote:   Downloading Flask-Bcrypt-0.7.1.tar.gz (5.1 kB)
remote: Collecting Flask-Login==0.4.1
remote:   Downloading Flask-Login-0.4.1.tar.gz (14 kB)
remote: Collecting Flask-PyMongo==2.3.0
remote:   Downloading Flask-PyMongo-2.3.0-py2.py3-none-any.whl (12 kB)
remote: Collecting Flask-WTF==0.14.2
remote:   Downloading Flask-WTF-0.14.2-py2.py3-none-any.whl (14 kB)
remote: Collecting itsdangerous==1.1.0
remote:   Downloading itsdangerous-1.1.0-py2.py3-none-any.whl (16 kB)
remote: Collecting mongo==0.2.0
remote:   Downloading mongo-0.2.0.tar.gz (4.6 kB)
remote: Collecting pycparser==2.19
remote:   Downloading pycparser-2.19.tar.gz (158 kB)
remote: Collecting pymongo==3.10.1
remote:   Downloading pymongo-3.10.1-cp36-cp36m-manylinux2014_x86_64.whl (460 kB)
remote: Collecting Werkzeug==0.16.0
remote:   Downloading Werkzeug-0.16.0-py2.py3-none-any.whl (327 kB)
remote: Collecting WTForms==2.2.1
remote:   Downloading WTForms-2.2.1-py2.py3-none-any.whl (166 kB)
remote: Collecting six==1.4.1
remote:   Downloading six-1.4.1-py2.py3-none-any.whl (10 kB)
remote: Collecting Jinja2==2.10.1
```

```

remote:      Downloading Jinja2-2.11.1-py2.py3-none-any.whl (126 kB)
remote:      Collecting MarkupSafe==0.23
remote:      Downloading MarkupSafe-1.1.1-cp36-cp36m-manylinux1_x86_64.whl (27 kB)
remote:      Building wheels for collected packages: Flask-Bcrypt, Flask-Login, mongo, pycparser
remote:      Building wheel for Flask-Bcrypt (setup.py): started
remote:      Building wheel for Flask-Bcrypt (setup.py): finished with status 'done'
remote:      Created wheel for Flask-Bcrypt: filename=Flask_Bcrypt-0.7.1-py3-none-any.whl size=5010 sha256=a48d3d09a309e1885aec8c15dd1e08c60e319f34241c793e1e172ecbb38045c7
remote:      Stored in directory: /tmp/pip-ephem-wheel-cache-3o1c649y/wheels/c9/5c/81/9da99305abd85cb148b6428bd1a8e37aff10908430b0e2474a
remote:      Building wheel for Flask-Login (setup.py): started
remote:      Building wheel for Flask-Login (setup.py): finished with status 'done'
remote:      Created wheel for Flask-Login: filename=Flask_Login-0.4.1-py2.py3-none-any.whl size=15935 sha256=7ef76608f54744a641954b54cc1738dc94eb4127f64aa2c2eb751751e8d581
remote:      Stored in directory: /tmp/pip-ephem-wheel-cache-3o1c649y/wheels/db/40/67/41f90cc1fbb5ae5a444f380825ffa4dc2fe9f56a8c094f913
remote:      Building wheel for mongo (setup.py): started
remote:      Building wheel for mongo (setup.py): finished with status 'done'
remote:      Created wheel for mongo: filename=mongo-0.2.0-py3-none-any.whl size=4989 sha256=59bf0733a6ac5d92443f3685b33d7230b9f45069ab7ae39d4137f778fed999
remote:      Stored in directory: /tmp/pip-ephem-wheel-cache-3o1c649y/wheels/a3/c1/71/06cf9b4bbeac1db83479acd5686e17b818d188025c24667ce6
remote:      Building wheel for pycparser (setup.py): started
remote:      Building wheel for pycparser (setup.py): finished with status 'done'
remote:      Created wheel for pycparser: filename=pycparser-2.19-py2.py3-none-any.whl size=111031 sha256=cc952e04d8ff0d3d890619877af2b52b05b745b378f5b879130aa63139e3cc7
remote:      Stored in directory: /tmp/pip-ephem-wheel-cache-3o1c649y/wheels/c6/6b/83/2688afaa57ecfb0a66ac89191a8d9bad71c62ca55ee499c2d0
remote:      Successfully built Flask-Bcrypt Flask-Login mongo pycparser
remote:      Installing collected packages: six, pycparser, cffi, bcrypt, Click, dnspython, Werkzeug, MarkupSafe, Jinja2, itsdangerous, Flask, Flask-Bcrypt, Flask-Login, pymongo, Flask-PyMongo, WTForms, Flask-WTF, mongo
remote:      Successfully installed Click-7.0 Flask-1.1.1 Flask-Bcrypt-0.7.1 Flask-Login-0.4.1 Flask-PyMongo-2.3.0 Flask-WTF-0.14.2 Jinja2-2.11.1 MarkupSafe-1.1.1 WTForms-2.2.1 Werkzeug-0.16.0 bcrypt-3.1.7 cffi-1.13.2 dnspython-1.16.0 itsdangerous-1.1.0 mongo-0.2.0 pycparser-2.19 pymongo-3.10.1 six-1.14.0
remote:      -----> Discovering process types
remote:      Procfile declares types => (none)
remote:      -----> Compressing...
remote:      Done: 47.2M
remote:      -----> Launching...
remote:      Released v3
remote:      https://whats4t.herokuapp.com/ deployed to Heroku
remote:      Verifying deploy... done.
To https://git.heroku.com/whats4t.git
 * [new branch] master -> master
gitpod /workspace/Whats4T $

```

Missing Procfile – an instruction to Heroku as to which file to use as the entry point to the application

Send instruction to Procfile:

- echo web: python app.py > Procfile

```

gitpod /workspace/Whats4T $ echo web: python app.py > Procfile
gitpod /workspace/Whats4T $

```

Add and commit Procfile to GitHub repository

- git add Procfile
- git commit -m "added Procfile"

```

gitpod /workspace/Whats4T $ git add Procfile
gitpod /workspace/Whats4T $ git commit -m "added Procfile"
[master 10fec08] added Procfile
1 file changed, 1 insertion(+)
create mode 100644 Procfile
gitpod /workspace/Whats4T $

```

Push to Heroku

- git push heroku master

```

remote:      -----> Discovering process types
remote:      Procfile declares types => web
remote:      -----> Compressing...
remote:      Done: 47.2M
remote:      -----> Launching...
remote:      Released v4
remote:      https://whats4t.herokuapp.com/ deployed to Heroku
remote:      Verifying deploy... done.
To https://git.heroku.com/whats4t.git
 e63565a..10fec08 master -> master
gitpod /workspace/Whats4T $

```

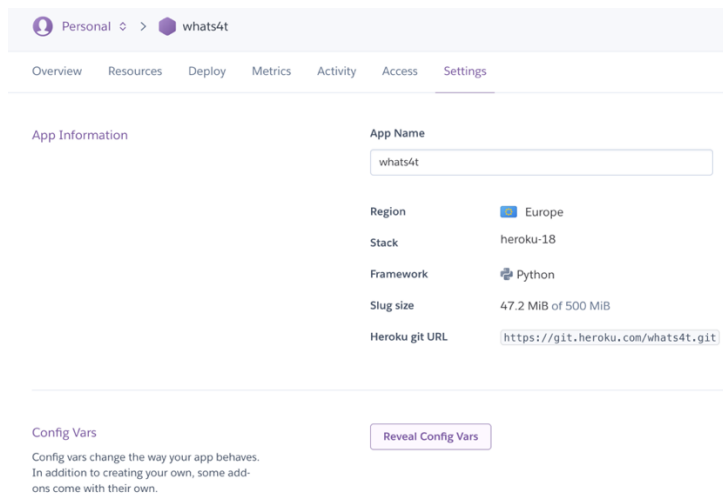
Command to run heroku application

- heroku ps:scale web=1

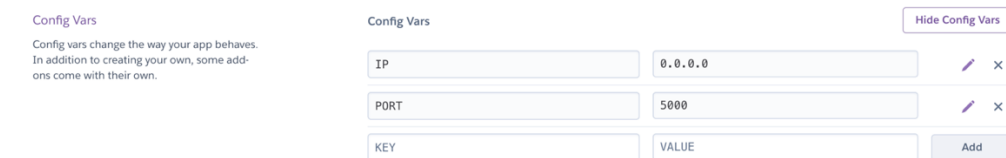
```
gitpod /workspace/Whats4T $ heroku ps:scale web=1
(node:4675) [EACCES] Error Plugin: heroku: EACCES: permission denied, open '/home/gitpod/.cache/heroku/lastrun'
module: @oclif/config@1.13.2
task: runHook init
plugin: heroku
root: /usr/local/lib/heroku
See more details with DEBUG=*
Scaling dynos... done, now running web at 1:Free
gitpod /workspace/Whats4T $
```

Config Variables

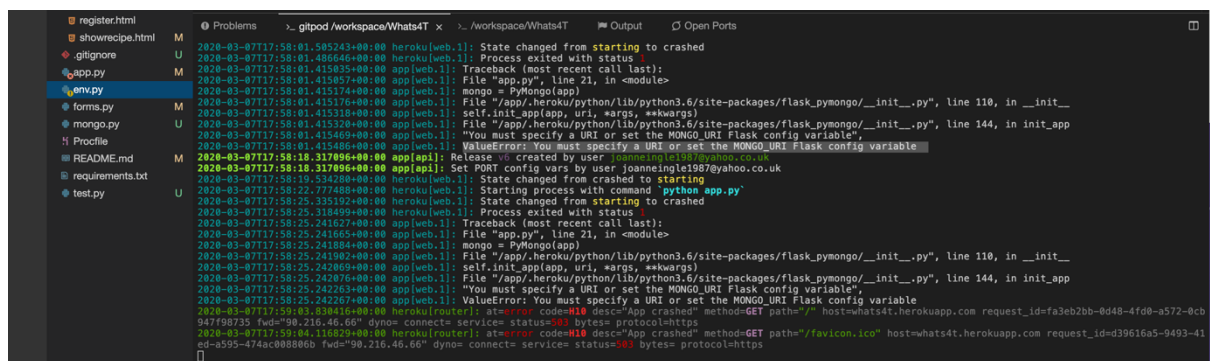
Add config variables to Heroku under Settings



Added IP and PORT to config variables



Error with running application as MONGO_URI was not added (in env.py file which is ignored by git)



Added new MONGO_URI config variable to Heroku which resolved the error

MONGO_URI and SECRET_KEY config variables added to Heroku

Config Vars

Config vars change the way your app behaves. In addition to creating your own, some add-ons come with their own.

Config Vars

IP

MONGO_URI

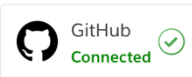
PORT

SECRET_KEY

KEY

Heroku has been configured to allow automatic deployment of code to Heroku when pushed to GitHub master branch

Deployment method



Automatic deploys

Enables a chosen branch to be automatically deployed to this app.

✓ Automatic deploys from `master` are enabled

Every push to `master` will deploy a new version of this app. **Deploys happen automatically:** be sure that this branch in GitHub is always in a deployable state and any tests have passed before you push. [Learn more](#).

☐ Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

[Disable Automatic Deploys](#)

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to [JoojooBee87/Whats4T](#) by [JoojooBee87](#)

[Disconnect...](#)

↔ Releases in the [activity feed](#) link to GitHub to view commit diffs

🔄 Automatically deploys from `master`