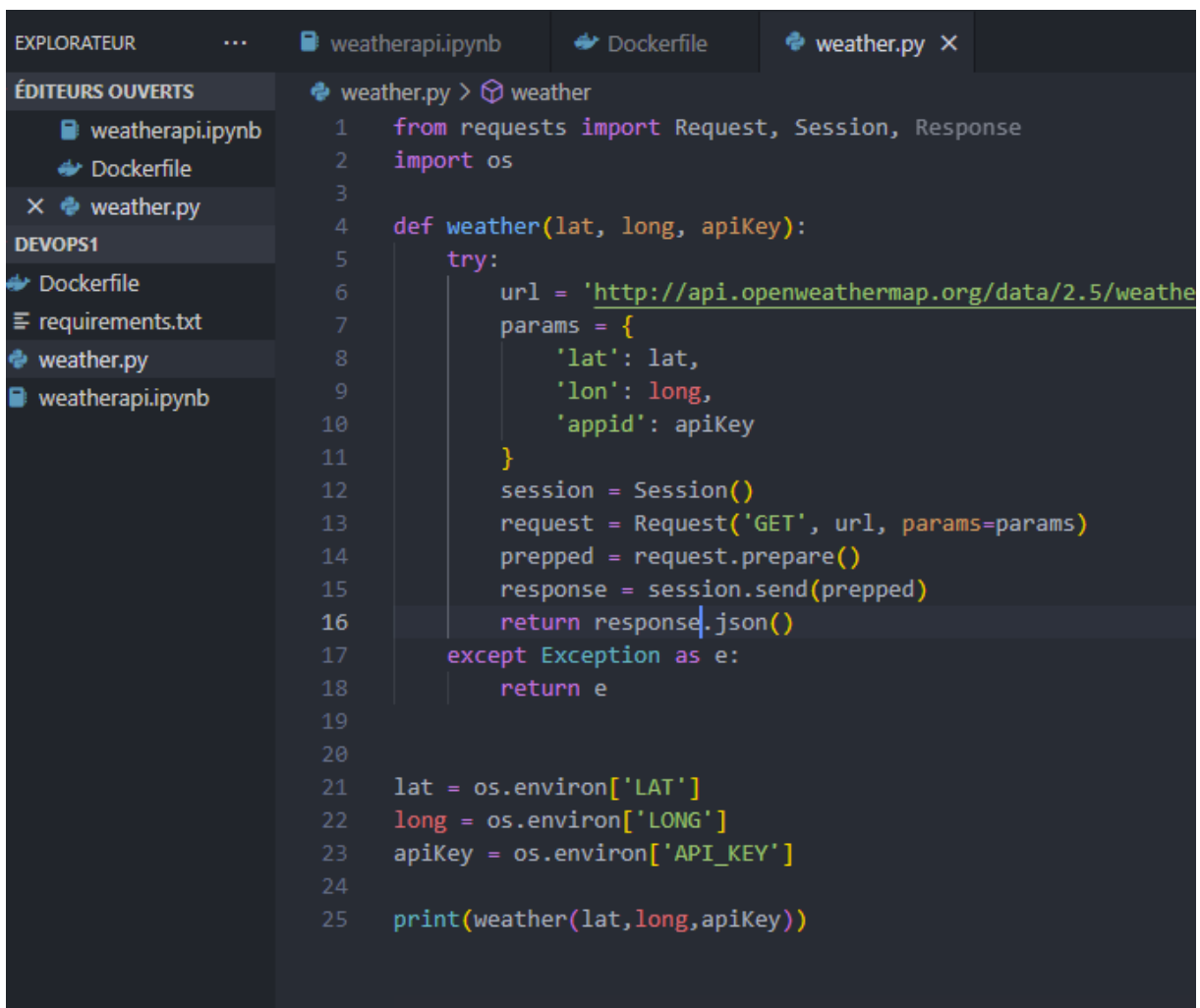
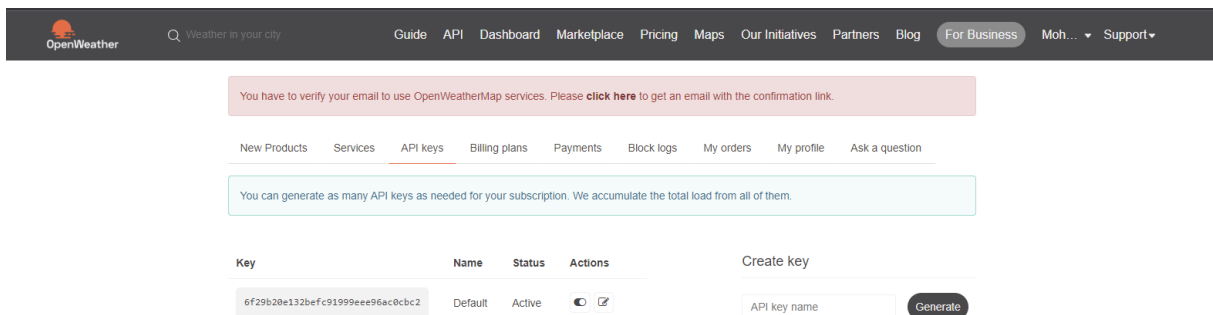


Rapport DevOPS TP 1

Partie 1 :

A l'aide de l'API openWeather, on peut récupérer les données sur la météo en fonction de la latitude et de la longitude.



```
weatherapi.ipynb Dockerfile X weather.py
Dockerfile > ...
1 FROM python:3.8
2
3 RUN apt update
4 RUN apt install python3
5
6 # set the working directory in the container
7 WORKDIR C:/Users/zmoha/OneDrive/Bureau/devops1
8
9 COPY weather.py ./
10
11 # copy the dependencies file to the working directory
12 COPY requirements.txt .
13
14 # install dependencies
15 RUN pip install -r requirements.txt
16
17 # command to run on container start
18 CMD [ "python3", "./weather.py" ]
```

Partie 2 :

Voici l'ensemble des commandes utilisés :

Pipreqs « path »

Docker build -t devops1

Docker run --env LAT= « xxx » --env LONG= « xxx » --env API_KEY= « xxx »

Docker image

Docker tag « xxx » devops1

Docker login -u mormox

Docker tag « xxx » mormox/meteo :devops1

Docker push mormox/meteo :devops1

```

(base) PS C:\WINDOWS\system32> cd..
(base) PS C:\WINDOWS> cd..
(base) PS C:\> cd users
(base) PS C:\users> cd zmoha
(base) PS C:\users\zmoha> cd onedrive
(base) PS C:\users\zmoha\onedrive> cd bureau
(base) PS C:\users\zmoha\onedrive\bureau> cd devops1
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker build -t TP1 .
invalid argument "TP1" for "-t, --tag" flag: invalid reference format: repository name must be lowercase
See 'docker build --help'.
(base) PS C:\users\zmoha\onedrive\bureau\devops1> pip install pipreqs
Requirement already satisfied: pipreqs in c:\users\zmoha\anaconda3\lib\site-packages (0.4.11)
Requirement already satisfied: docopt in c:\users\zmoha\anaconda3\lib\site-packages (from pipreqs) (0.6.2)
Requirement already satisfied: yang in c:\users\zmoha\anaconda3\lib\site-packages (from pipreqs) (0.1.9)
Requirement already satisfied: requests in c:\users\zmoha\anaconda3\lib\site-packages (from yang->pipreqs) (2.26.0)
Requirement already satisfied: charset-normalizer<=2.0.0 in c:\users\zmoha\anaconda3\lib\site-packages (from requests->yang->pipreqs) (2.0.4)
Requirement already satisfied: certifi<=2017.4.17 in c:\users\zmoha\anaconda3\lib\site-packages (from requests->yang->pipreqs) (2021.10.8)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\zmoha\anaconda3\lib\site-packages (from requests->yang->pipreqs) (1.26.7)
Requirement already satisfied: idna<4,>=2.5 in c:\users\zmoha\anaconda3\lib\site-packages (from requests->yang->pipreqs) (2.10)
WARNING: There was an error checking the latest version of pip.
(base) PS C:\users\zmoha\onedrive\bureau\devops1> pipreqs C:/Users/zmoha/OneDrive/Bureau/devops1
INFO: Successfully saved requirements file in C:/Users/zmoha/OneDrive/Bureau/devops1/requirements.txt

```

```

Failed to compile cuda key: /usr/lib/llvm-11/bin/llvm-objcopy: not found: not found
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker build -t devops1 .
[+] Building 6.1s (12/12) FINISHED
=> [internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 454B 0.0s
=> [internal] load .dockerignore 0.1s
=> => transferring context: 2B 0.0s
=> [internal] load metadata for docker.io/library/python:3.8 0.3s
=> [1/7] FROM docker.io/library/python:3.8sha256:1fbd8171edd8d6661b1b658894573e36c53and18d91560ac8011e27ca139 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 501B 0.0s
=> CACHED [2/7] RUN apt update 0.0s
=> CACHED [3/7] RUN apt install python3 0.0s
=> CACHED [4/7] WORKDIR C:/Users/zmoha/OneDrive/Bureau/devops1 0.0s
=> [5/7] COPY weather.py ./ 0.1s
=> [6/7] COPY requirements.txt 0.1s
=> [7/7] RUN pip install -r requirements.txt 4.4s
=> exporting to image 0.4s
=> => exporting layers 0.1s
=> => writing image sha256:6ADbd067D861D8821d2c9e07c7a4c638087b01d27323207f073bda3f44eebd6 0.0s
=> saving to docker.io/devops1 0.0s

```

```

(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker run --rm --lat="5.902785" --lon="102.754175" --api-key="6f29b20c132bec91999eed6ac8bc1" devops1
{"coord": {"lon": 102.754175, "lat": 5.902785}, "weather": [{"id": 804, "main": "Clouds", "description": "overcast clouds", "icon": "04n"}, {"station": "Male", "temp": 300.05, "feels_like": 303.43, "temp_min": 300.05, "temp_max": 300.95, "pressure": 1008, "humidity": 70, "sea_level": 1000, "grnd_level": 983, "visibility": 10000, "wind": {"speed": 1.05, "deg": 75, "gust": 1.03}, "clouds": {"all": 87}, "dt": 1654258079, "sys": {"country": "MV", "sunrise": 1654218430, "sunset": 1654255233}, "timezone": "Etc/UTC", "id": 1736405, "name": "Zerbin", "cod": 200}]

```

```

(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
devops1              latest         64dbd9b79862   9 minutes ago  939MB
cp1                  latest         31bd41dd63f3   3 hours ago    939MB
test                 latest         4dcd4e6a936f   3 hours ago    939MB
<none>               <none>         58f72840880e   3 hours ago    921MB
alpine/git           latest         241890ad72b1   2 weeks ago    38.2MB
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker tag 64dbd9b79862 devops1
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker push mormox/meteo:devops1
The push refers to repository [docker.io/mormox/meteo]
An image does not exist locally with the tag: mormox/meteo
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker login -u mormox
Password:
Login Succeeded
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker push mormox/meteo:devops1
The push refers to repository [docker.io/mormox/meteo]
An image does not exist locally with the tag: mormox/meteo
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker push mormox/meteo:devops1
The push refers to repository [docker.io/mormox/meteo]
An image does not exist locally with the tag: mormox/meteo
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker push mormox/meteo:devops1
The push refers to repository [docker.io/mormox/meteo]
An image does not exist locally with the tag: mormox/meteo
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker tag 64dbd9b79862 devops1/mormox
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker push mormox/meteo:devops1
The push refers to repository [docker.io/mormox/meteo]
An image does not exist locally with the tag: mormox/meteo
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker tag 64dbd9b79862 devops1/meteo
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker push mormox/meteo:devops1
The push refers to repository [docker.io/mormox/meteo]
An image does not exist locally with the tag: mormox/meteo
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker tag 64dbd9b79862 mormox/meteo:devops1
(base) PS C:\users\zmoha\onedrive\bureau\devops1> docker push mormox/meteo:devops1
The push refers to repository [docker.io/mormox/meteo]
c627ac4f915d: Pushed
de532ed9fb1b: Pushed
ef4a7a6f0901: Pushed
9923b77d5674: Pushed
9351813165cb: Pushed
6329e5740047: Pushed
be869761d95b: Mounted from library/python
a019d1de6299: Mounted from library/python
fecf15812fff: Mounted from library/python
13b045a1dfd2: Mounted from library/python
2fbabeba902e: Mounted from library/python
ee509ed6e976: Mounted from library/python
9177197c67d0: Mounted from library/python
7dbadf2b9bd8: Mounted from library/python
e7597c345c2e: Mounted from library/python
devops1: digest: sha256:04b83391deba073a0422bbd875d2e863c228407cf93a6238ac6c10f96a28c106 size: 3470
(base) PS C:\users\zmoha\onedrive\bureau\devops1>

```

