# Assignment - 4

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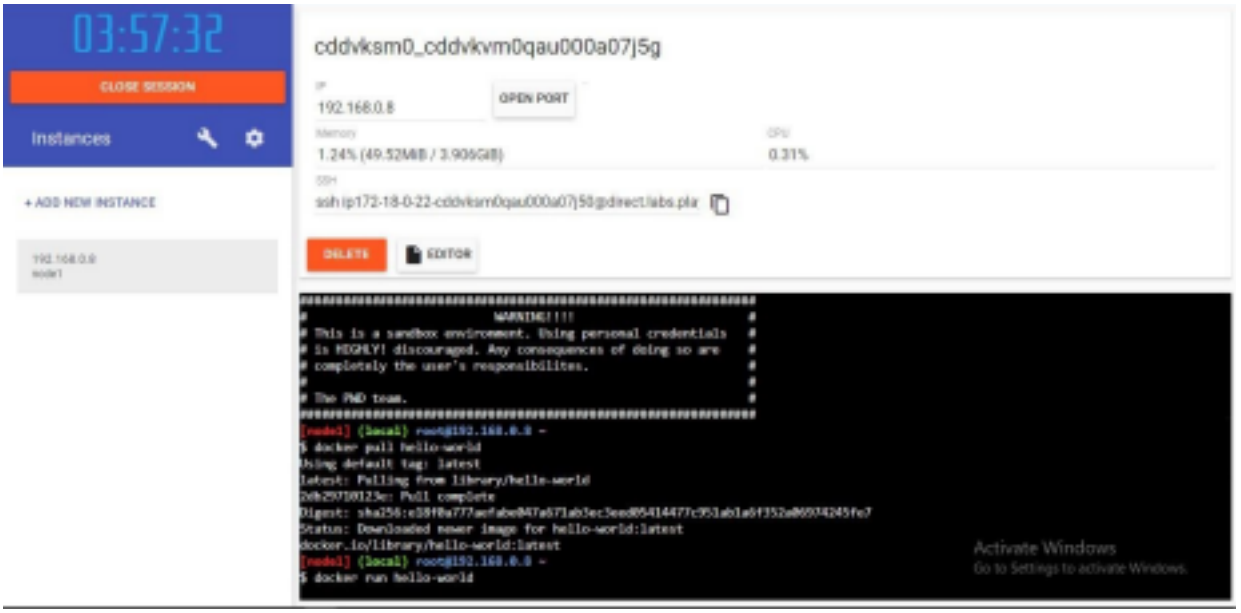
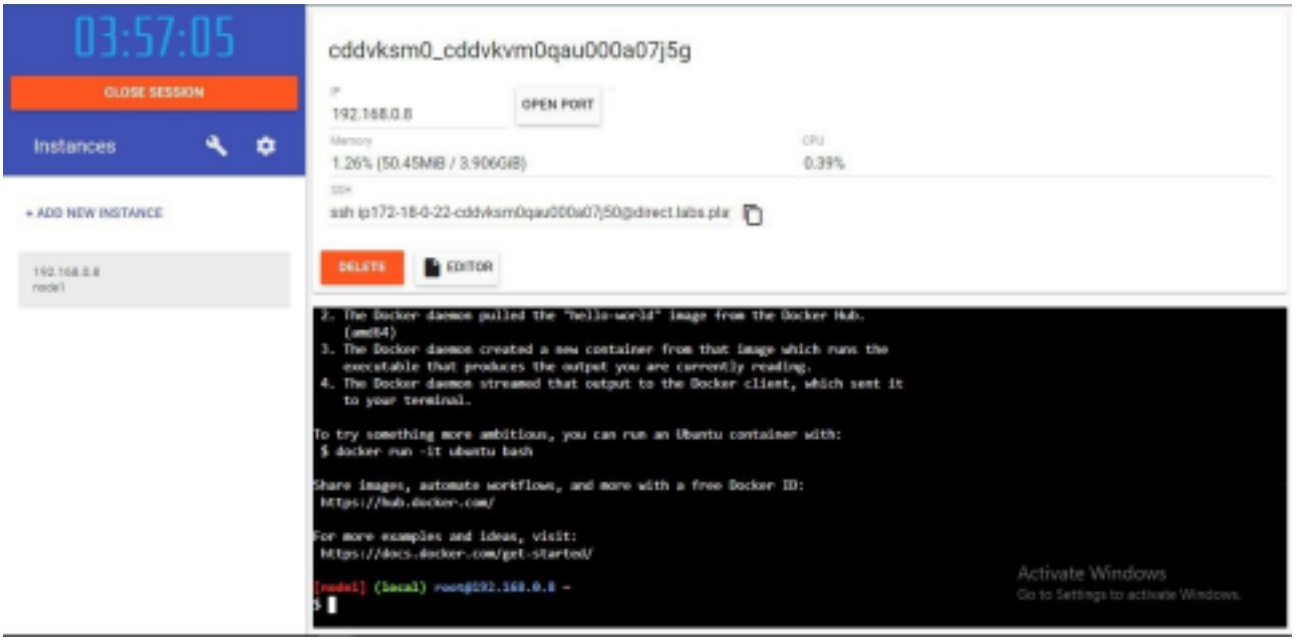
| Assignment Date | 7 NOVEMBER 2022 |
| Student Name | VIYASAN I |
| TEAM ID | PNT2022TMID20737 |
| Project | Personal Expense Tracker |

