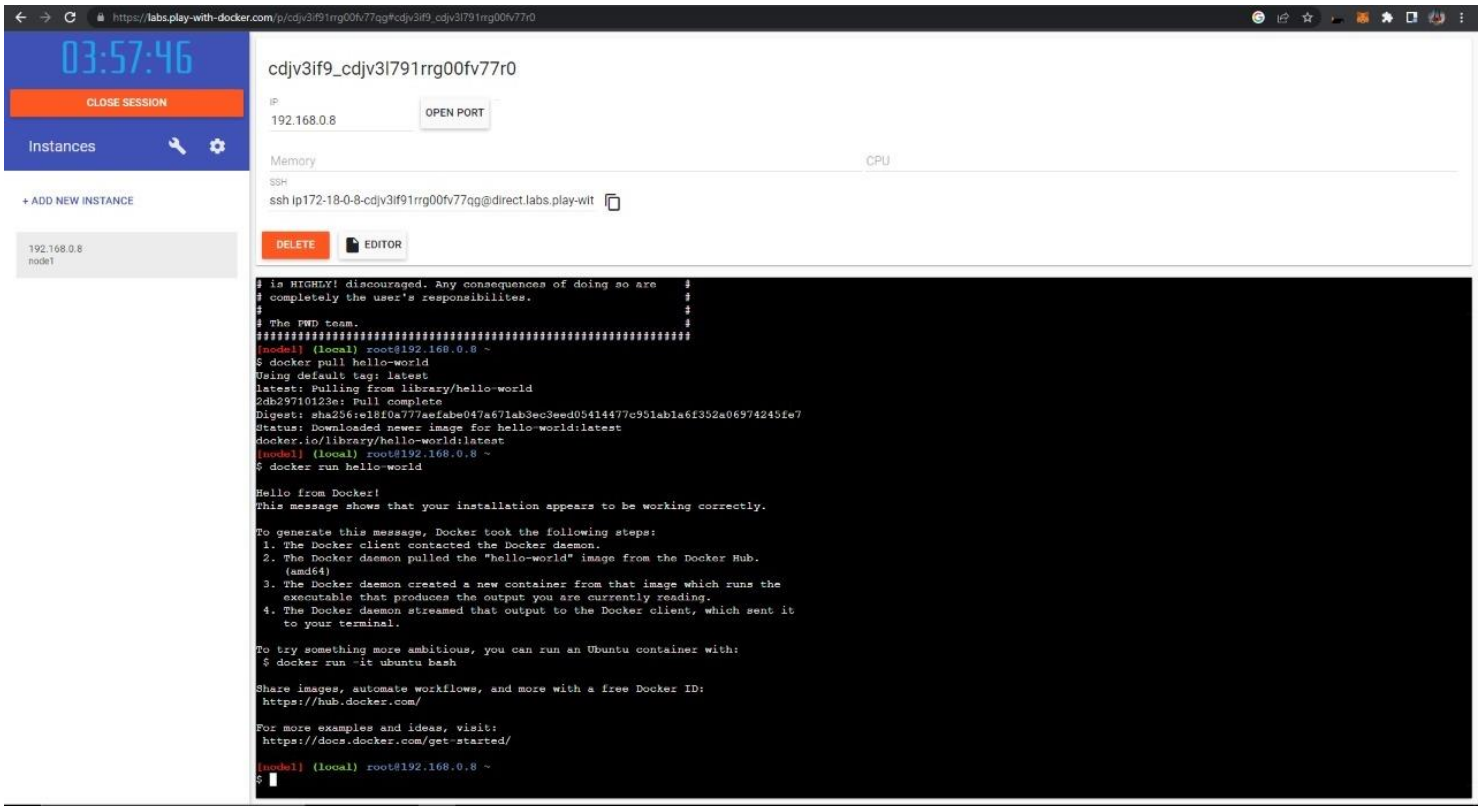
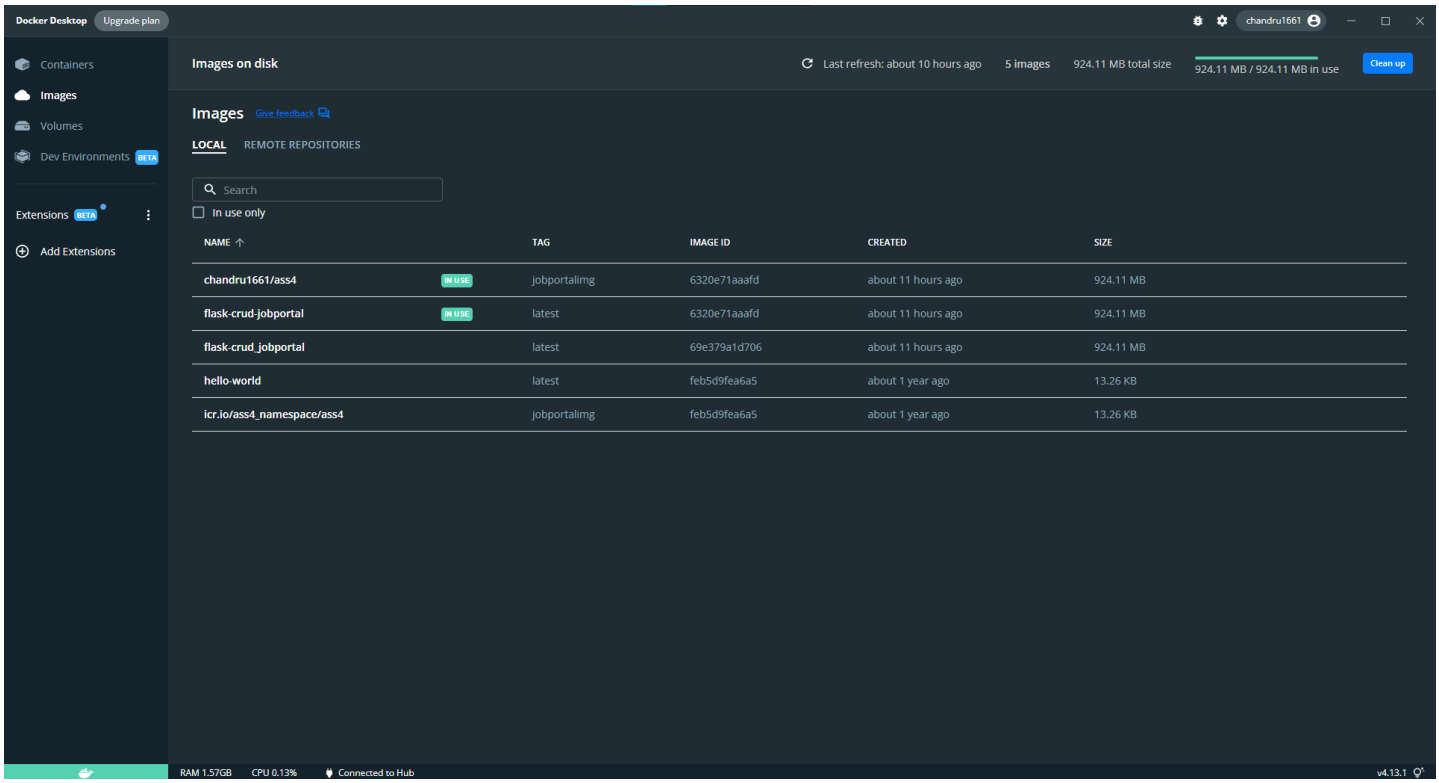
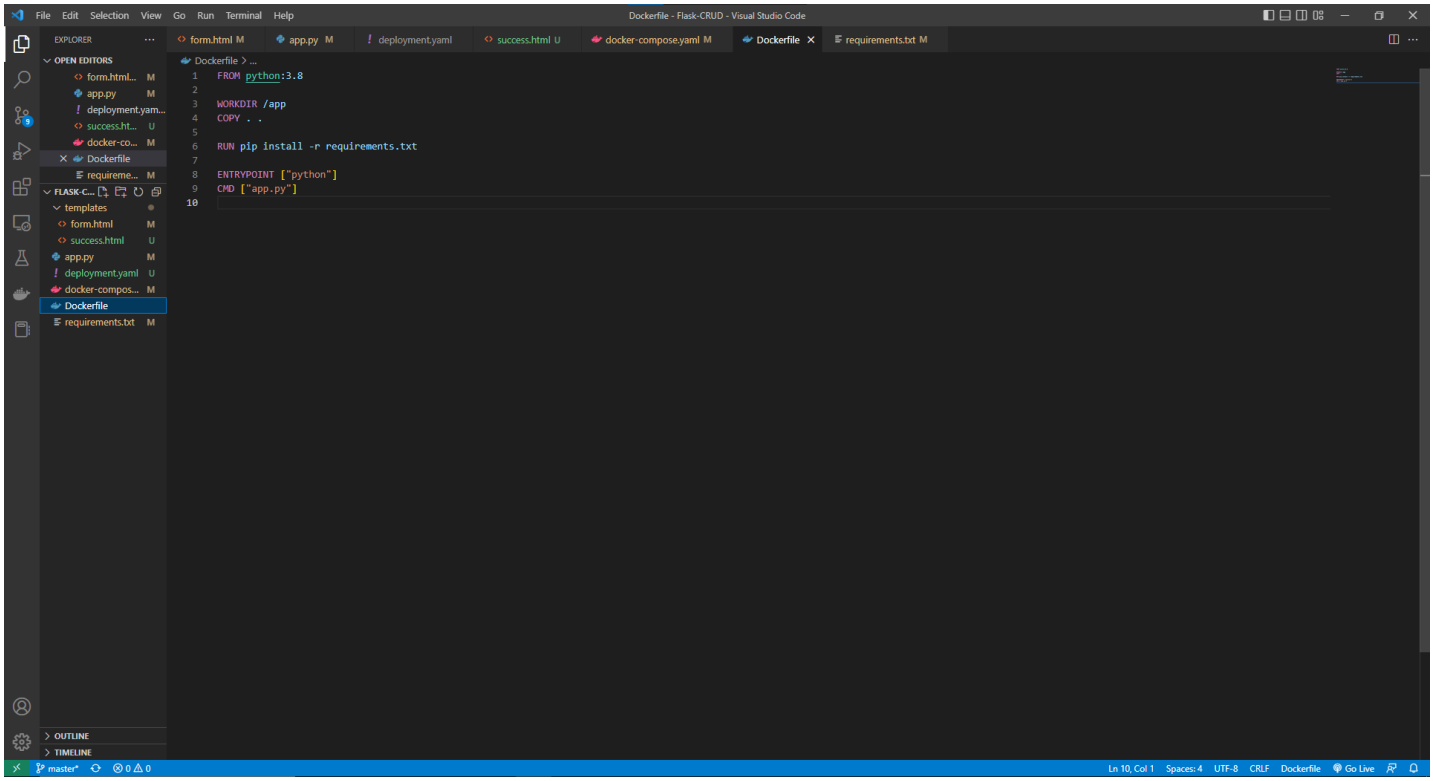
ASSIGNMENT-4

1. Pull an Image from Docker hub and run it in Docker playground.

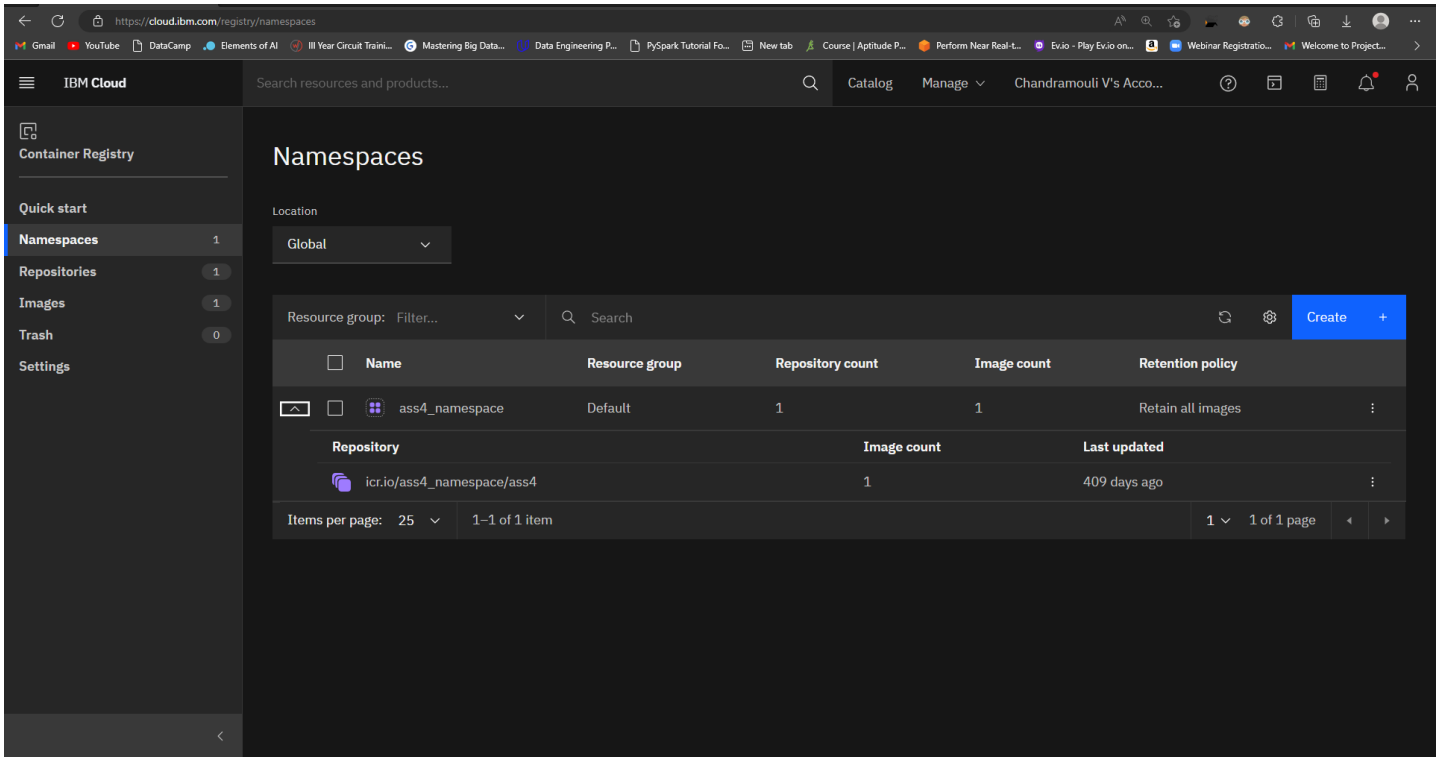


2. Create a Docker file for the jobportal application and deploy it in Docker desktop application.

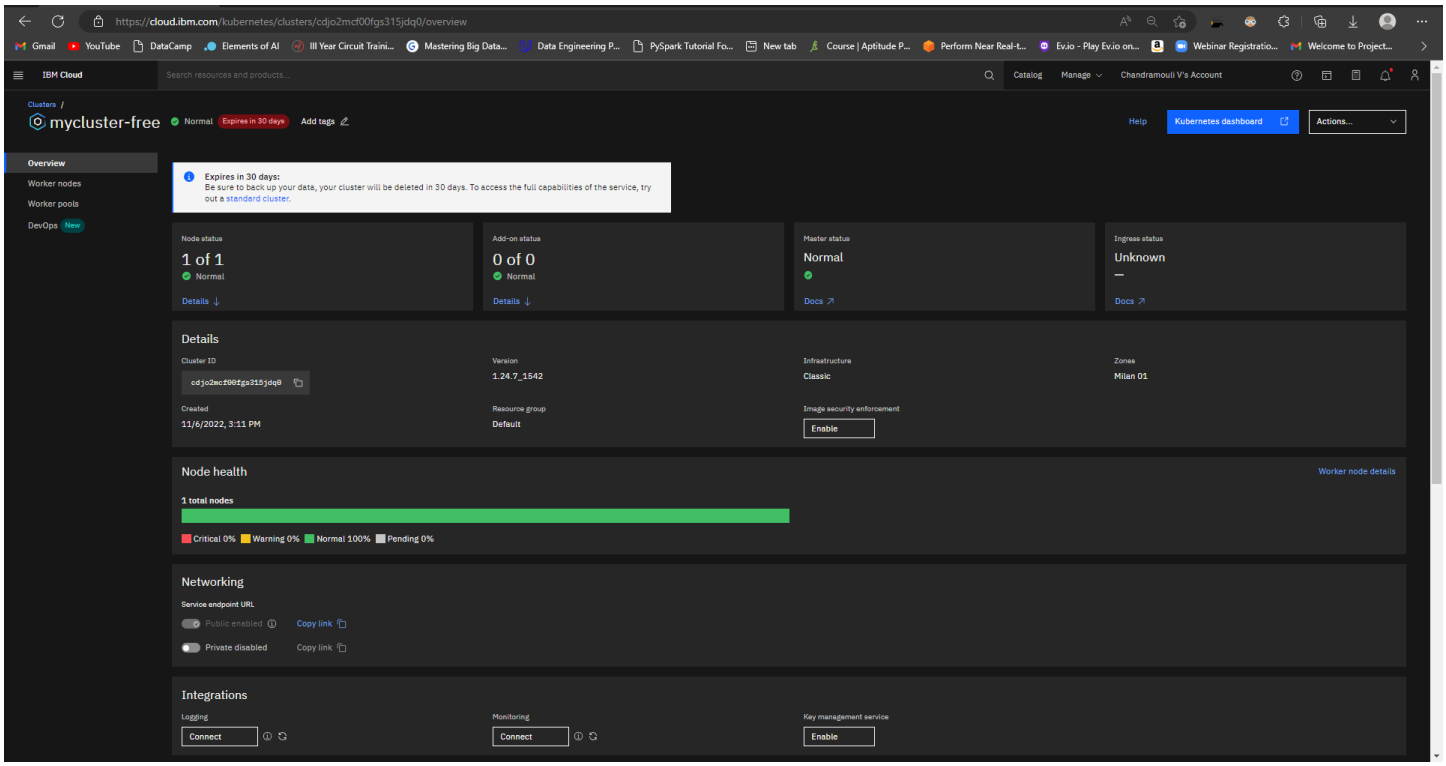


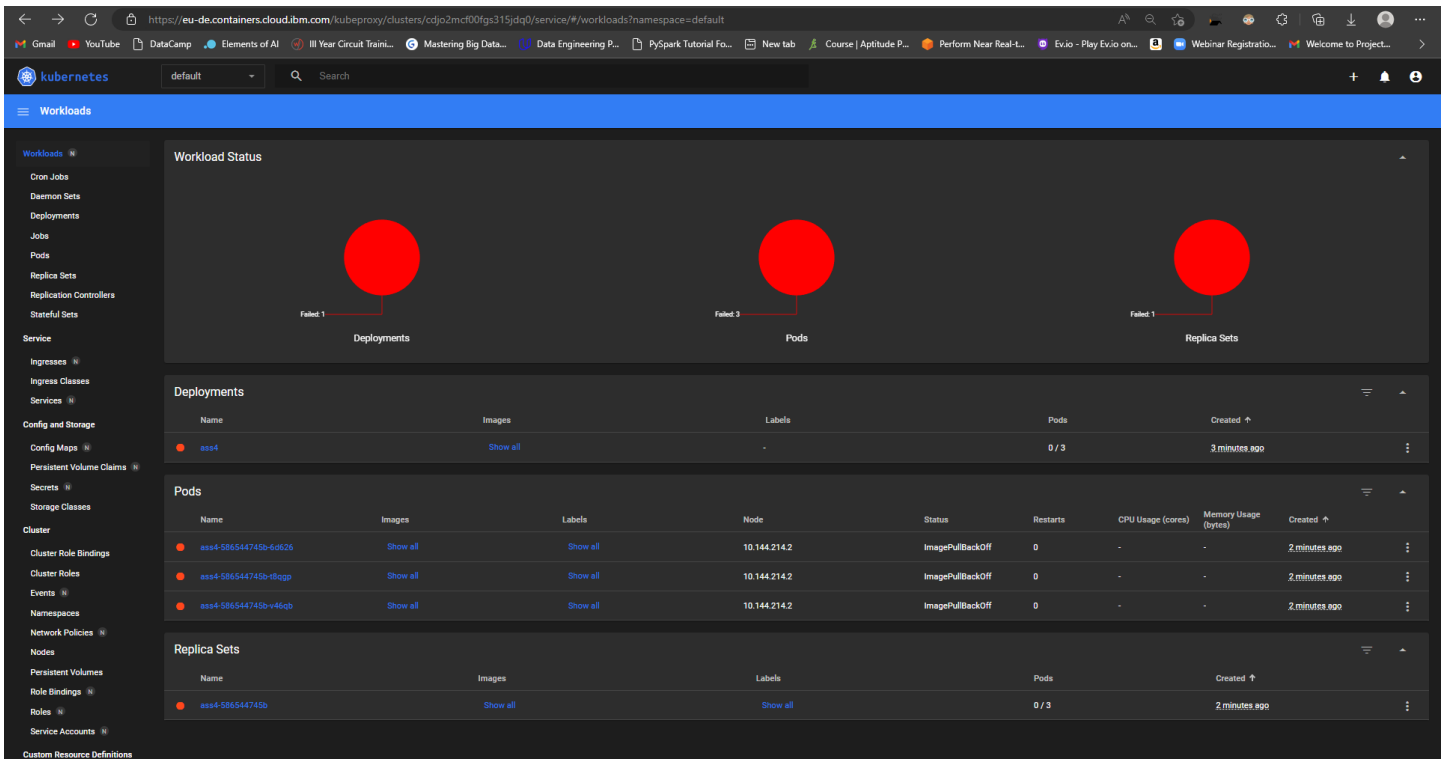


3. Create a IBM container registry and deploy helloworld app or jobportalapp.

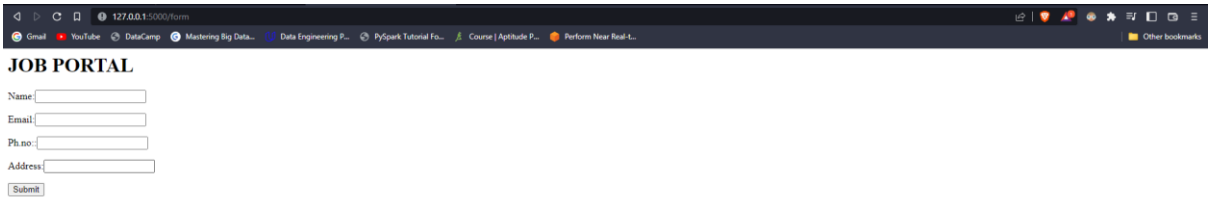


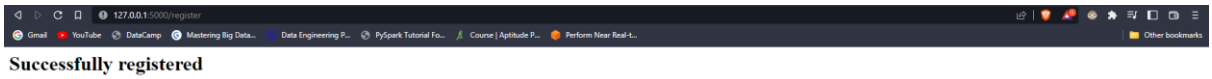
4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.





JOBPORTAL APPLICATION





Deployment.yaml

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: ass4
spec:
  replicas: 1
  selector:
    matchLables:
      app: ass4
  template:
    metadata:
      labels:
        app: ass4
    spec:
      containers:
      - name: ass4
      image: icr.io/ass4_namespace/ass4
      imagePullPolicy: Always
      ports:
      - containerPort: 5000
```

```dockerfile
FROM python:3.8

WORKDIR /app
COPY . .

RUN pip install -r requirements.txt

ENTRYPOINT ["python"]
CMD ["app.py"]
```

Fig: Dockerfile