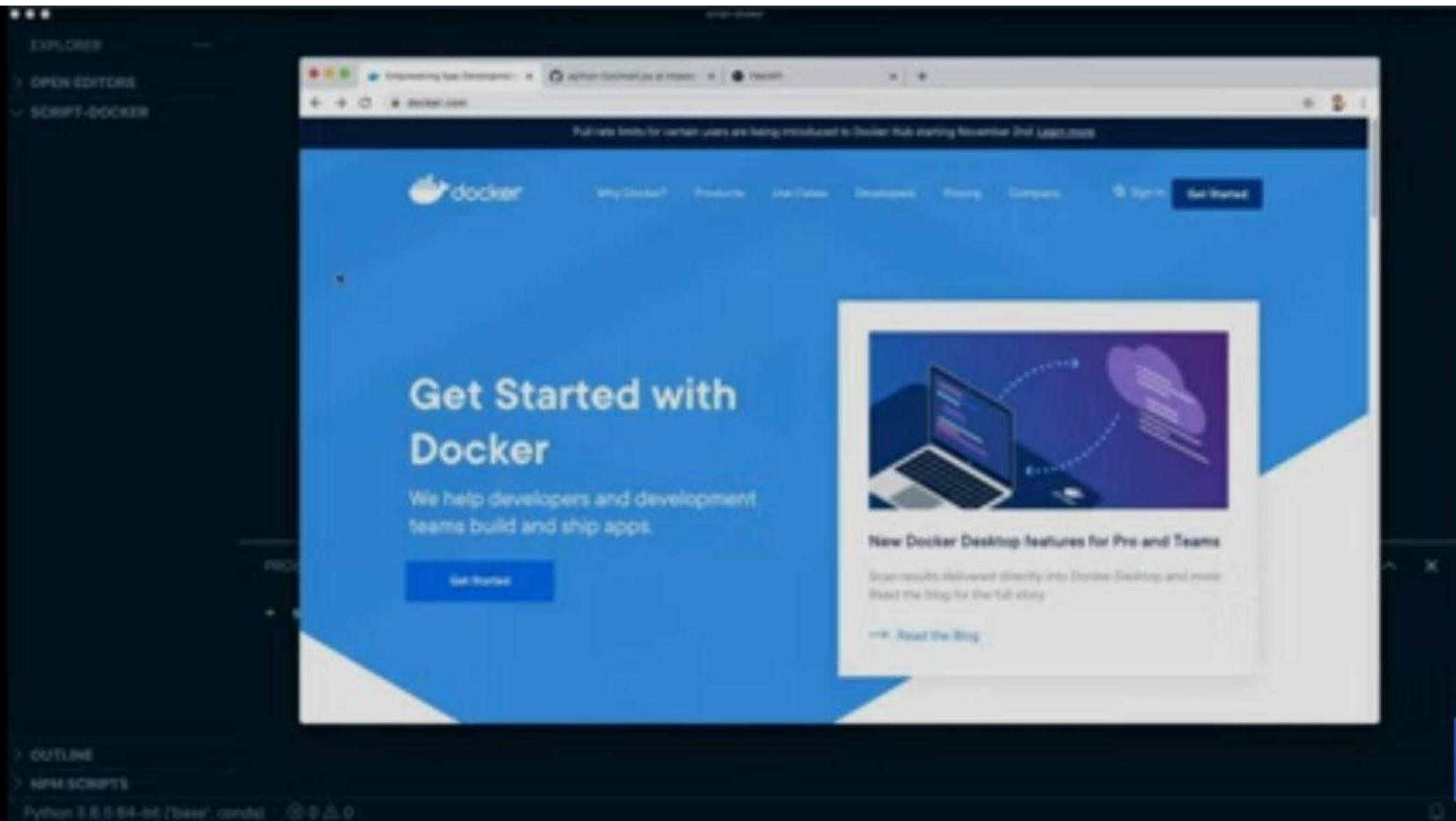


CONTAINERIZE THE APP

TEAM ID:PNT2022TMID10774




VS Code Explorer sidebar on the left shows:

- EXPLORER
- OPEN EDITORS
- SCRIPT-DOCKER
- OUTLINE
- NPM SCRIPTS

The main window displays the Docker website with the following content:

Get Started with Docker


We have a complete container solution for you - no matter who you are and where you are on your containerization journey.



