ASSIGNMENT 4

Project Name	**Plasma Donor Application**
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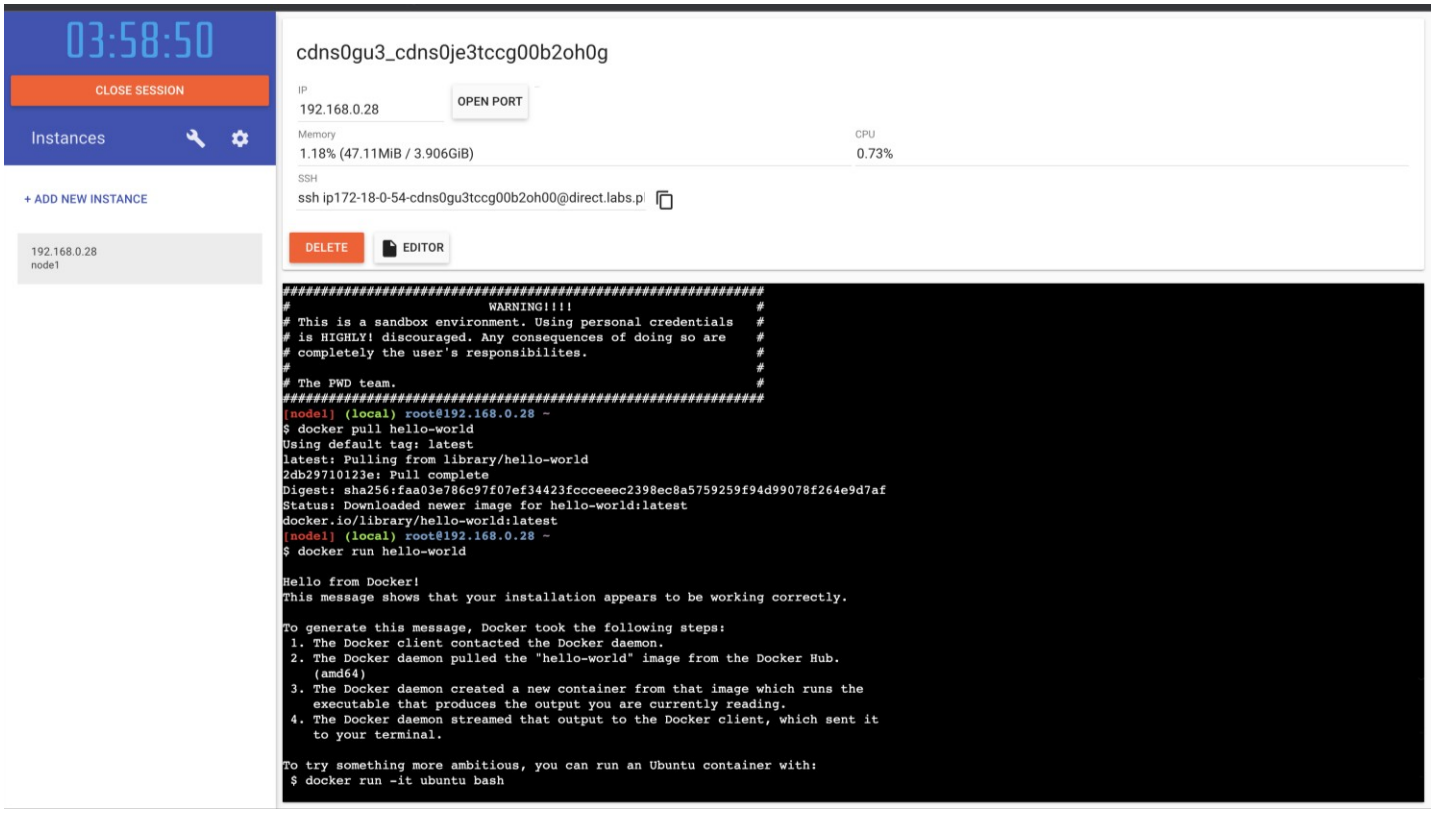
1. Pull an Image from docker hub and run it in docker playground.



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

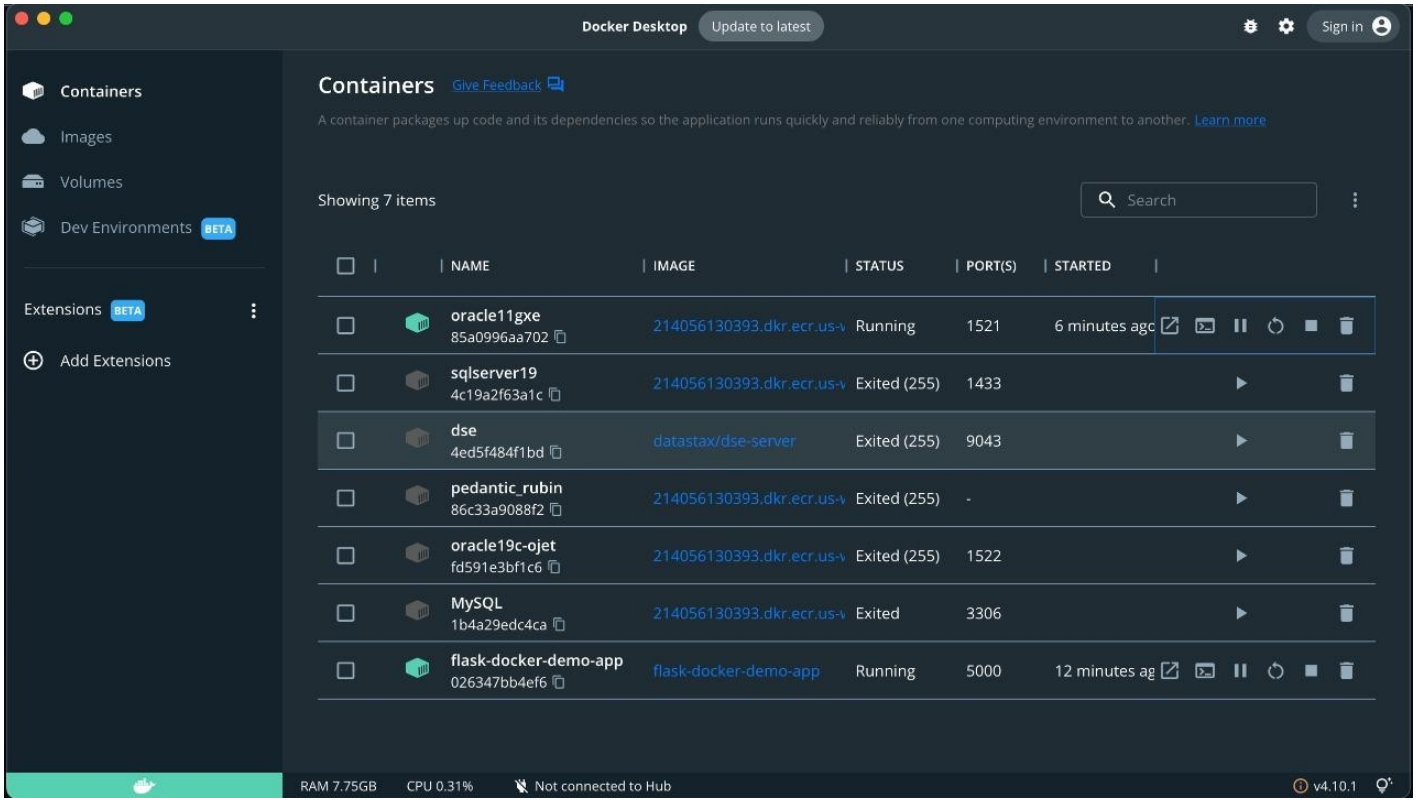
Docker file:

Get Started | model.py | controller.py | Dockerfile

Dockerfile

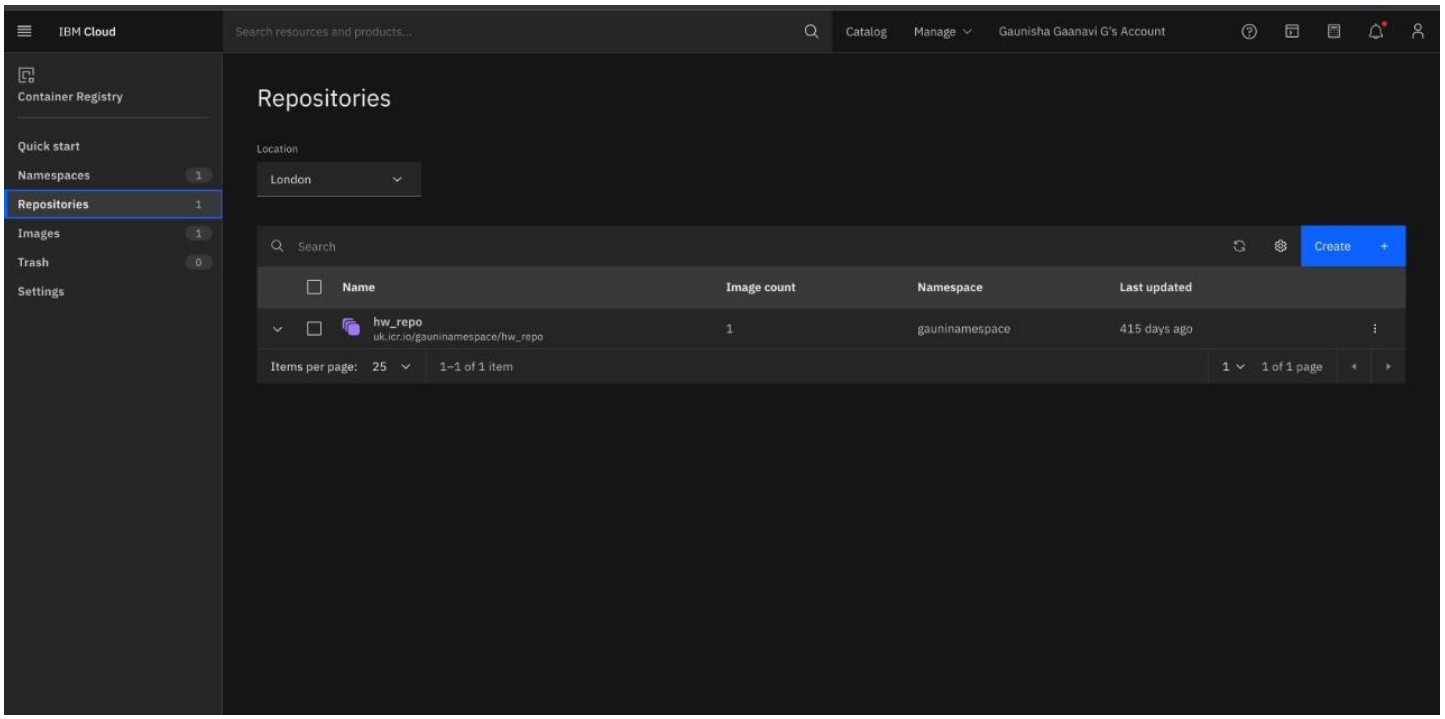
```
1   FROM python:3.10
2   LABEL maintainer="ibmteam, ibmteam@gmail.com"
3   RUN apt-get update
4   RUN mkdir /app
5   WORKDIR /app
6   COPY . /app
7   RUN pip install -r requirements.txt
8   EXPOSE 5000
9   ENTRYPOINT [ "python" ]
10  CMD [ "controller.py" ]
```

Deployment of job portal application:



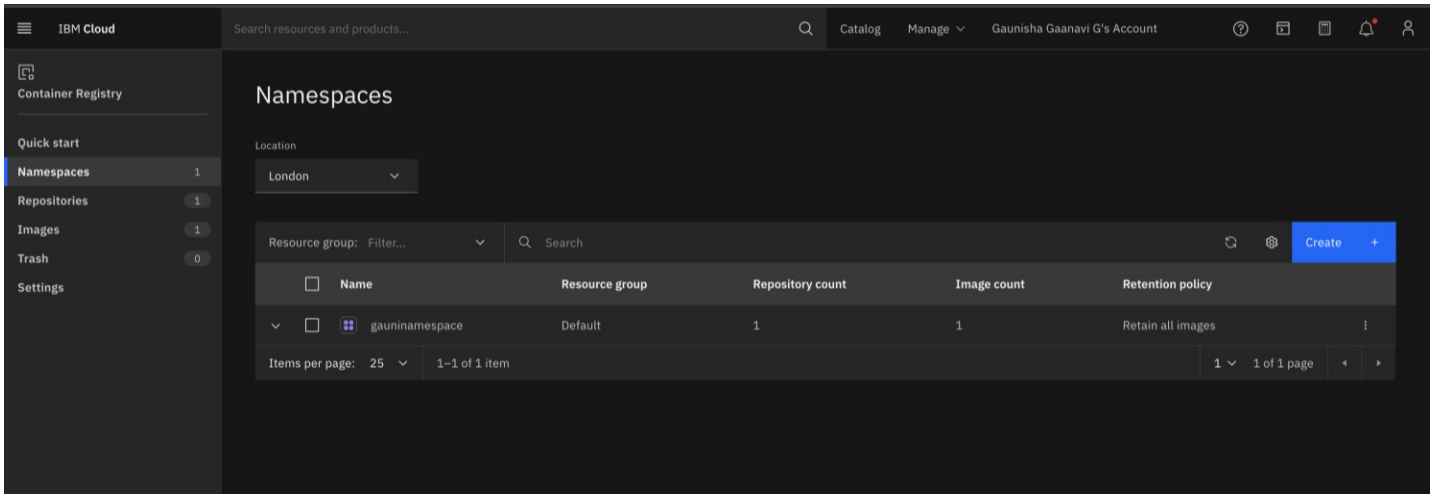
Output:

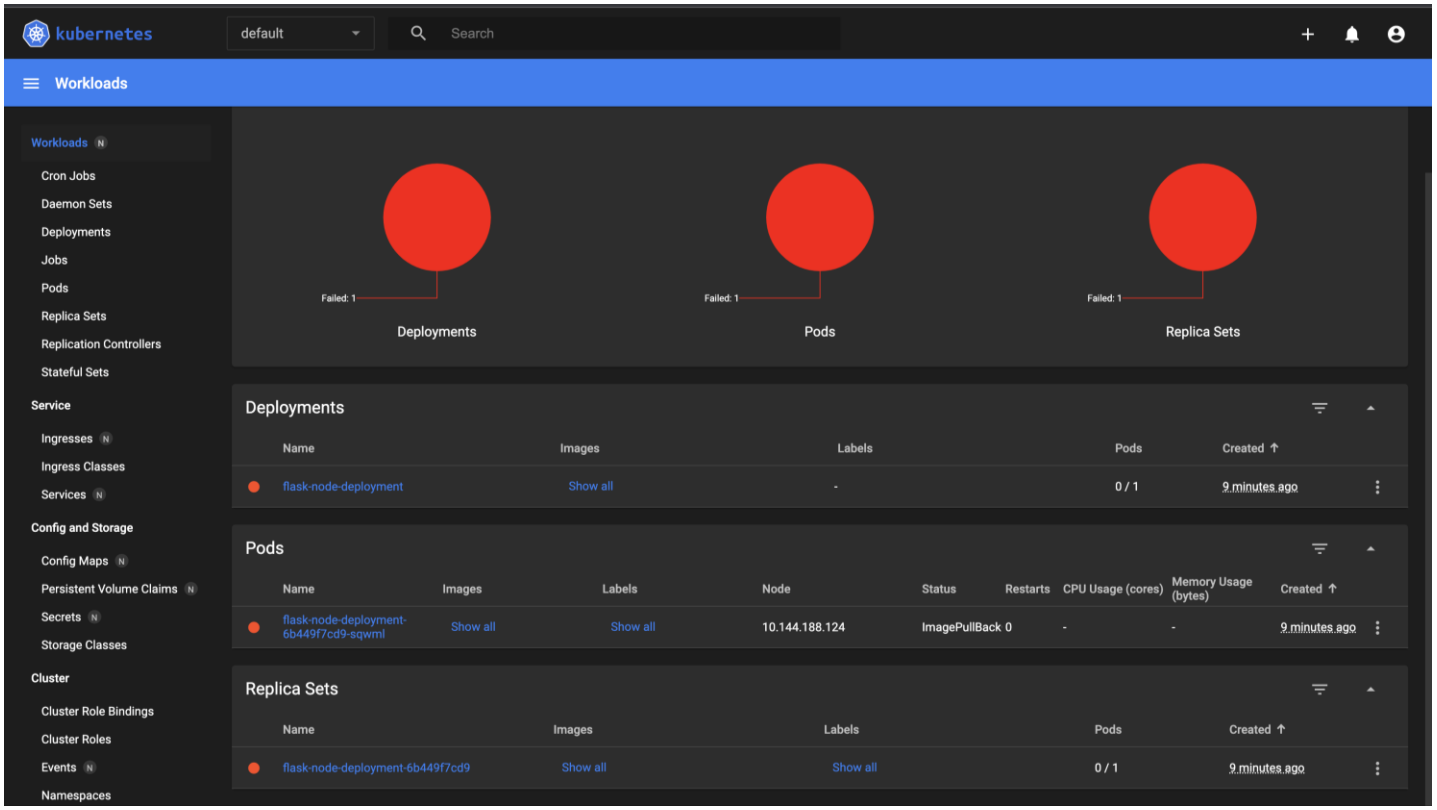
3. Create a IBM container registry and deploy helloworld app or jobportalapp.IBM container registry:



OUTPUT:

4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportalimage and also expose the same app to run in nodeport.





OUTPUT: