

Assignment -4

Student Name	Sarankumar N
Student Roll Number	737819ECR166
Maximum Marks	2 Marks

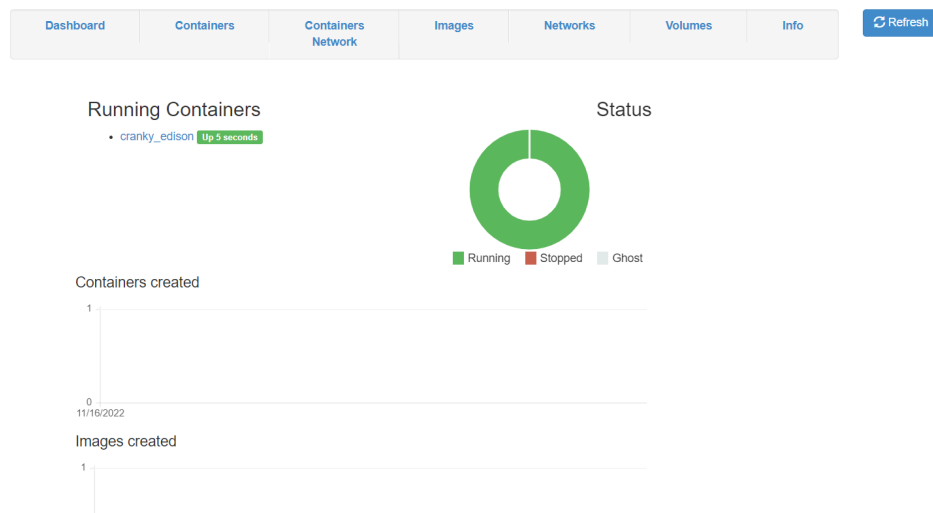
Question 1

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

```
#####  
# WARNING!!!!  
# This is a sandbox environment. Using personal credentials  
# is HIGHLY! discouraged. Any consequences of doing so are  
# completely the user's responsibilities.  
#  
# The FWD team.  
#####  
[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:fe371ff5a69549269b24073a5ab1244dd4c0b83cbadf244870572150b1cb749  
Status: Downloaded newer image for uifd/ui-for-docker:latest  
docker.io/uifd/ui-for-docker:latest  
[node1] (local) root@192.168.0.28 ~  
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker  
2f4b811f18eacd99a993839621fcc9d140117f70616d283ec85352b32369b9f1
```

```
[node1] (local) root@192.168.0.28 ~  
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker  
2f4b811f18eacd99a993839621fcc9d140117f70616d283ec85352b32369b9f1  
[node1] (local) root@192.168.0.28 ~
```

UI For Docker



Question 2

Create a docker file for the job portal application and deploy it

From python:3.8-bluster

WORKDIR /app

COPY requirements.txt /app/

RUN pip install -r
requirements.py

COPY ./app/

RUN cp .env

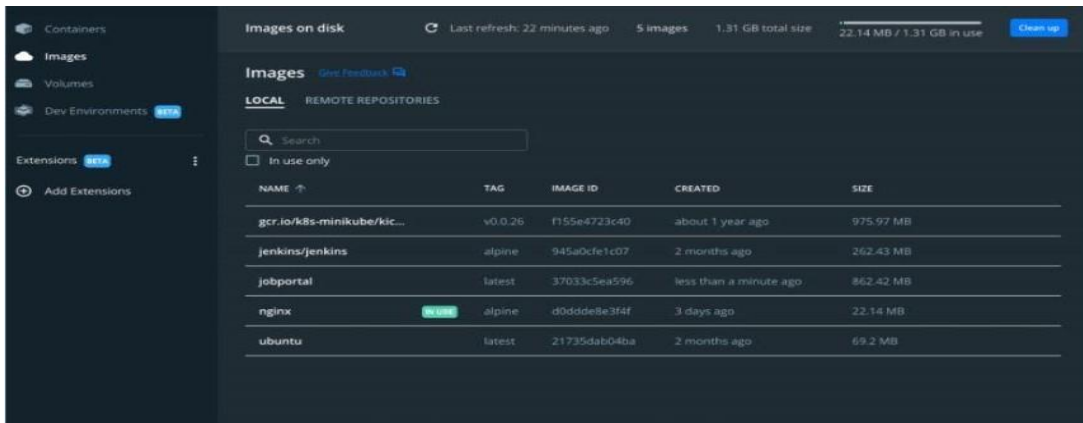
.env EXPOSE

5000

RUN chmod +x

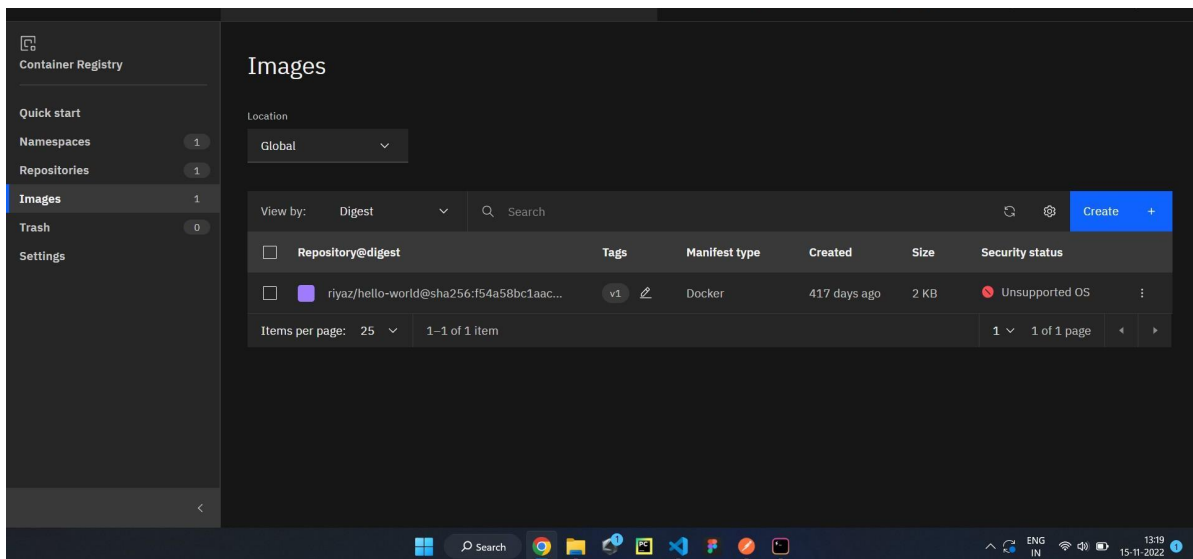
entrypoint.sh CMD ["sh",

"entrypoint.sh"]



Question 3

Create an IBM container repository and deploy HelloWorld



Question 4

Create a kubernetes cluster in ibm cloud and deploy helloworld image and also expose the same app to run in nodeport

The screenshot displays the IBM Cloud console interface for a Kubernetes cluster. The top navigation bar includes the IBM Cloud logo, a search bar, and user account information. The main header shows the cluster name 'mycluster-free' with a status of 'Normal' and an expiration notice 'Expires in 30 days'. A sidebar on the left contains navigation links for 'Overview', 'Worker nodes', 'Worker pools', and 'DevOps'. The 'Worker nodes' section is currently selected, displaying a table with one node.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
00000013	Normal	default	Milan 01	10.144.217.44	159.122.178.187	1.24.7_1543

At the bottom of the table, it indicates 'Items per page: 25' and '1-1 of 1 item'.