Docker Desktop

Develop productivity tools and a local Kubernetes environment


[Download for Mac](#)



Docker Hub

Cloud-based application registries and development team collaboration services

[Sign up](#)



Play with Docker

Cloud-based Docker environment to try out Docker and learn the ropes

[Play with Docker](#)

main.py — script-cocker

EXPLORERmain.py

OPEN EDITORSmain.py

```
1 import random
2 import requests
3 from bs4 import BeautifulSoup
4
5 # crawl IMDB Top 250 and randomly select a movie
6
7 URL = 'http://www.imdb.com/chart/top'
8
9 def main():
10     response = requests.get(URL)
11
12     soup = BeautifulSoup(response.text, 'html.parser')
13     #soup = BeautifulSoup(response.text, 'lxml') # faster
14
15     # print(soup.prettify())
16
17     movietags = soup.select('td.titleColumn')
18     inner_movietags = soup.select('td.titleColumn a')
19     ratingtags = soup.select('td.posterColumn span[name=ir]')
20
21     def get_year(movie_tag):
22         moviesplit = movie_tag.text.split()
23         year = moviesplit[-1] # last item
24         return year
25
26     years = [get_year(tag) for tag in movietags]
27     actors_list = [tag['title'] for tag in inner_movietags] # access attribute 'title'
28     titles = [tag.text for tag in inner_movietags]
29     ratings = [float(tag['data-value']) for tag in ratingtags] # access attribute 'data-value'
30
```

Python 3.8.5 64-bit ('base': conda) 0 0Ln 40, Col 6 Spaces: 4 UTF-8 LF Python

EXPLORER

main.py Dockerfile

OPEN EDITORS

SCRIPT-DOCKER

Dockerfile

main.py

main.py

29 ratings = [float(tag['data-value']) for tag in ratingtags] # access attribute 'data-value'

30

31 n_movies = len(titles)

32

33 while(True):

34 idx = random.randrange(0, n_movies)

35

36 print(f'{titles[idx]} {years[idx]}, Rating: {ratings[idx]:.1f}, Starring: {actors_list[idx]}')

37

38 user_input = input('Do you want another movie (y/[n])? ')

39 if user_input != 'y':

40 break

41

42

43 if __name__ == '__main__':

44 main()

PROBLEMS

TERMINAL

OUTPUT

DEBUG CONSOLE

1: docker

Der Elefantenmensch (1980), Rating: 8.1, Starring: David Lynch (dir.), Anthony Hopkins, John Hurt

Do you want another movie (y/[n])? Traceback (most recent call last):

File "./main.py", line 44, in <module>

main()

File "./main.py", line 38, in main

user_input = input('Do you want another movie (y/[n])? ')

EOFError: EOF when reading a line

+ script-docker docker run -t -i python-imdb

Klaus (2019), Rating: 8.1, Starring: Sergio Pablos (dir.), Jason Schwartzman, J.K. Simmons

Do you want another movie (y/[n])? █

OUTLINE

NPM SCRIPTS

Python 3.8.5 64-bit ('base': conda) 0 0 Ln 39, Col 19 Spaces: 4 UTF-8 LF Python

EXPLORER

main.py Dockerfile

OPEN EDITORS

FASTAPI-DOCKER

app

main.py

venv

Dockerfile

requirements.txt

Dockerfile > WORKDIR

```
1 FROM python:3.8
2
3 WORKDIR /fastapi-app
4
5 COPY requirements.txt .
6
7 RUN pip install -r requirements.txt
8
9 COPY ./app ./app
10
11 CMD ["python", "./app/main.py"]
```

fastapi-docker docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PO
RTS	NAMES				
14b4a878d1db	python-fastapi	"python ./app/main.py"	3 minutes ago	Up 3 minutes	0.
0.0.0:8000->8000/tcp	elated_sammot				

fastapi-docker docker exec -it 14b4a878d1db /bin/sh

```
# ls
app requirements.txt
# cd ..
# ls
bin dev fastapi-app lib media opt root sbin sys usr
boot etc home lib64 mnt proc run srv tmp var
# cd fastapi-app
# ls
app requirements.txt
# cd app
# ls
main.py
#
```

PROBLEMS

TERMINAL

OUTPUT

DEBUG CONSOLE

1: docker

```
=> => naming to docker.io/library/python-fastapi
(venv) → fastapi-docker docker run -p 8000:8000 python-fastapi
INFO: Started server process [1]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)
INFO: 172.17.0.1:45268 - "GET / HTTP/1.1" 200 OK
INFO: 172.17.0.1:45268 - "GET /items/5 HTTP/1.1" 200 OK
INFO: 172.17.0.1:45268 - "GET /items/9 HTTP/1.1" 200 OK
```

0.0s

OUTLINE

NPM SCRIPTS

Python 3.7.7 64-bit ('venv': venv)

Ln 3, Col 1 (20 selected)

Spaces: 4

UTF-8

LF

Dockerfile

Go Live