

Assignment -4

Assignment Date	10 October 2022
Student Name	KANMANI M
Student Roll Number	814619104008
Maximum Marks	2 Marks

Question 1:

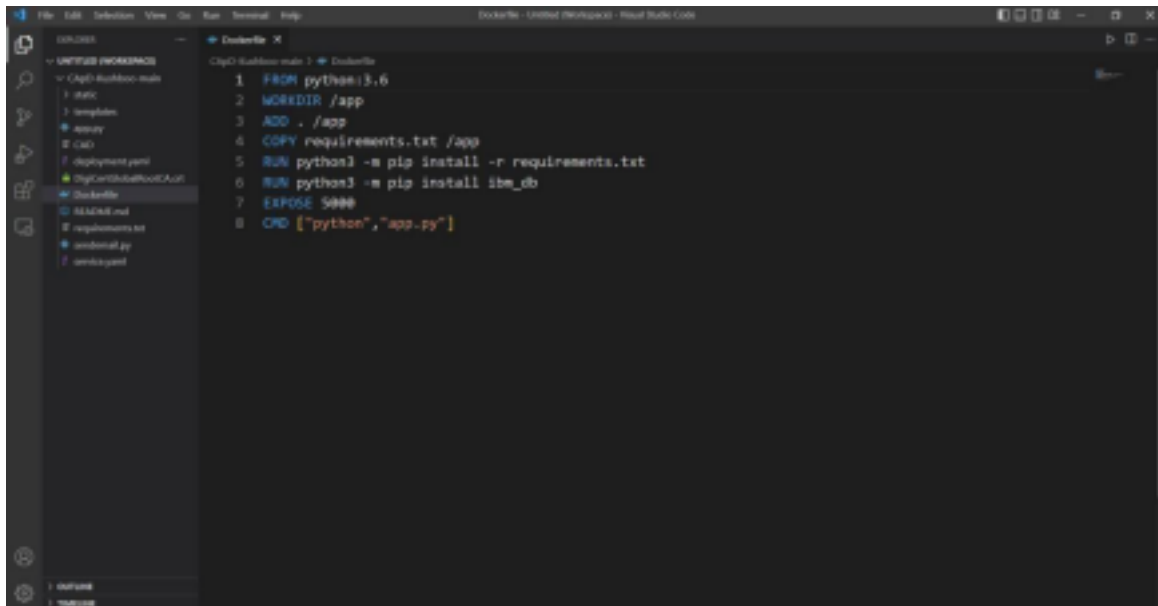
1. Pull an Image from docker hub and run it in docker playground

The screenshot shows the Docker Playground interface in a web browser. The main panel displays the details of a running container named 'cdp7fp79_cdp7fsu0qau000bpngug'. The container's IP is 192.168.0.28, and it has 1.62% memory usage (64.73MB / 3.906GB) and 0.94% CPU usage. The container is running the 'uifd/ui-for-docker:latest' image. The terminal window shows the following commands and output:

```
# The SWD team.
[rook1] (local) root@192.168.0.28 -
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d099c8: Pull complete
Digest: sha256:fe371ff3a5349269b24073a5ab1244d0c0b034bade244870572193b1ch749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[rook1] (local) root@192.168.0.28 -
$ docker run -d -p 9000:9000 --privileged --w /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
f7edfecb1dca466d0f220e0eae438f84be6e0da29a382a2160ee153e6b553ea
[rook1] (local) root@192.168.0.28 -
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
uifd/ui-for-docker  latest            962940f93fa5        6 years ago        8.1MB
[rook1] (local) root@192.168.0.28 -
```

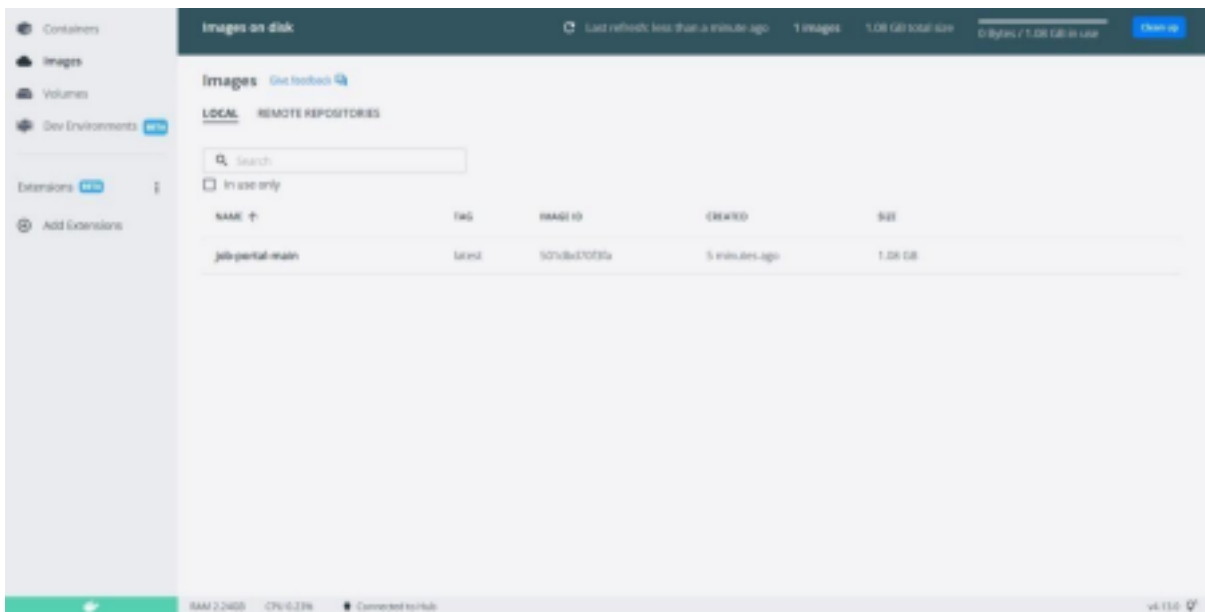
Question 2:

2. Create a docker file for the job portal application and deploy it in Docker desktop application.



The screenshot shows the Visual Studio Code editor with a Dockerfile open. The left sidebar displays the 'EXPLORER' view with the file tree. The main editor area shows the Dockerfile content. The Dockerfile includes instructions to set the base image to python:3.6, set the working directory to /app, add the current directory's contents to /app, copy requirements.txt to /app, run pip install -r requirements.txt, run pip install lib_db, expose port 5000, and set the command to run python app.py.

```
1 FROM python:3.6
2 WORKDIR /app
3 ADD . /app
4 COPY requirements.txt /app
5 RUN python3 -m pip install -r requirements.txt
6 RUN python3 -m pip install lib_db
7 EXPOSE 5000
8 CMD ["python", "app.py"]
```



Question 3:

3. Create a IBM container registry and deploy helloworld app or jobportalapp.





Container Registry

Quick start

Namespaces

Repositories

Images

Trails

Settings

Images

Location: Sydney

View by: Digest Search Create

<input type="checkbox"/>	Repository/digest	Tags	Manifest type	Created	Size	Security status
<input type="checkbox"/>	job-post-to-app/test@sha256:ca66688a6a72...	Digest	Docker	1 day ago	435 MB	99 issues

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```

C:\Users\user>docker push job-portal-main as.lor.in/job-portal-app:test
"docker push" requires exactly 1 argument.
See 'docker push --help'.

Usage: docker push [OPTIONS] NAME[:TAG]

Push an image or a repository to a registry.


C:\Users\user>docker tag job-portal-main as.lor.in/job-portal-app:test

C:\Users\user>docker push as.lor.in/job-portal-app:test
Using default tag: latest
The push refers to repository [as.lor.in/job-portal-app:test]
9d7f19303460: Mounted from job-portal-app/test:mip
5b33e7c74b0c: Mounted from job-portal-app/test:mip
5837e6b32811: Mounted from job-portal-app/test:mip
1d7f5bb3b5f1: Mounted from job-portal-app/test:mip
30541357b411: Mounted from job-portal-app/test:mip
a6d338632f6c: Mounted from job-portal-app/test:mip
5a9f15b6b62c: Mounted from job-portal-app/test:mip
5a9d95b2b5f1: Mounted from job-portal-app/test:mip
5c3d7d57c5c2: Mounted from job-portal-app/test:mip
5c3d7d57c5c2: Mounted from job-portal-app/test:mip
5a9f15b6b62c: Mounted from job-portal-app/test:mip
5c3d7d57c5c2: Mounted from job-portal-app/test:mip
13912c135d3d: Mounted from job-portal-app/test:mip
13912c135d3d: Mounted from job-portal-app/test:mip
Digest: sha256:e60b0d60768f4f4d8f4b2b0b6cc179034614e670ca8b0c8a3c9b3
Content: sha256:e60b0d60768f4f4d8f4b2b0b6cc179034614e670ca8b0c8a3c9b3
Content: image is up to date for as.lor.in/job-portal-app:test:latest
as.lor.in/job-portal-app:test:latest

C:\Users\user>docker run -p 5000:5000 as.lor.in/job-portal-app:test
> 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: off
> Running on all addresses.
> WARNING: This is a development server. Do not use it in a production deployment.
> Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
172.17.0.2 - - [25/Oct/2023 11:45:28] "GET / HTTP/1.1" 200 -
172.17.0.2 - - [25/Oct/2023 11:45:28] "GET /static/css/job-portal-1.1.css" 404 -
172.17.0.2 - - [25/Oct/2023 11:45:29] "GET /static/js/job-portal-1.1.js" 404 -

```





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Aboutus

Mission

SMARTBRIDGE is an edtech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry-level engineers, for the corporate world..

Vision

Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. Smartbridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.

Objective

Well directed career guidance programs for educational institutions. Appropriate certification courses that suit the industry need. Train the trainers; expanded awareness about the current industry standards. Liaise with corporates to offer niche internships. Establish technology development centers in colleges. Specialised incubation centers in collaboration with corporates.

JobPortal

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Question 4:

4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and expose the same app to run in node port.

