

CAD-IBM

DOCKER ASSIGNMENT

A PROGRAMMER'S PERSPECTIVE

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Roll NO. :-28

2024

SUBJECT TITLE

Docker assignment

File

Edit

Selection

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Run

Terminal

Help

←

→

flask-app

Dockerfile

app.py

requirements.txt

Dockerfile > ...

1 #We will build mirror image of my app from base image

2 FROM python:3.8

3

4 #set a working directires in docker.

5 WORKDIR /Flask-app

6

7 #copy requirement file into my docker image.

8 COPY requirements.txt requirements.txt

9

10 #run my requirements.txt file in docker

11 RUN pip install -r requirements.txt

12

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

PS C:\Users\games\OneDrive\Desktop\Flask-app> docker build -t myfirstpythonapp .

[+] Building 28.8s (4/9)

=> [internal] load build definition from Dockerfile

=> Transferring dockerfile: 393B

=> [internal] load metadata for docker.io/library/python:3.8

=> [internal] load .dockerignore

=> Transferring context: 2B

=> [internal] load build context

=> Transferring context: 95B

=> [1/5] FROM docker.io/library/python:3.8@sha256:6eaf6099cac9f66419d1fc3a63aabd783214e8e38d2a1c0db2bf00852ef9b7d

=> resolve docker.io/library/python:3.8@sha256:6eaf6099cac9f66419d1fc3a63aabd783214e8e38d2a1c0db2bf00852ef9b7d

=> sha256:17b8bdc700ade4f94b101a88b71bf7d77132e074d5f3a59299c6333d2bf7e5 7.36KB / 7.36KB

=> sha256:1458e7f495fcb85fbcad1e7094f8b99c4dcdd46eb2180cf04ac7396baf6fc7f 25.17MB / 49.58MB

=> sha256:6eaf6099cac9f66419d1fc3a63aabd783214e8e38d2a1c0db2bf00852ef9b7d 1.86KB / 1.86KB

=> sha256:3b74f020507cc447d399b5c64cael45793235140cc2c1d4f02256fdd304b87 2.01KB / 2.01KB

=> sha256:2c79c2b42f41b18453e4421b723d56146db82939dc88455e077768e18132f4 18.87MB / 24.05MB

=> sha256:c4c40c3e3cdf945721f480e1db39aac857876fdb5c33b8fbfc6f55c63b0b9428 20.97MB / 64.14MB

docker:default

0.0s

0.0s

4.6s

0.0s

0.0s

0.0s

0.0s

24.1s

0.0s

24.1s

24.1s

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CRLF

Dockerfile

1706

29-04-2024



> RUN

Run and Debug

To customize Run and Debug create a `launch.json` file.

Show all automatic debug configurations.



Welcome

app.py

X

Dockerfile

app.py > ...

```

3 print("this is my first image!")
4 print("Current working directory is: ", os.getcwd())
5
6
7
8
9 app=Flask(__name__)
10
11 @app.route('/')
12
13 def Hello_world():
14     return "Hello_World, this is our docker demo!"
15
16 if __name__ == "__main__":
17     app.run(debug=True, host='0.0.0.0')
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

```
PS C:\Users\gates\OneDrive\Desktop\Cad Docker Assignment> docker build -t myfirstapp .
[+] Building 3.8s (8/8) FINISHED
```

What's Next?

1. Sign in to your Docker account → [docker login](#)
2. View a summary of image vulnerabilities and recommendations → [docker scout quickreview](#)

✓ BREAKPOINTS

■ Raised Exceptions

✓ Uncaught Exceptions

- User Uncaught Exceptions



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Haze

Q Search

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Python

3.12.2 64-bit

07:40
30-04-2024

Code

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Containers

Images

Volumes

Builds

Dev Environments BETA

Docker Scout

Extensions

Add Extensions

Images

[Give feedback](#)

Local Hub

1.01 GB / 1.01 GB in use 6 Images

Last refresh: 8 seconds ago

Search

≡ ☰

Delete Space to be reclaimed 0 Bytes

Name	Tag	Status	Created	Size	Actions
myfirstapp 9979a26dfa62	latest	In use	1 day ago	1.01 GB	In use Refresh Delete
<none> b1df28ecc452	<none>	In use (dangling)	1 day ago	1.01 GB	In use Refresh Delete
<none> 069d2265e16b	<none>	In use (dangling)	2 days ago	1.01 GB	In use Refresh Delete
<none> 7416409b395a	<none>	In use (dangling)	2 days ago	1.01 GB	In use Refresh Delete
<none> 5a67f6ac6d57	<none>	In use (dangling)	2 days ago	1.01 GB	In use Refresh Delete
myfirstdockerimg 652676b9daf4	latest	In use	2 days ago	1.01 GB	In use Refresh Delete

Selected 1 of 6

Engine running

⏸ ⏹ ⚙

RAM 1.61 GB CPU 2.14% Not signed in

New version available

4

31°C
Haze

⏏

Search

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beautiful_poincare

myfirstapp:latest

1c524cd0f53d

Logs Inspect Bind mounts Exec Files Stats

2024-05-01 09:41:48 this is my first Image!
2024-05-01 09:41:48 Current Working directory is: /app

STATUS
Exited (1) (0 seconds ago)