

Assignment -4

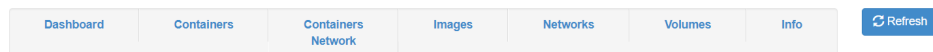
Student Name	Ragul R
Student Roll Number	737819ECR133
Maximum Marks	2 Marks

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 PWD team. #  
#####  
[node1] (local) root@192.168.0.8 ~  
$ 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@192.168.0.8 ~  
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker  
933241569d4bc78573dece260360bd8f7c53d81692bdb730741d6201988ef4fd  
[node1] (local) root@192.168.0.8 ~
```

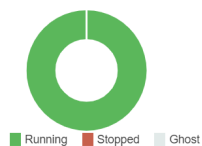
UI For Docker



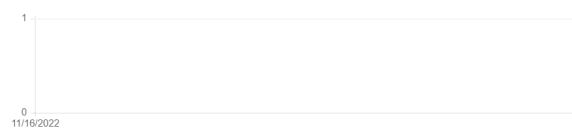
Running Containers

• eager_ferml Up About a minute

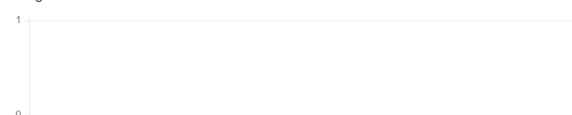
Status



Containers created



Images created



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

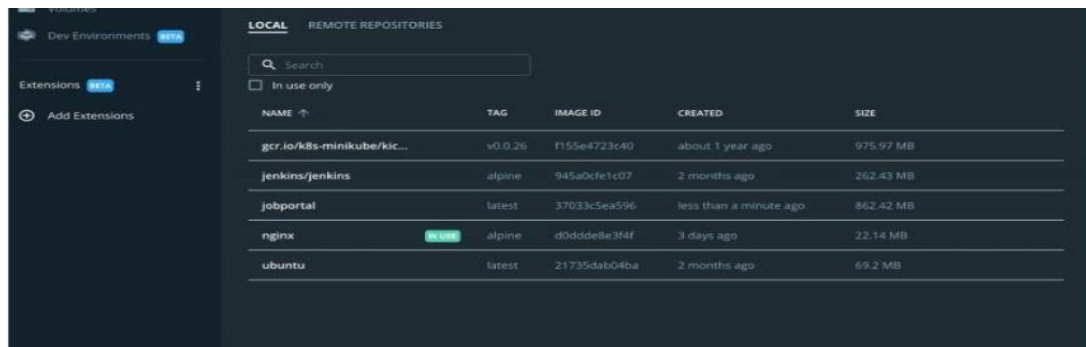
.env EXPOSE

5000

RUN chmod +x

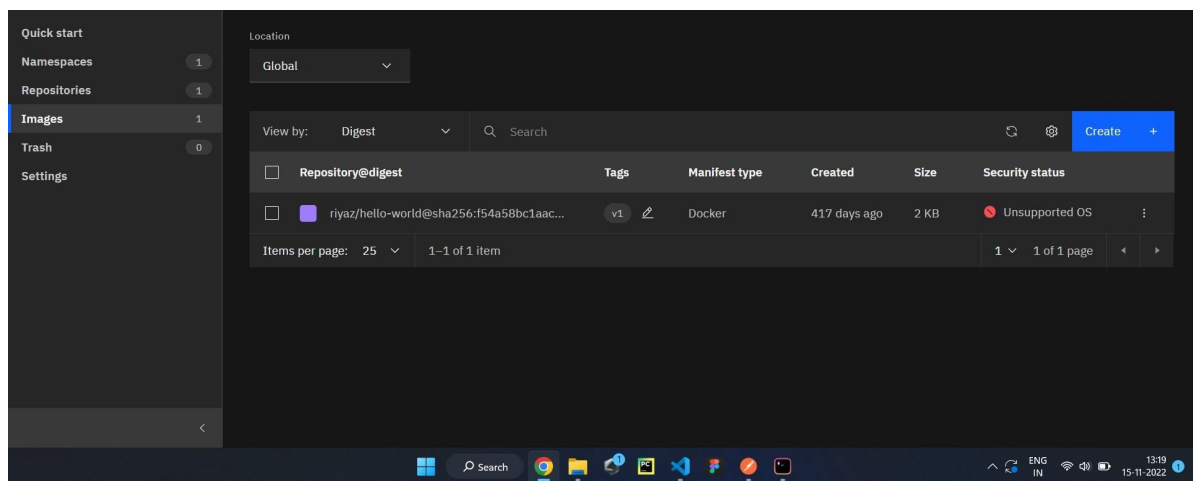
entrypoint.sh CMD ["sh",

"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

Clusters /

mycluster-free

Normal

Expires in 30 days

Add tags

Help

Kubernetes dashboard

Actions...

Overview

Worker nodes

Worker pools

DevOps New

Pool: Filter...

Search

Add

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

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