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" ]
```
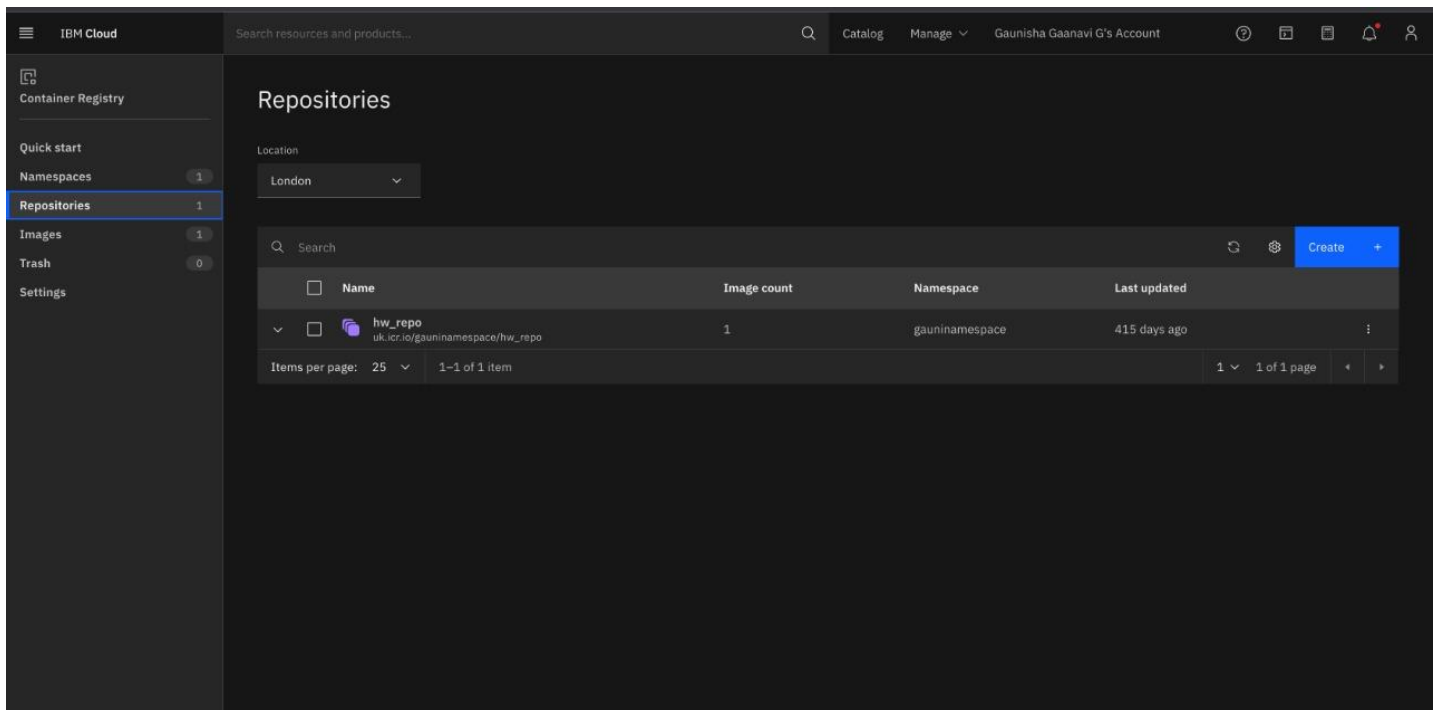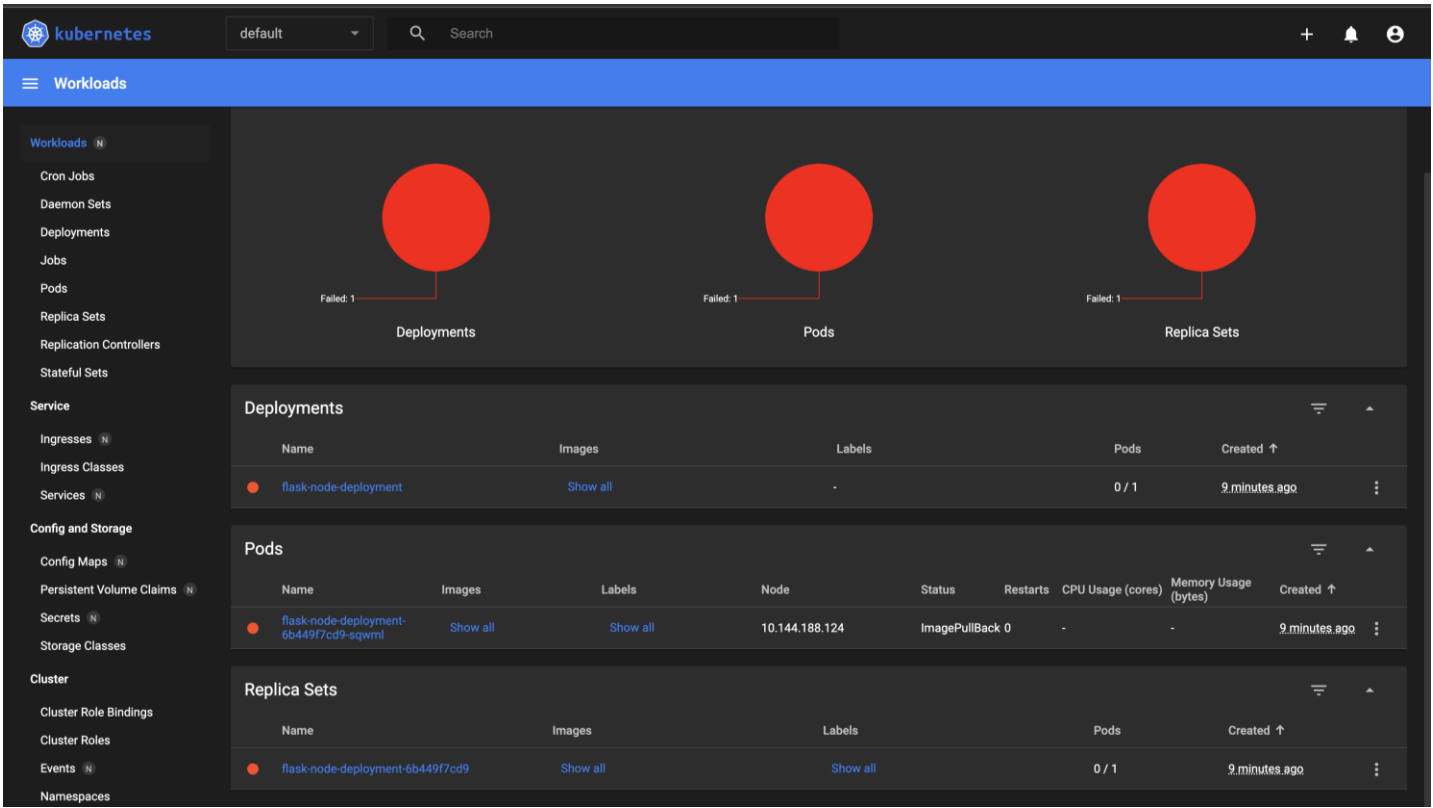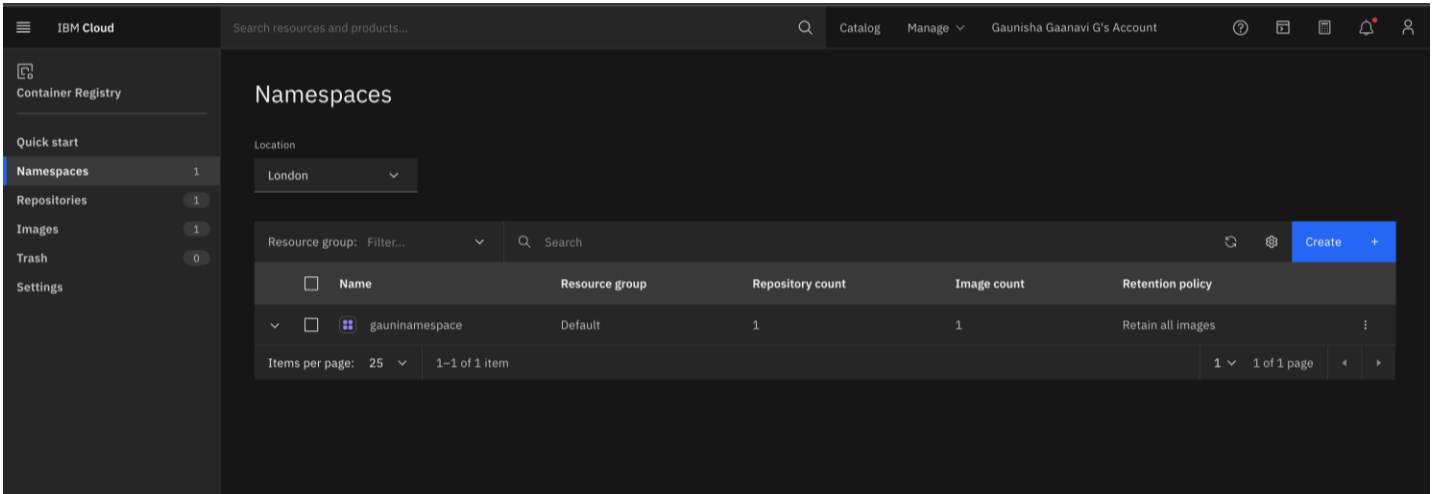
Deployment of job portal application:

Output:

Hello World!! Good evening!
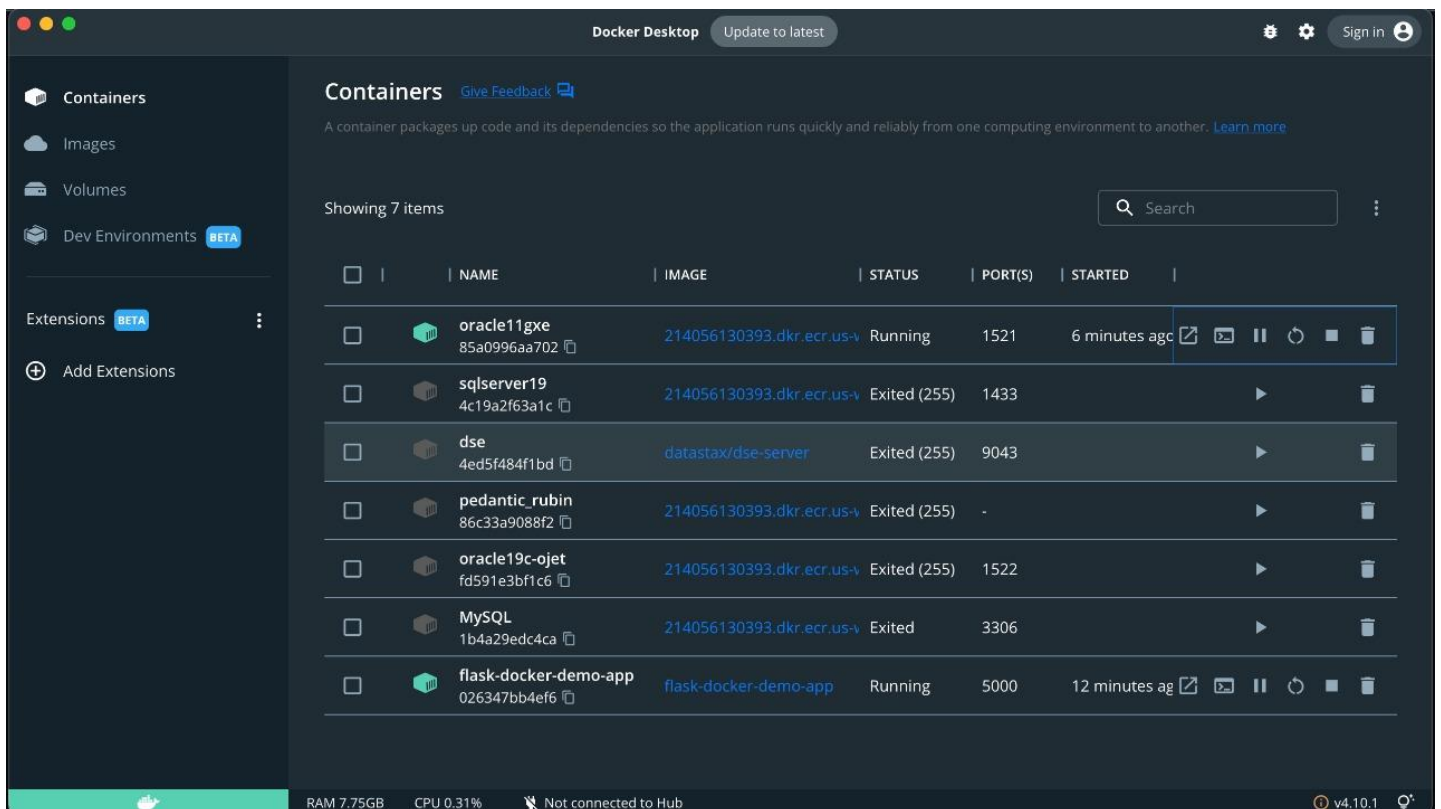
3. **Create a IBM container registry and deploy helloworld app or jobportalapp.IBM**

container registry:

OUTPUT:

Hello World!! Good evening!

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:

Hello World!! Good evening!