Assignment -4

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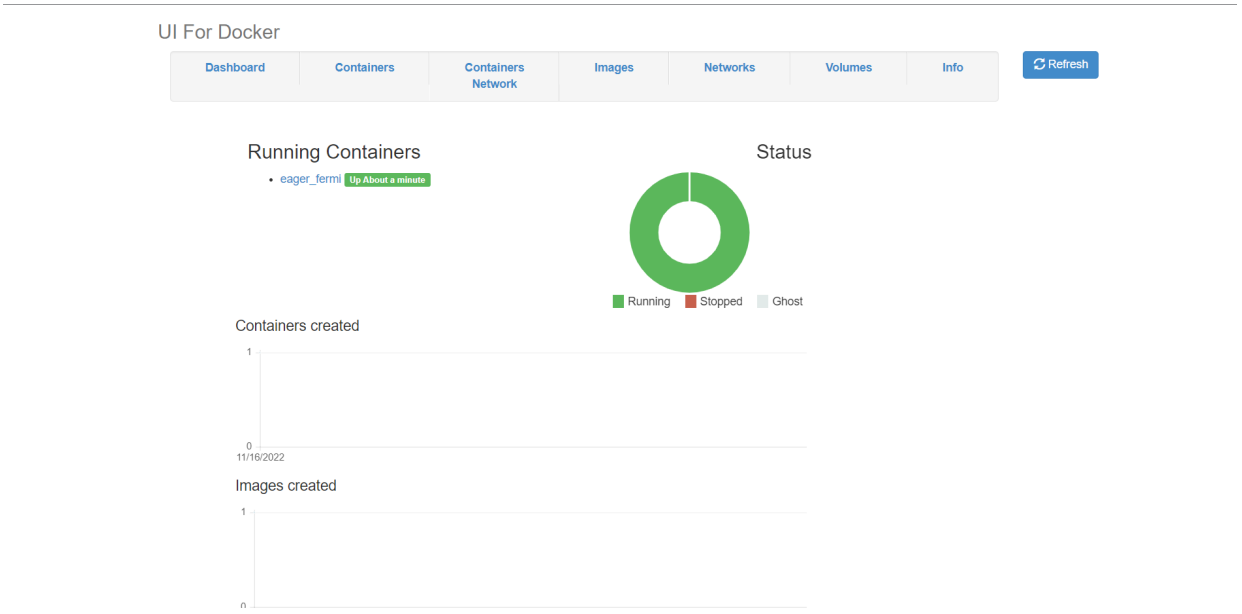
Maximum Marks	2 Marks

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 responsibilites.                   #
#                                                          #
# 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 ~
```



Question 2

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

From python:3.8-bluster

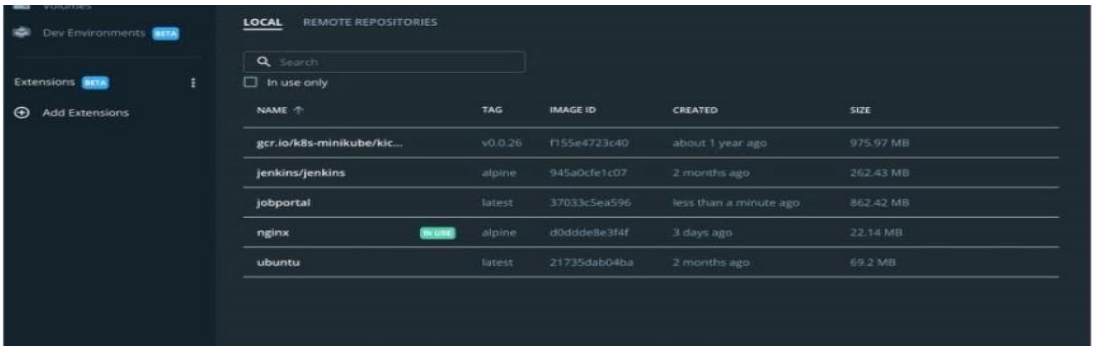
WORKDIR /app

COPY requirements.txt /app/
RUN pip install -r
requirements.py

COPY ./app/
RUN cp .env
.env EXPOSE
5000
RUN chmod +x

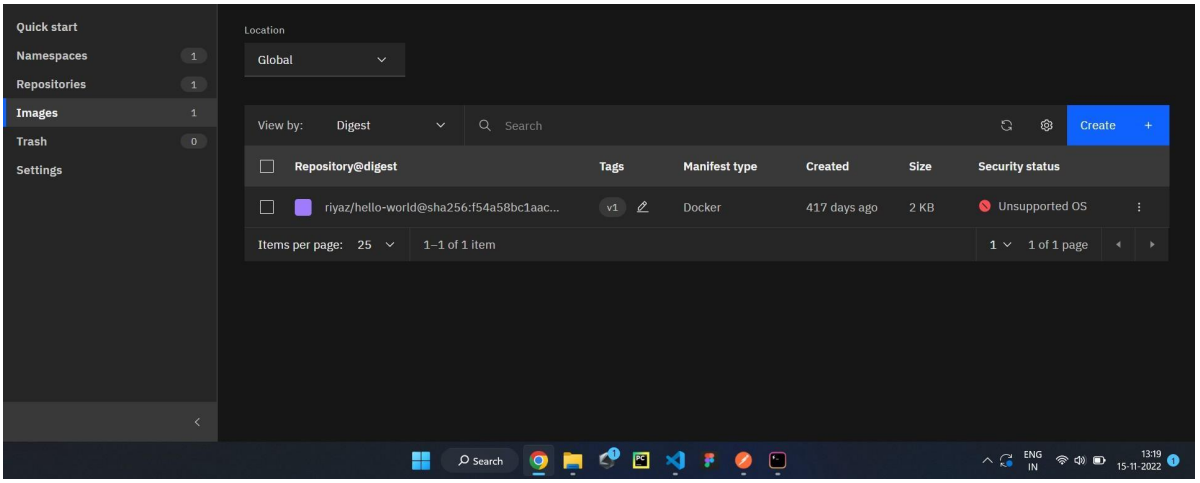
entrypoint.sh CMD [“sh”,

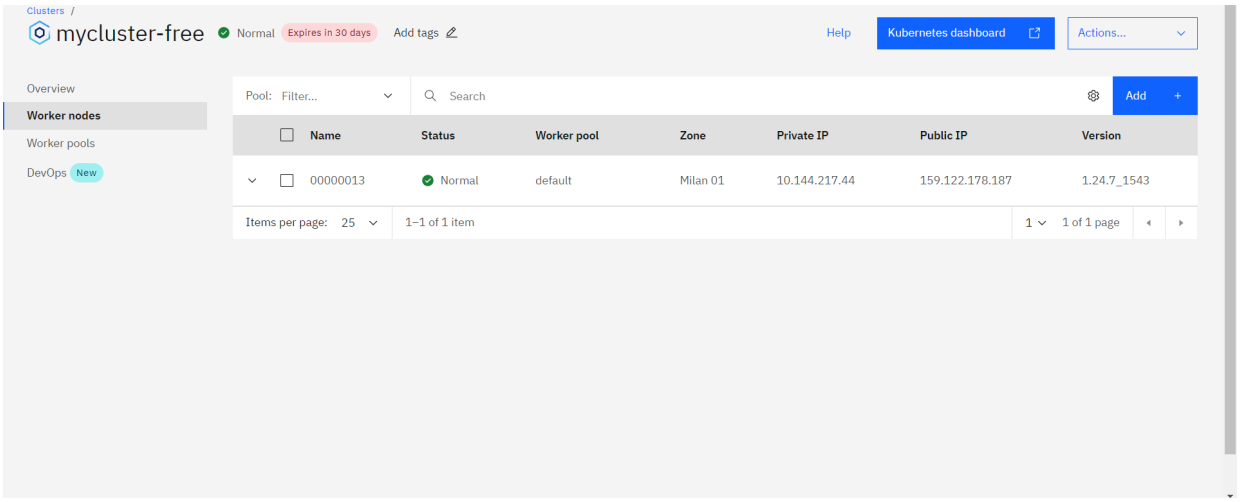
“entrypoint.sh”]



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