Question 1:

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





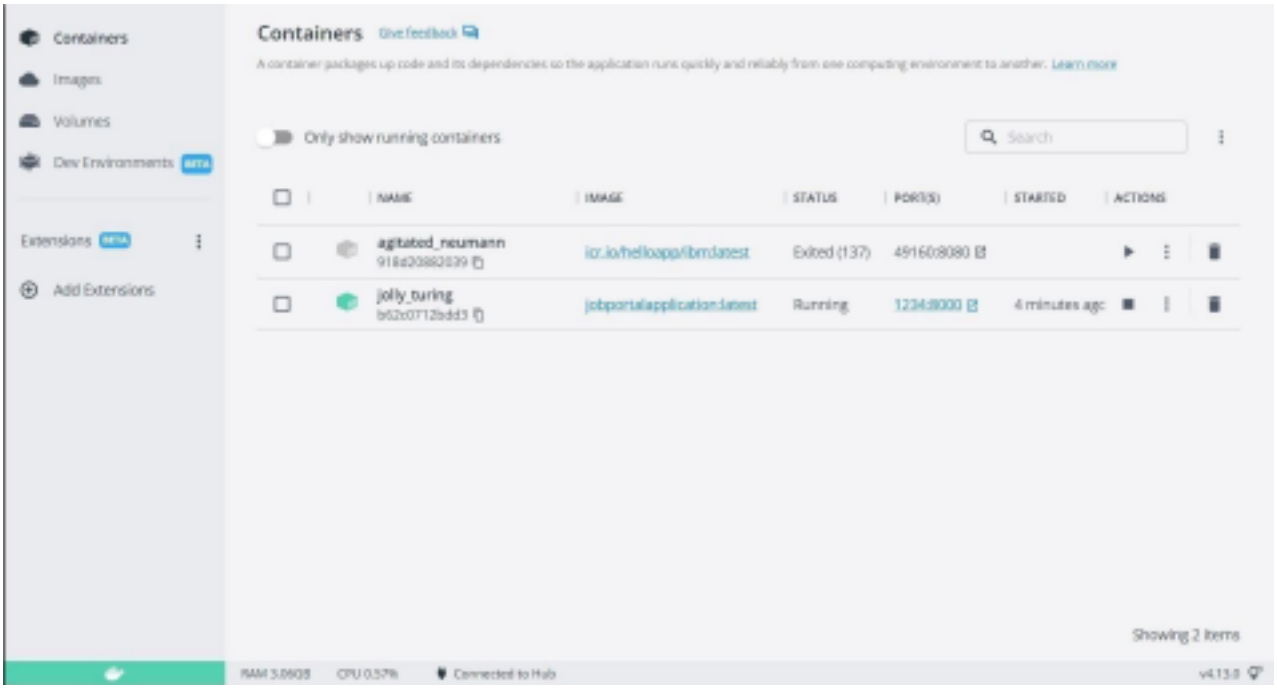

Question 2:

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

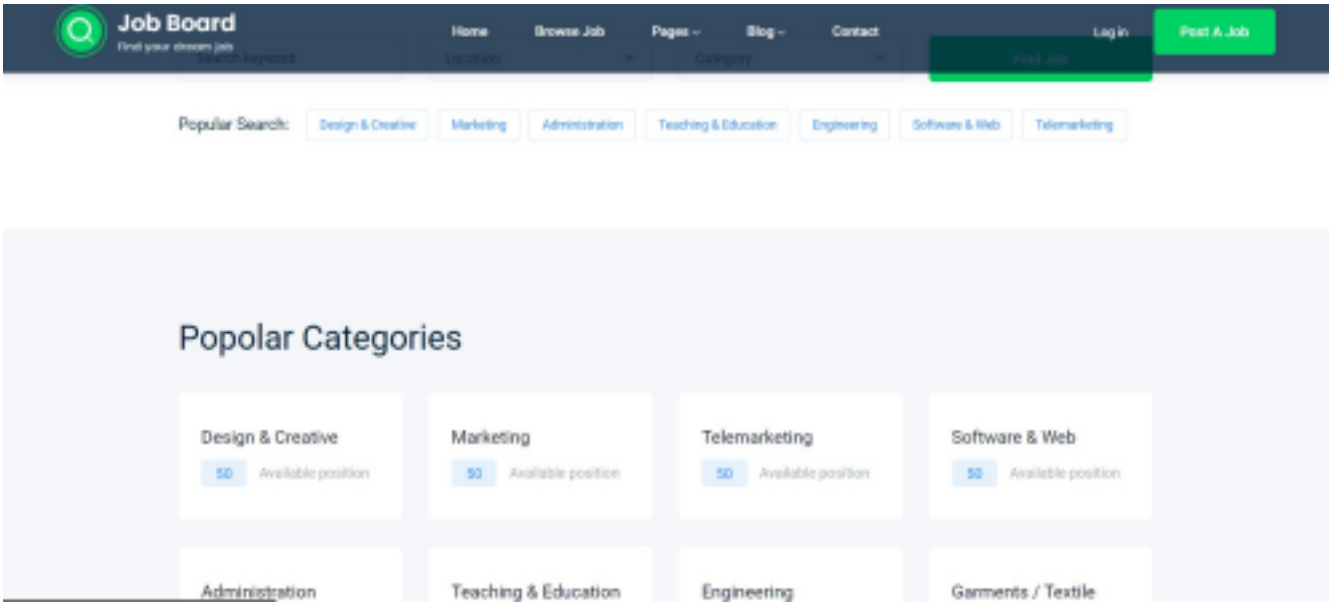
desktopapplication. DOCKER FILE:

```
FROM python:3.8-buster

WORKDIR /app

COPY requirements.txt /app/

RUN pip install -r requirements.txt

COPY . /app/

RUN cp .env.dev.sample .env

EXPOSE 8000

RUN chmod +x entrypoint.sh

CMD ["sh", "entrypoint.sh"]
```

DEPLOYMENT OF JOBPORTAL APPLICATION:



