Question 1:

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

Question 2:

Create a docker file for the job portal application and deploy it in Docker desktop application.

```
1    FROM python:3.8-buster
2
3    WORKDIR /app
4
5    COPY requirements.txt /app/
6
7    RUN pip install -r requirements.txt
8
9    COPY . /app/
10
11   RUN cp .env.dev.sample .env
12
13   EXPOSE 8000
14
15   RUN chmod +x entrypoint.sh
16
17   CMD ["sh", "entrypoint.sh"]
```

DEPLOYMENT OF JOBPORTAL APPLICATION:

OUTPUT:

Question 3:

Create a IBM container registry and deploy hello world app or job port app.

IBM CONTAINER REGISTRY DEPLOYMENT:
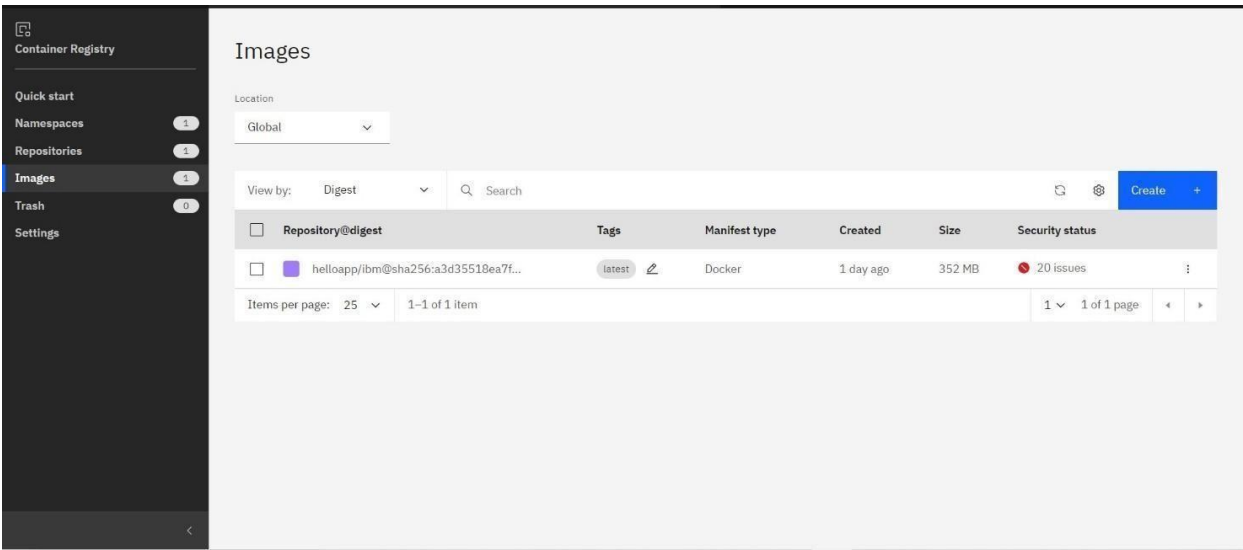
OUTPUT:

Question 4:

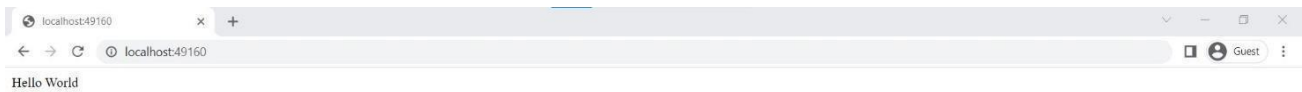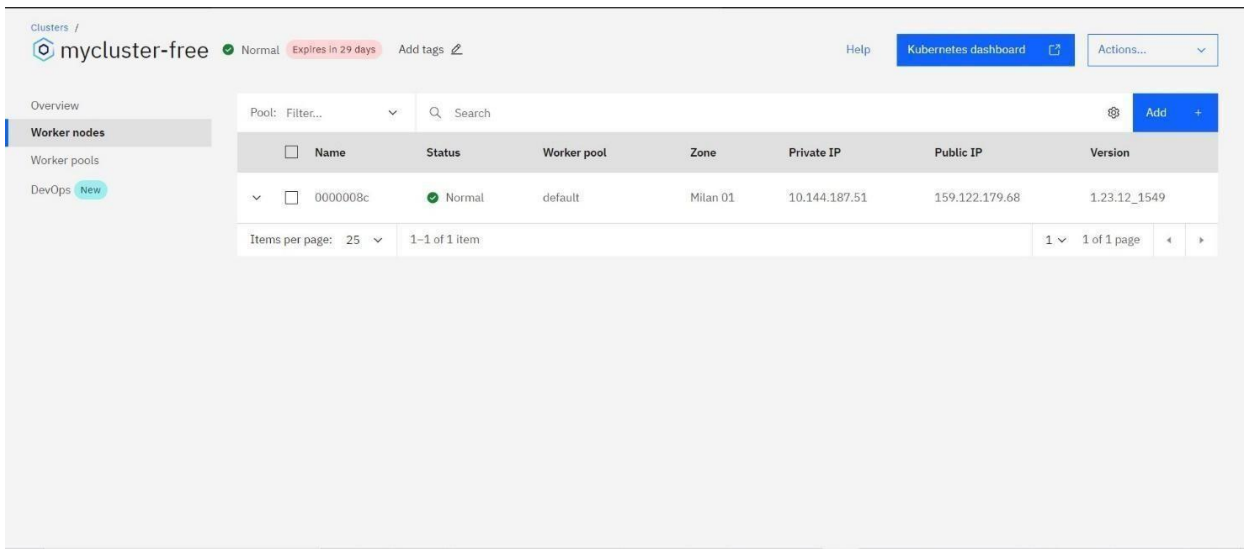Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal imageand also expose the same app to run in nodeport.

Creating kubernetes cluster in IBM cloud and exposing nodeport:

Output: