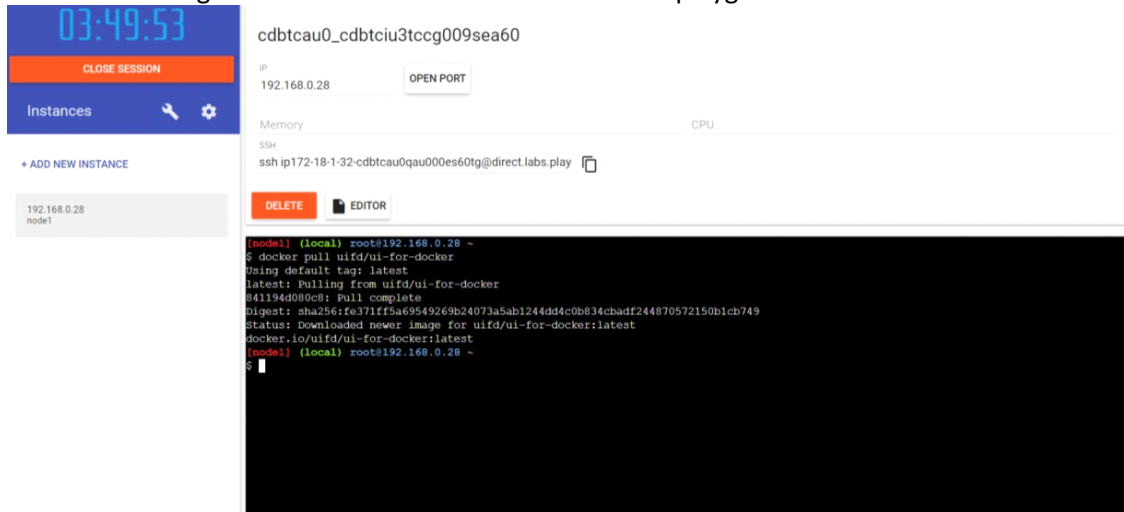


Assignment -4

Assignment Date	03 NOVEMBER 2022
Student Name	DINESH S
Team ID	PNT2022TMID42524
Maximum Marks	2 Marks

Question 1:

- Pull an Image from docker hub and run it in docker playground

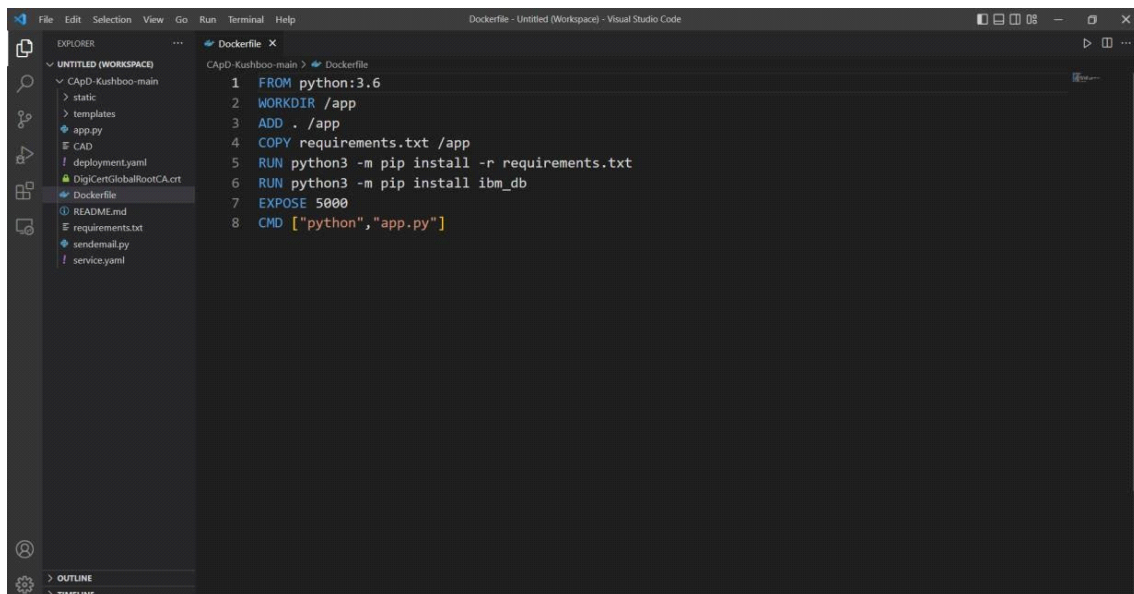


The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:49:53, a 'CLOSE SESSION' button, and an 'Instances' section with a list of instances including '192.168.0.28 node1'. The main area displays the instance details for 'cdbtcu0_cdbtcui3tccg009sea60', including its IP (192.168.0.28), memory, CPU, and an SSH command. Below this, there's a terminal window showing the following commands and output:

```
[node1] (local) root@192.168.0.28 ~
$ 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@192.168.0.28 ~
$
```

Question 2:

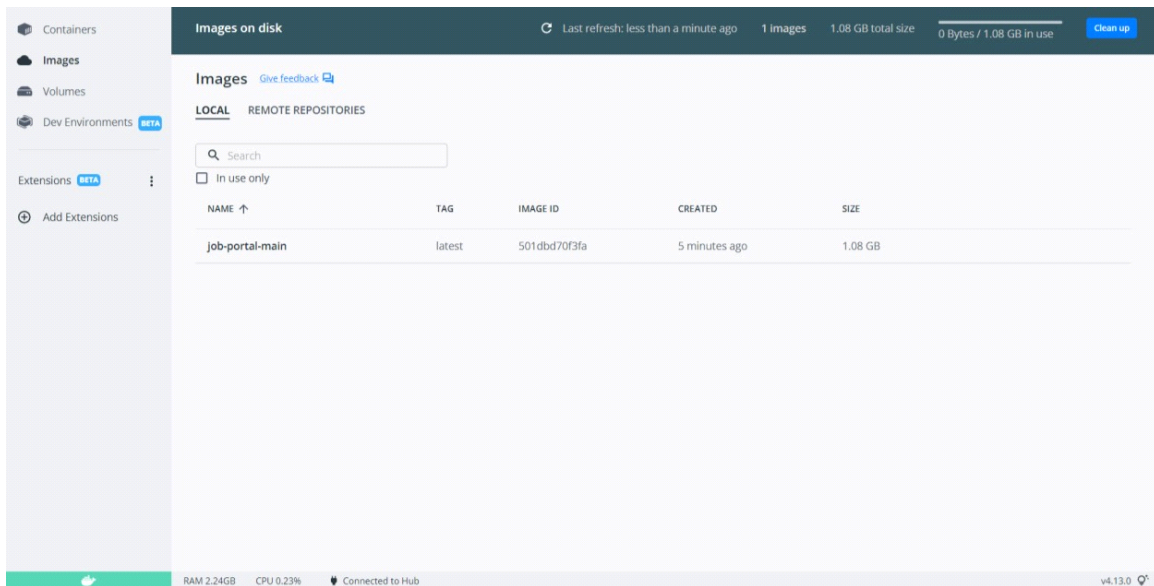
- Create a docker file for the jobportal application and deploy it in Docker desktop application.



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

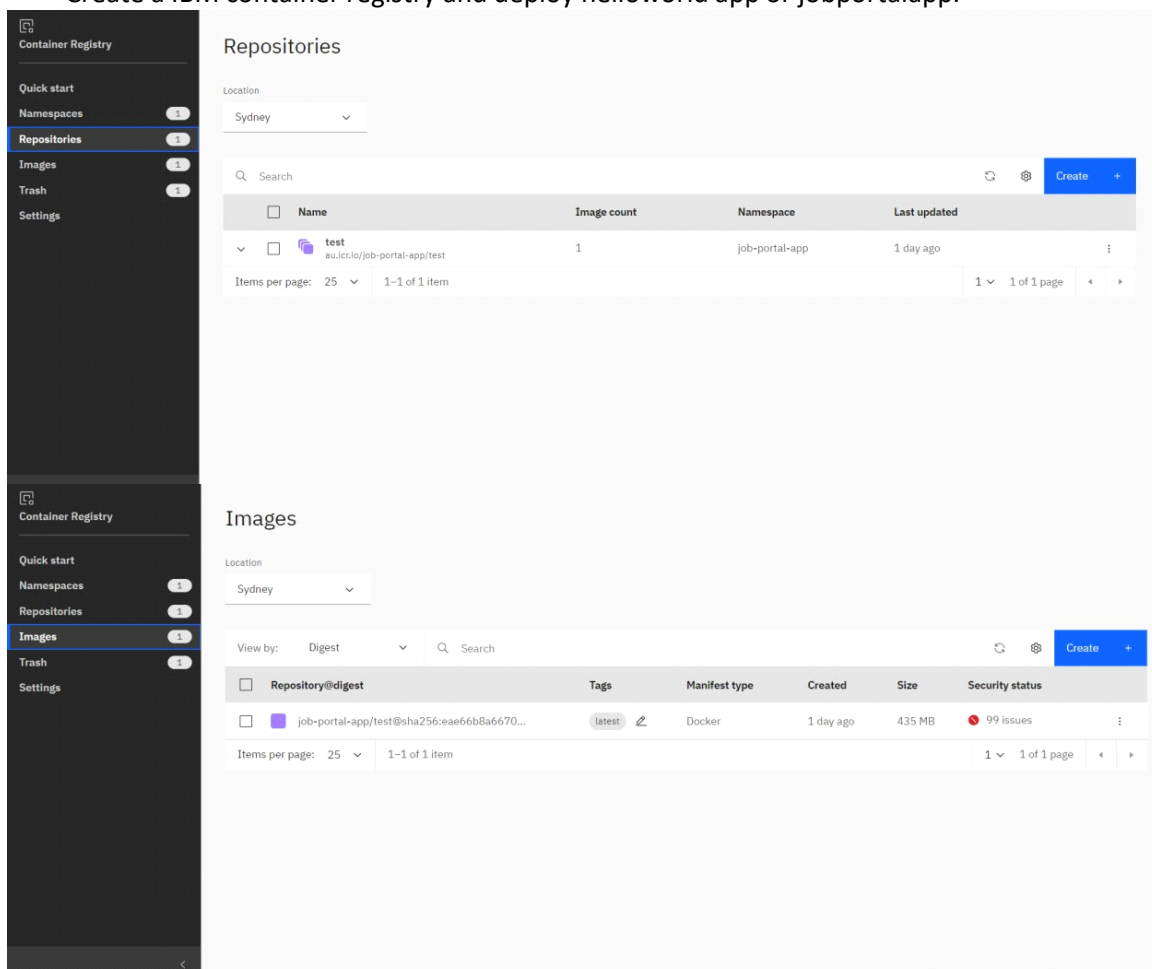
```
1 FROM python:3.6
2 WORKDIR /app
3 ADD . /app
4 COPY requirements.txt /app
5 RUN python3 -m pip install -r requirements.txt
6 RUN python3 -m pip install ibm_db
7 EXPOSE 5000
8 CMD ["python", "app.py"]
```

The Explorer sidebar on the left shows the project structure, including files like 'static', 'templates', 'app.py', 'deployment.yaml', 'Dockerfile', 'README.md', 'requirements.txt', 'sendemail.py', and 'service.yaml'.



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]
20ff7c20240b: Mounted from job-portal-app/testrepo
3eb3c3cf40b: Mounted from job-portal-app/testrepo
4667e693b201: Mounted from job-portal-app/testrepo
a34f7e86cb45: Mounted from job-portal-app/testrepo
70a45357d11e: Mounted from job-portal-app/testrepo
aad4808c19f6: Mounted from job-portal-app/testrepo
8ba9f690e8ba: Mounted from job-portal-app/testrepo
3e607d59ef9f: Mounted from job-portal-app/testrepo
1a10e7a1fc22: Mounted from job-portal-app/testrepo
c3a0d593ed24: Mounted from job-portal-app/testrepo
26a504e63be4: Mounted from job-portal-app/testrepo
8bf42db4de72: Mounted from job-portal-app/testrepo
31802c314eb: Mounted from job-portal-app/testrepo
11936051f93b: Mounted from job-portal-app/testrepo
latest: digest: sha256:eae6b8a6670d9f8f4a8f4b20d08acc277b93348a54e0755caa586242ba2c01b 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:eae6b8a6670d9f8f4a8f4b20d08acc277b93348a54e0755caa586242ba2c01b
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
  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 -
```



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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. .

Vission

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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Get in Touch

- jobportal@gmail.com
- +91 8977787657

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.

Clusters / mycluster-free Normal Expires in 30 days Add tags

Help Kubernetes dashboard Actions...

Overview

Worker nodes

Worker pools

DevOps new

Expires in 30 days: Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a standard cluster.

Node status 1 of 1 Normal Details

Add-on status 0 of 0 Normal Details

Master status Normal Docs

Ingress status Unknown Docs

Details

Cluster ID cdd9137f80hzksau5200

Version 1.23.13_1550

Infrastructure Classic

Zones Milan 01

Created 27/10/2022, 7:37 pm

Resource group Default

Image security enforcement Enable

Node health

Worker node details



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Lorem ipsum dolor sit amet consectetur adipisicing elit. Voluptatum quis, reiciendis id magni magnam, accusamus nobis in, temporibus molestias ab placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.

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