

Assignment -4

Assignment Date	07 October 2022
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Maximum Marks	2 Marks

Question 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 URL is https://labs.play-with-docker.com/p/cdmv1863tccg009qe7og#cdmv1863_cdmv9bu3tccg009qe83g. The interface displays a terminal window with the following output:

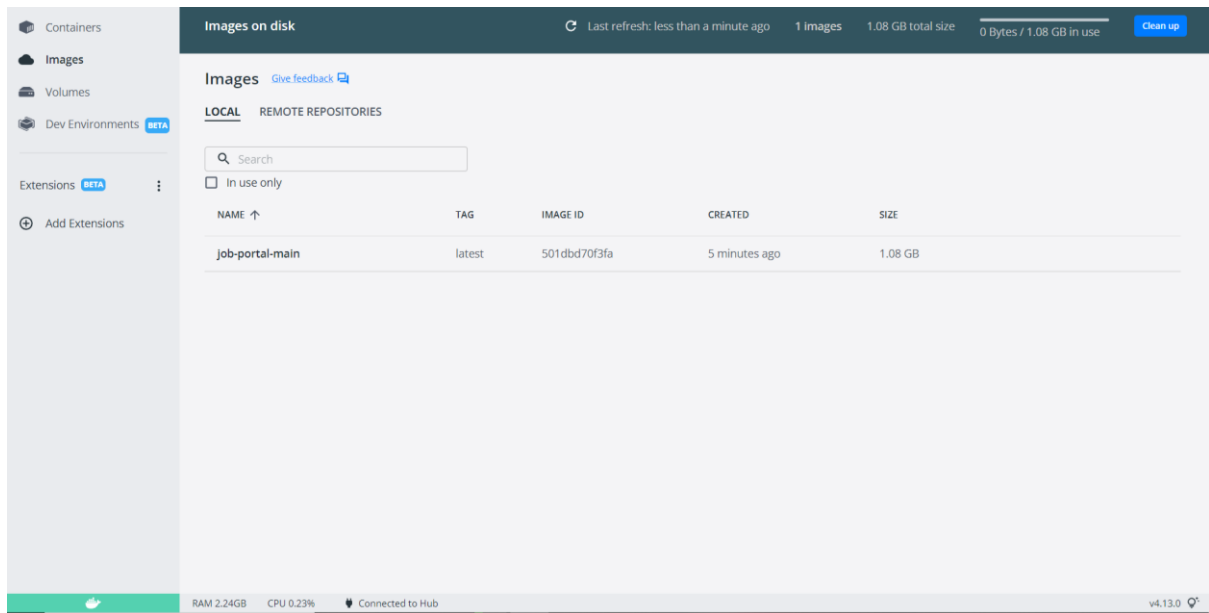
```
##### WARNING!!!! #####
# This is a sandbox environment. Using personal credentials #
# is HIGHLY! discouraged. Any consequences of doing so are #
# completely the user's responsibilities. #
# The PWD team. #
#####
[node1] (local) root@192.168.0.18 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.18 ~
$
```

Question 2:

Create a docker file for the jobportal application and deploy it in Docker desktop application.

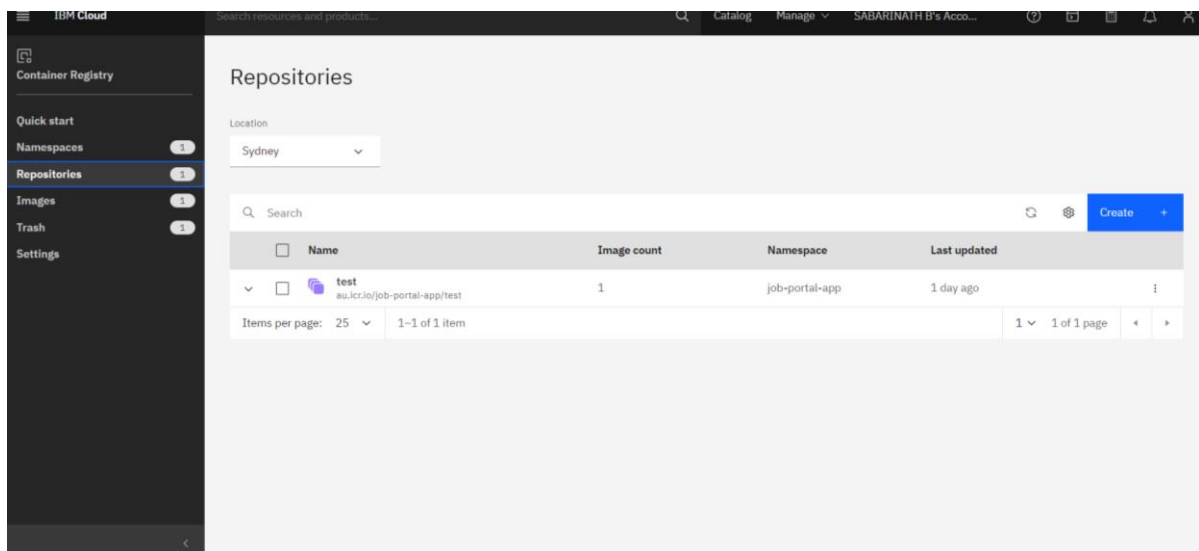
The screenshot shows the Visual Studio Code editor with a Dockerfile for a Python application. The Dockerfile content is as follows:

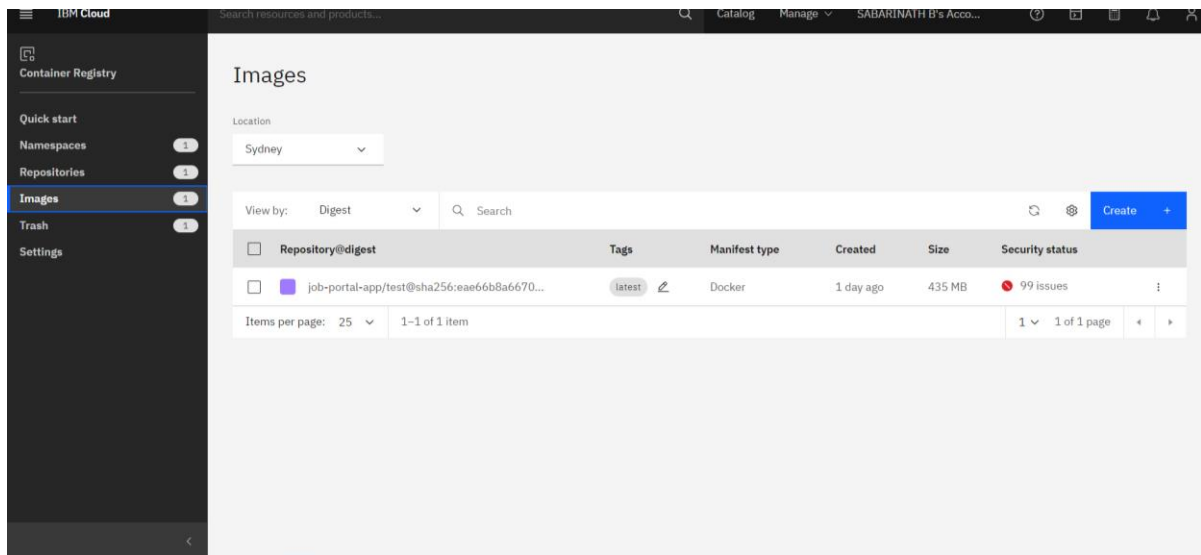
```
1 FROM python:3.6
2 WORKDIR /app
3 ADD . /app
4 COPY requirements.txt /app
5 RUN python3 -m pip install -r requirements.txt
6 RUN python3 -m pip install ibm_db
7 EXPOSE 5000
8 CMD ["python", "app.py"]
```



Question 3:

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





```
Command Prompt - docker run -p 5000:5000 au.icr.io/job-portal-app/test

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

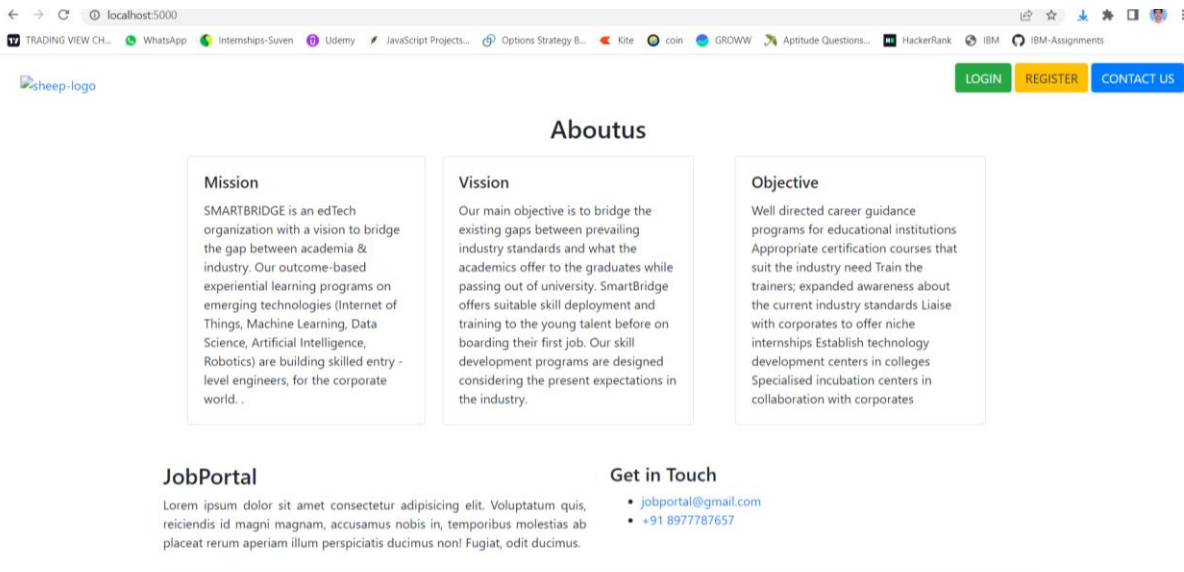
Usage: docker push [OPTIONS] NAME[:TAG]
Push an image or a repository to a registry

C:\Users\user>docker tag job-portal-main au.icr.io/job-portal-app/test

C:\Users\user>docker push au.icr.io/job-portal-app/test
Using default tag: latest
The push refers to repository [au.icr.io/job-portal-app/test]
90f7c020340: Mounted from job-portal-app/testrepo
5eb33c3fabb: Mounted from job-portal-app/testrepo
4667e693b201: Mounted from job-portal-app/testrepo
a34f7e8dcb45: Mounted from job-portal-app/testrepo
789453578d11: Mounted from job-portal-app/testrepo
6a8c080c19f6: Mounted from job-portal-app/testrepo
8ba9f690e8ba: Mounted from job-portal-app/testrepo
3e607d59ef9f: Mounted from job-portal-app/testrepo
1e18e7e1fcc2: Mounted from job-portal-app/testrepo
c3a6d593ed24: Mounted from job-portal-app/testrepo
26a504e03be4: Mounted from job-portal-app/testrepo
8bf42bb0de72: Mounted from job-portal-app/testrepo
31892cc314cb: Mounted from job-portal-app/testrepo
11936051f93b: Mounted from job-portal-app/testrepo
latest: digest: sha256:eae66b8a6670d0f8fa8fab20d08acc277b93348a54e0755caa586242ba2c01b size: 3259

C:\Users\user>docker pull au.icr.io/job-portal-app/test
Using default tag: latest
latest: Pulling from job-portal-app/test
Digest: sha256:eae66b8a6670d0f8fa8fab20d08acc277b93348a54e0755caa586242ba2c01b
Status: Image is up to date for au.icr.io/job-portal-app/test:latest
au.icr.io/job-portal-app/test:latest

C:\Users\user>docker run -p 5000:5000 au.icr.io/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)
172.17.0.1 - - [27/Oct/2022 13:43:20] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [27/Oct/2022 13:43:20] "GET /css/style.css HTTP/1.1" 404 -
172.17.0.1 - - [27/Oct/2022 13:43:21] "GET /static/img/smartinternz.png HTTP/1.1" 404 -
172.17.0.1 - - [27/Oct/2022 13:43:21] "GET /assets/img/favicon-32x32.png HTTP/1.1" 404 -
```



Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

