

Assignment -4

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|---------------------|-----------------|
| Assignment Date | 10 October 2022 |
| Student Name | ANITHA M |
| Student Roll Number | 814619104001 |
| 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. On the left, there's a sidebar with a timer at 03:57:55, a 'CLOSE SESSION' button, and an 'Instances' section showing a single instance '192.168.0.28 root1'. The main area displays details for the container 'cdp7fp79_cdp7fsu0qau000bpngug', including its IP (192.168.0.28), memory usage (1.62%), CPU usage (0.94%), and an SSH command. Below this, a terminal window shows the following commands and output:

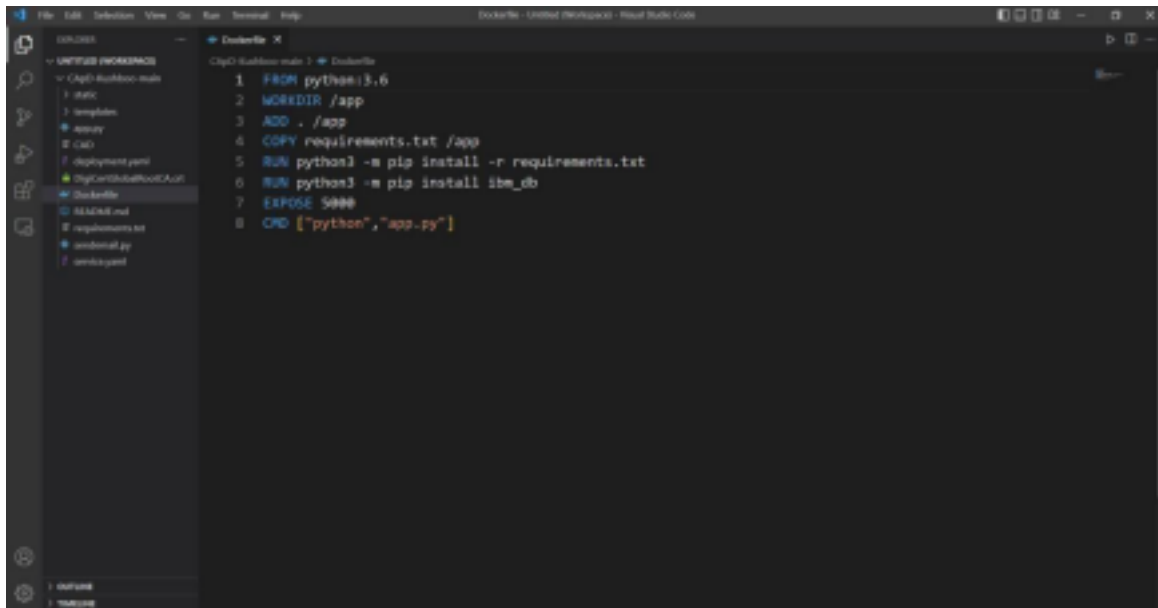
```

# The SWD team.
[rook1] (local) root@192.168.0.28 ~
$ docker pull uifd/ui-for-docker
Pulling from uifd/ui-for-docker
latest: Pulling from uifd/ui-for-docker
841194d099c8: Pull complete
Digest: sha256:fe371ff3a5349269b24073a5ab1244d0c0b034bade244870572193b1ch749
Status: Downloaded newer image for 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 ~

```

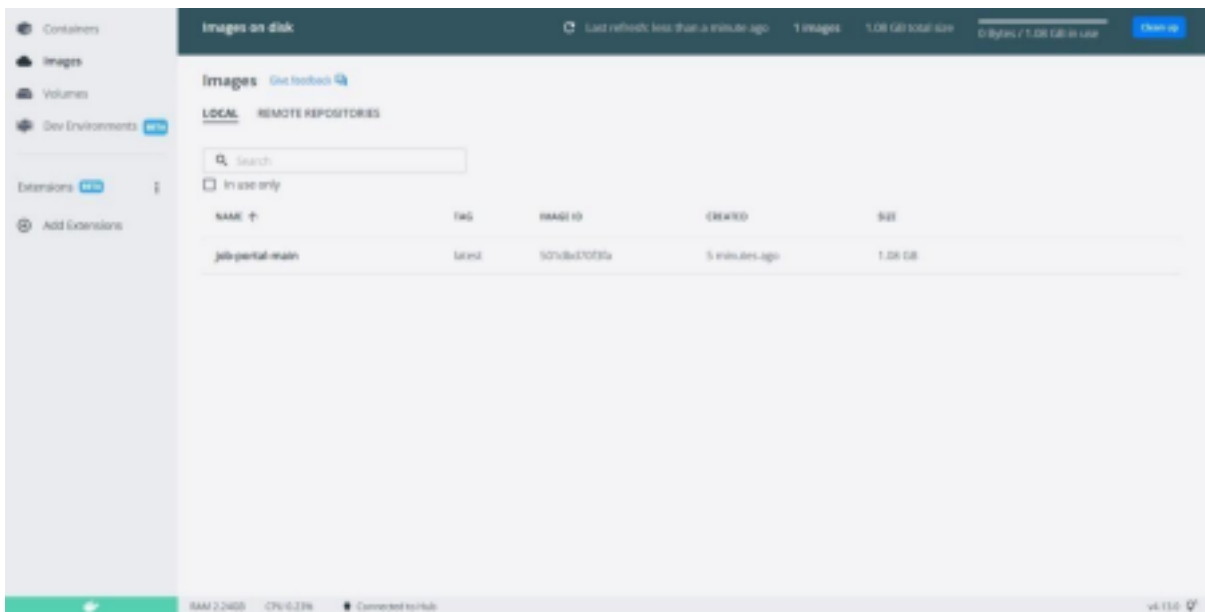
Question 2:

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 file explorer on the left shows a project structure with a 'Dockerfile' file. The Dockerfile content is as follows:

```
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

| Repository/digest | Tags | Manifest type | Created | Size | Security status |
|---|------|---------------|-----------|--------|-----------------|
| job-post-td-app/test@sha256:ca66688a6a72... | | Docker | 1 day ago | 435 MB | 99 issues |

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[11, 17, 18, 19] – [23/Nov/2002 11:40:21] %d/ %s

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.