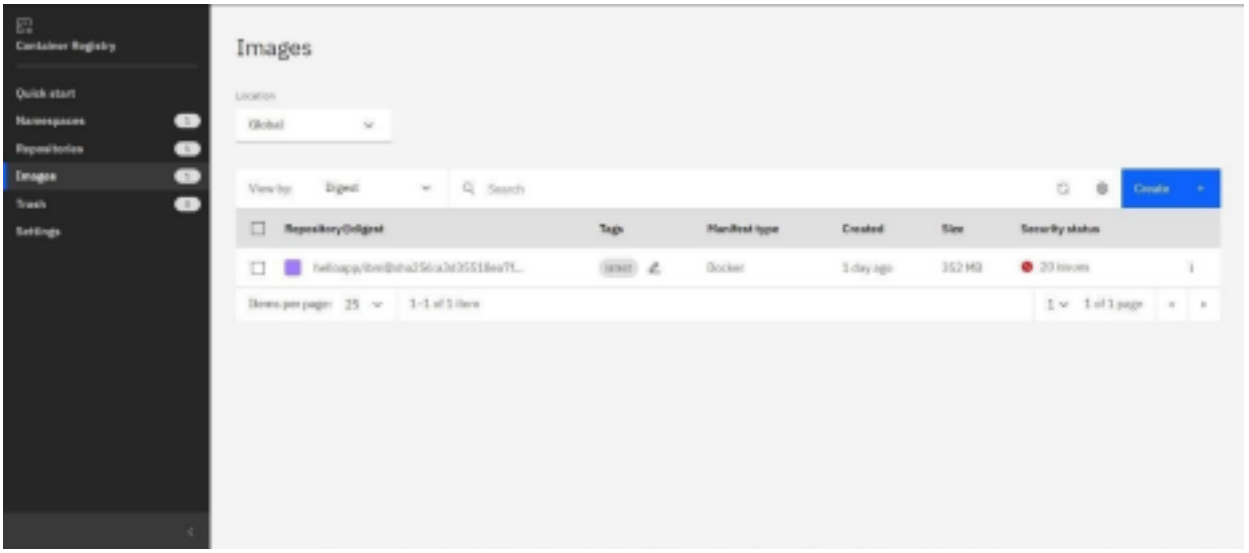

OUTPUT:



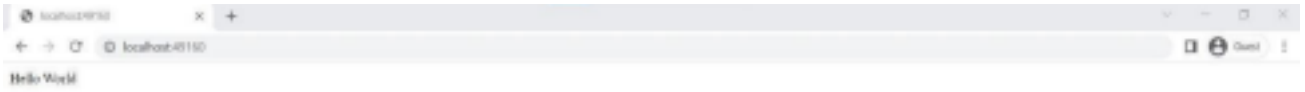

Question 3:

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

CONTAINER REGISTRY DEPLOYMENT:



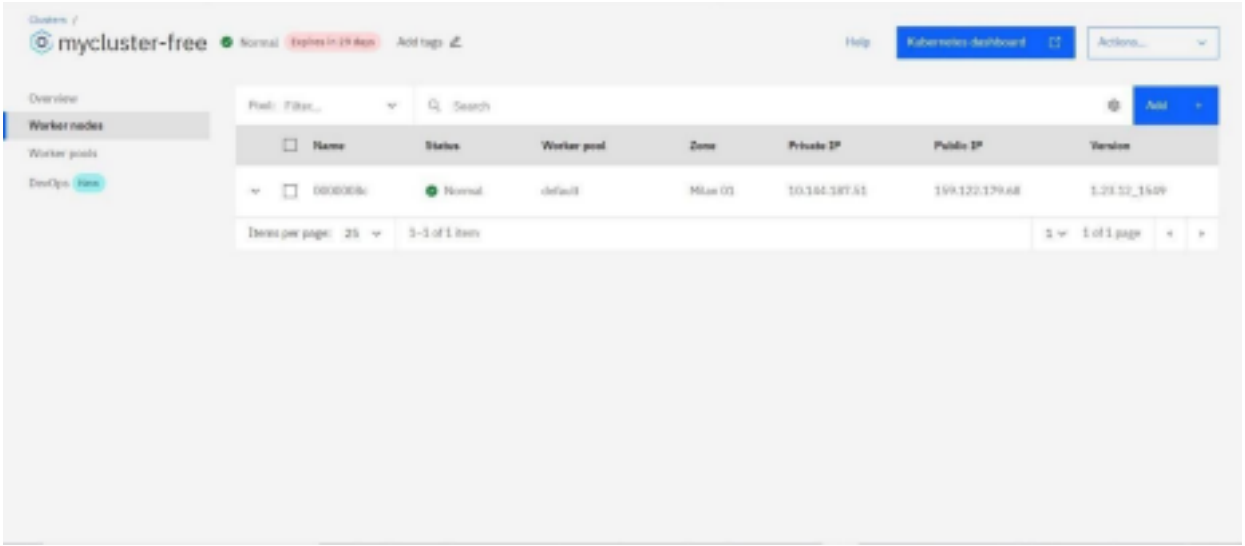

OUTPUT:




Question 4:

Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Creating Kubernetes cluster in IBM cloud and exposing node port:


mycluster-free
Overview
Worker nodes
Worker pools
DevOps
Help
Kubernetes dashboard
Actions...
Add
Name
Status
Worker pool
Zone
Private IP
Public IP
Version

Output: