

# DevOPS TP2

## Dockerfile :

```
FROM python:3.8

RUN apt update
RUN apt install python3

# set the working directory in the container
WORKDIR C:/Users/zmoha/OneDrive/Bureau/tp2DevOPS

COPY app.py ./

# copy the dependencies file to the working directory
COPY requirements.txt .

# install dependencies
RUN pip install -r requirements.txt

# command to run on container start
CMD [ "python3", "./app.py" ]
```

## App.py :

```
import flask
from requests import Request, Session, Response
import os

from flask import request

app = flask.Flask(__name__)
app.config["DEBUG"] = True

@app.route('/', methods=['GET'])
def home():
    lat = request.args["lat"]
    long = request.args["lon"]
    apiKey = os.environ['API_KEY']

    url = 'http://api.openweathermap.org/data/2.5/weather'
    params = {
        'lat': lat,
        'lon': long,
        'appid': apiKey
```

```

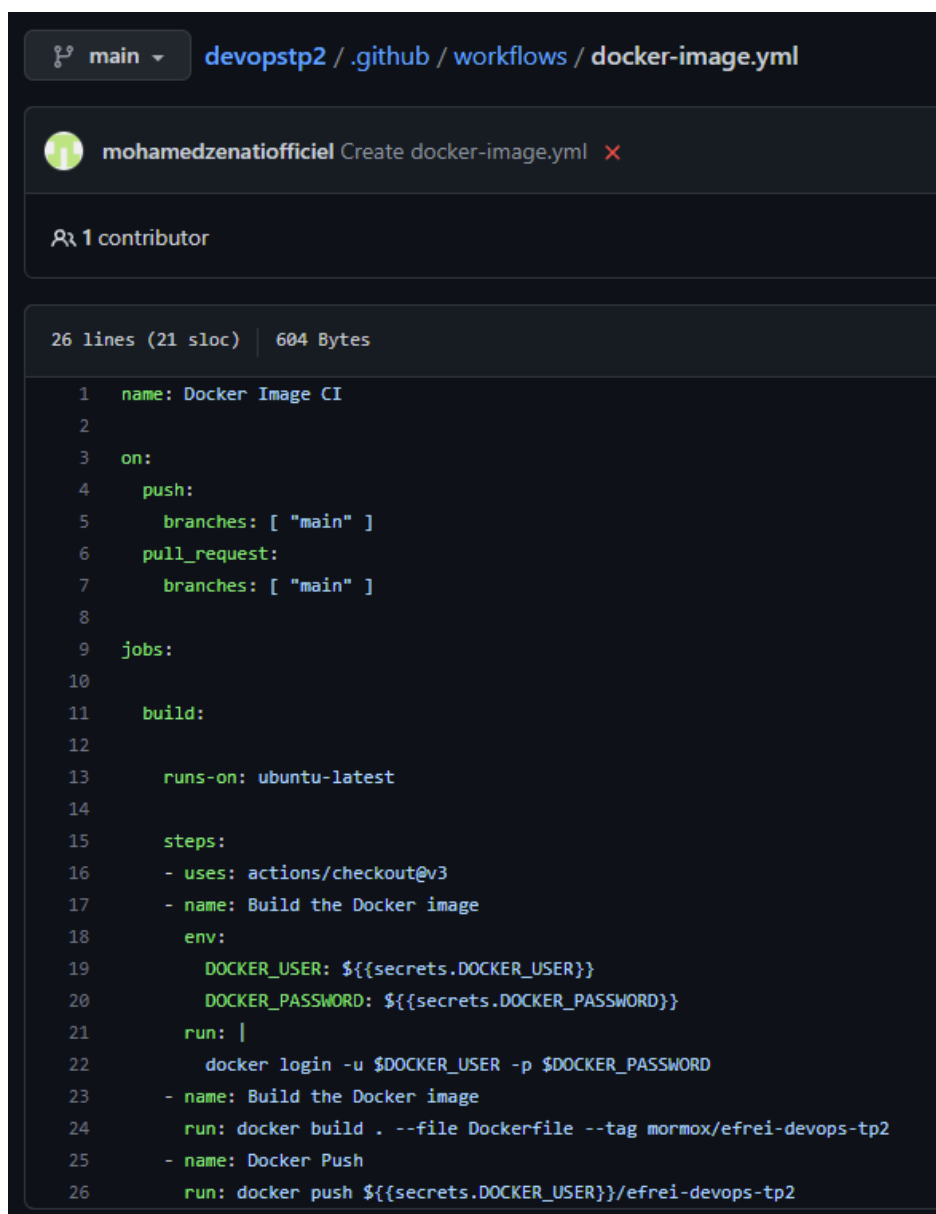
}
session = Session()
requete = Request('GET', url, params=params)
prepped = requete.prepare()
response = session.send(prepped)
return response.json()

app.run(port=8081)

```

## Etape 1 : Création du fichier docker-image.yml

Pour créer ce fichier, il faut aller sur github, créer un repo, aller dans « Actions » -> « New workflow » -> « docker image » puis créer le fichier



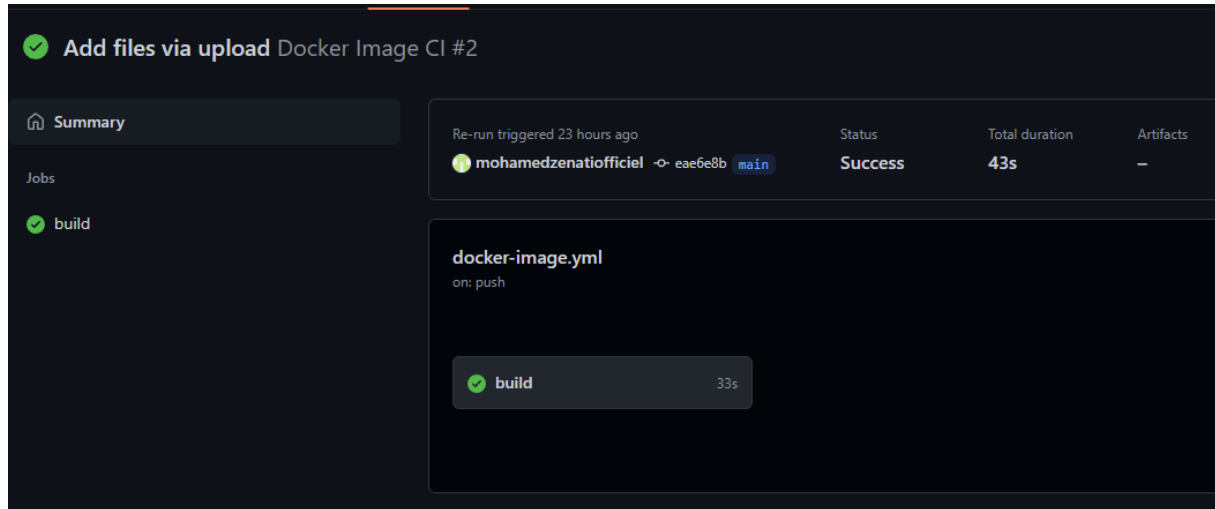
```

1  name: Docker Image CI
2
3  on:
4    push:
5      branches: [ "main" ]
6    pull_request:
7      branches: [ "main" ]
8
9  jobs:
10
11    build:
12
13      runs-on: ubuntu-latest
14
15      steps:
16      - uses: actions/checkout@v3
17      - name: Build the Docker image
18        env:
19          DOCKER_USER: ${secrets.DOCKER_USER}
20          DOCKER_PASSWORD: ${secrets.DOCKER_PASSWORD}
21        run: |
22          docker login -u $DOCKER_USER -p $DOCKER_PASSWORD
23      - name: Build the Docker image
24        run: docker build . --file Dockerfile --tag mormox/efrei-devops-tp2
25      - name: Docker Push
26        run: docker push ${secrets.DOCKER_USER}/efrei-devops-tp2


```

## Etape 2 : On ajoute notre fichier .py, notre dockerfile et notre requirement.txt dans le repo créer précédemment.

Une fois ça fait, dans « Actions » on voit qu'une nouvelle action est ajoutée et est entrain d'être build.



The screenshot shows the GitHub Actions interface for a workflow named "Add files via upload" (ID: Docker Image CI #2). The workflow is in a "Success" state, triggered by a push to the "main" branch. The build job, named "build", completed successfully in 33 seconds. The workflow file is named "docker-image.yml" and is triggered on a "push".

Re-run triggered 23 hours ago	Status	Total duration	Artifacts
 mohamedzenatiofficiel -> eae6e8b main	Success	43s	—

**build** 33s

## Etape 3 :

```
(base) PS C:\WINDOWS\system32> docker run -p 8081:8084 --network bridge --env API_KEY=240aa650f4db4e154a07d0459c30a347 mormox/efrei-devops-tp2
Unable to find image 'mormox/efrei-devops-tp2:latest' locally
latest: Pulling from mormox/efrei-devops-tp2
e756f3fdd6a3: Already exists
bf168a674899: Already exists
e604223835cc: Already exists
6d5c91c4cd86: Already exists
2cc8d8854262: Already exists
2767dbfceb87: Already exists
e5a387f746e4: Already exists
54b770283d3a: Already exists
d829066ff47d: Already exists
beb94a6b13a7: Pull complete
2d6fba2cece2: Pull complete
81c07ba9aeac: Pull complete
01e484094c41: Pull complete
36e2e29b793a: Pull complete
9affed275770: Pull complete
Digest: sha256:2b90e532a124ab26bad1f63d6ec88b637829cacfc49066a5f552de4c53904cab
Status: Downloaded newer image for mormox/efrei-devops-tp2:latest
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:8081 (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 310-043-674
```

## Etape 4 : Problème rencontrer lors du curl

```
(base) PS C:\WINDOWS\system32> curl "http://127.0.0.1:8081/?lat=5.902785&lon=102.754175"
curl : La connexion sous-jacente a été fermée : La connexion a été interrompue de manière inattendue.
Au caractère Ligne:1 : 1
+ curl "http://127.0.0.1:8081/?lat=5.902785&lon=102.754175"
~~~~~~
+ CategoryInfo          : InvalidOperation : (System.Net.HttpWebRequest:HttpWebRequest) [Invoke-WebRequest], WebEx
ception
+ FullyQualifiedErrorId : WebCmdletWebResponseException,Microsoft.PowerShell.Commands.InvokeWebRequestCommand

(base) PS C:\WINDOWS\system32> █
```