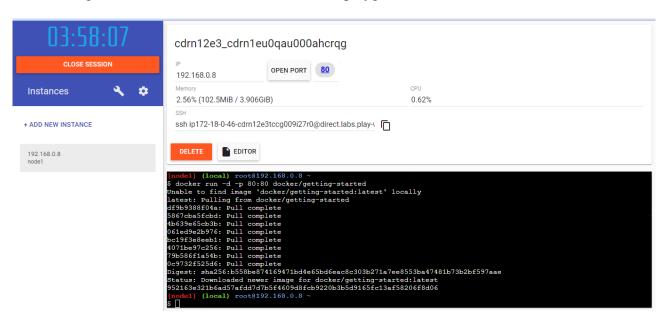
Assignment - 4

Assignment Date	9 September 2022
Student Name	Arul Jeshin A
Student Roll Number	111519205001
Maximum Marks	2 Marks

Question 1:

Pull an image from docker hub and run it in docker playground.



C\Windows\System32\cmd.exe		
Microsoft Windows [Version 10.0.22000.1219]		
(c) Microsoft Corporation. All rights reserved.		
<pre>f:\flask\flask_with_form_and_docker-main>docker build -t imageone .</pre>		
[+] Building 6.2s (10/10) FINISHED		
-> [internal] load build definition from Dockerfile		
=> => transferring dockerfile: 32B		
=> [internal] load .dockerignore		
-> -> transferring context: 28		
=> [internal] load metadata for docker.io/library/python:3.10.6		
=> [1/5] FROM docker.io/library/python:3.10.6@sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a248d29677cb03e6a		
-> [internal] load build context		
=> => transferring context: 6898 => CACHED [2/5] WORKDIR /app		
-> CACHED [3/5] COPY requirements.txt ./		
=> CACHED [4/5] RUN pip install -r requirements.txt		
⇒ CACHED [5/5] COPY		
-> exporting to image		
=> => exporting layers		
-> -> writing layers -> -> writing lange sha258:7e55d55d19ab18c700fa28c2673b59f5ba765c7da358f28baf435f46de0a8e75		
=> => naming to docker.io/library/inageone		

Question 2:

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

DOCKERFILE:

```
FROM python:3.8-buster

WORKDIR /app

COPY requirements.txt /app/

RUN pip install -r requirements.txt

COPY . /app/

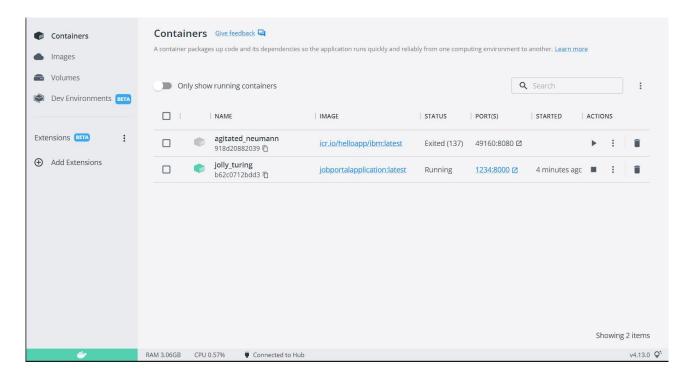
RUN cp .env.dev.sample .env

EXPOSE 8808

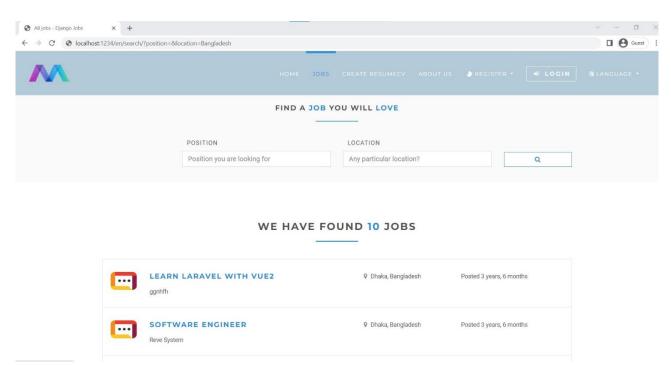
RUN chmod +x entrypoint.sh

CMD ["sh", "entrypoint.sh"]
```

DEPLOYMENT OF JOBPORTAL APPLICATION:



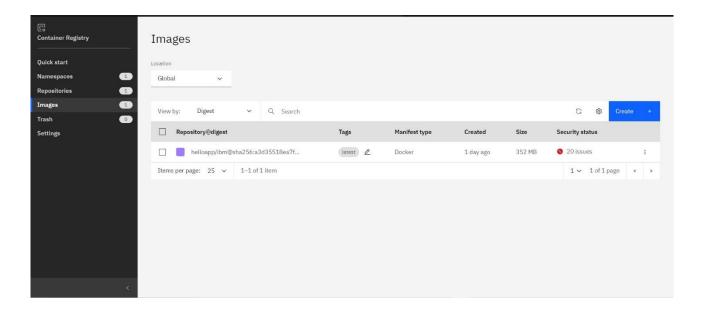
OUTPUT:



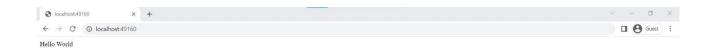
Question 3:

Create a IBM container registry and deploy hello world app or job portal app.

IBM CONTAINER REGISTRY DEPLOYMENT:



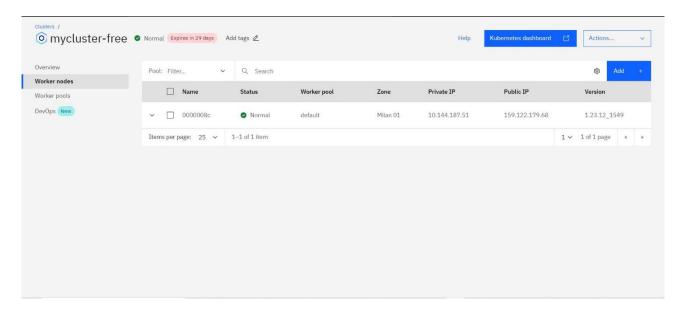
OUTPUT:



Question 4:

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

Creating kubernetes cluster in IBM cloud and exposing nodeport:



Output:

