ASSIGNMENT 4

CLOUD APPLICATION DEVELOPMENT

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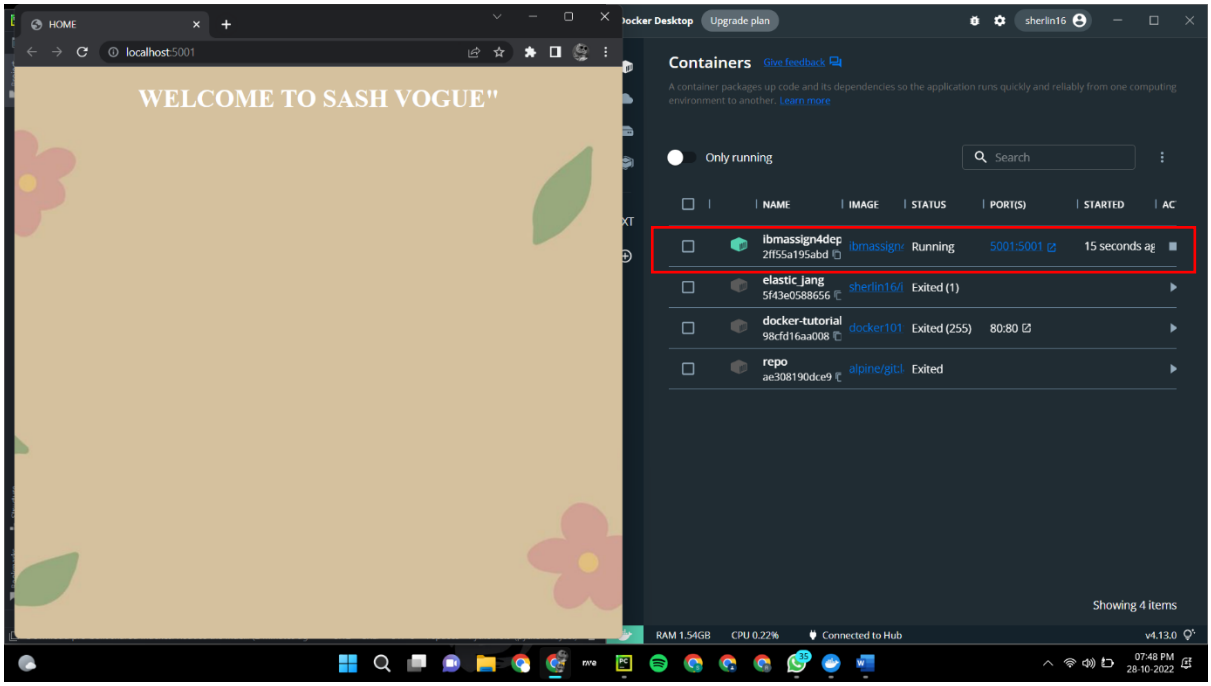
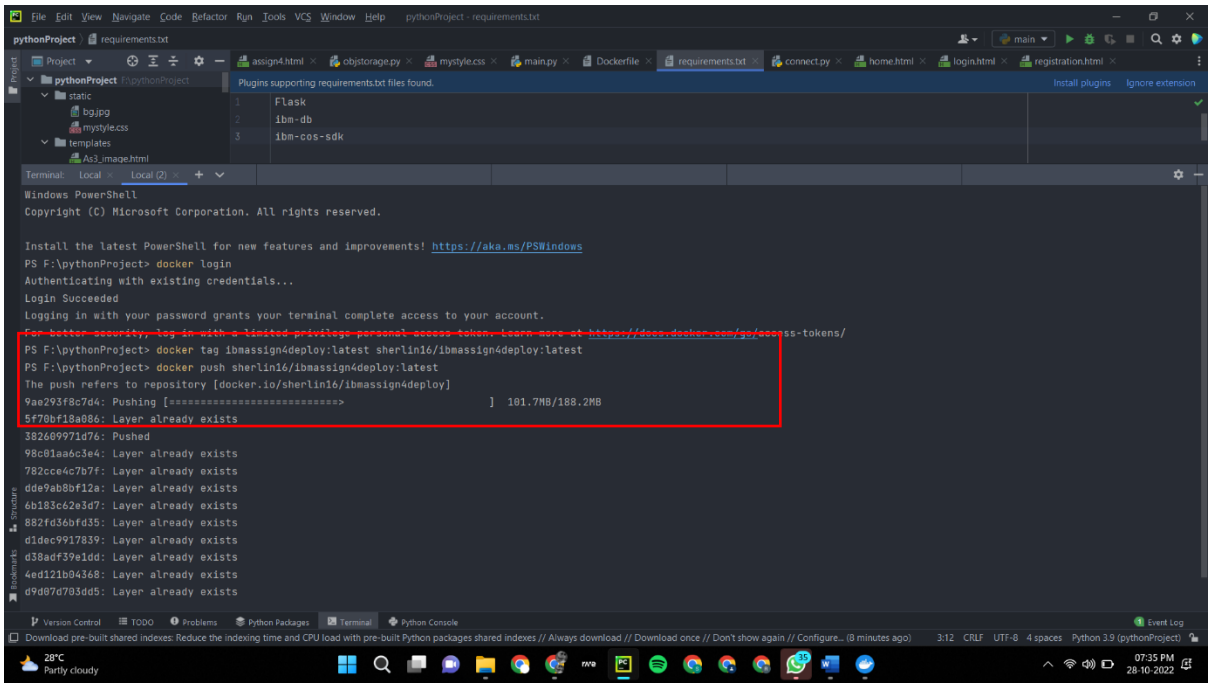
Student Roll Number	813819104091
Maximum Marks	2 Marks

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

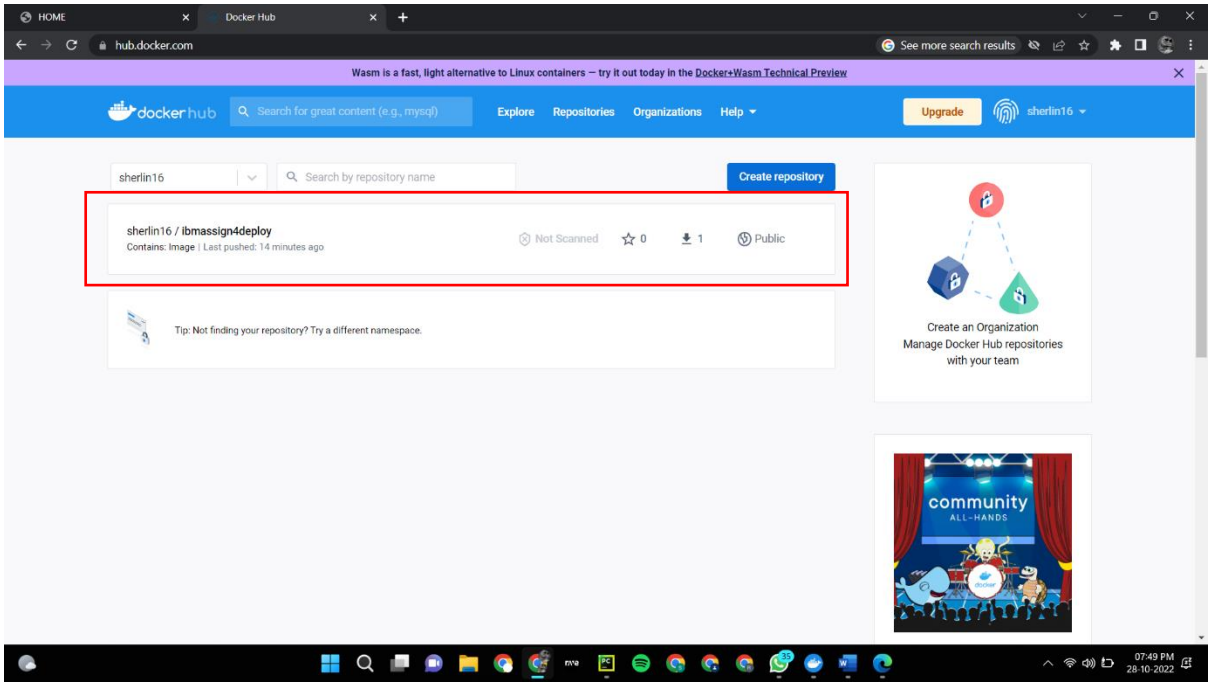
   The image is built.



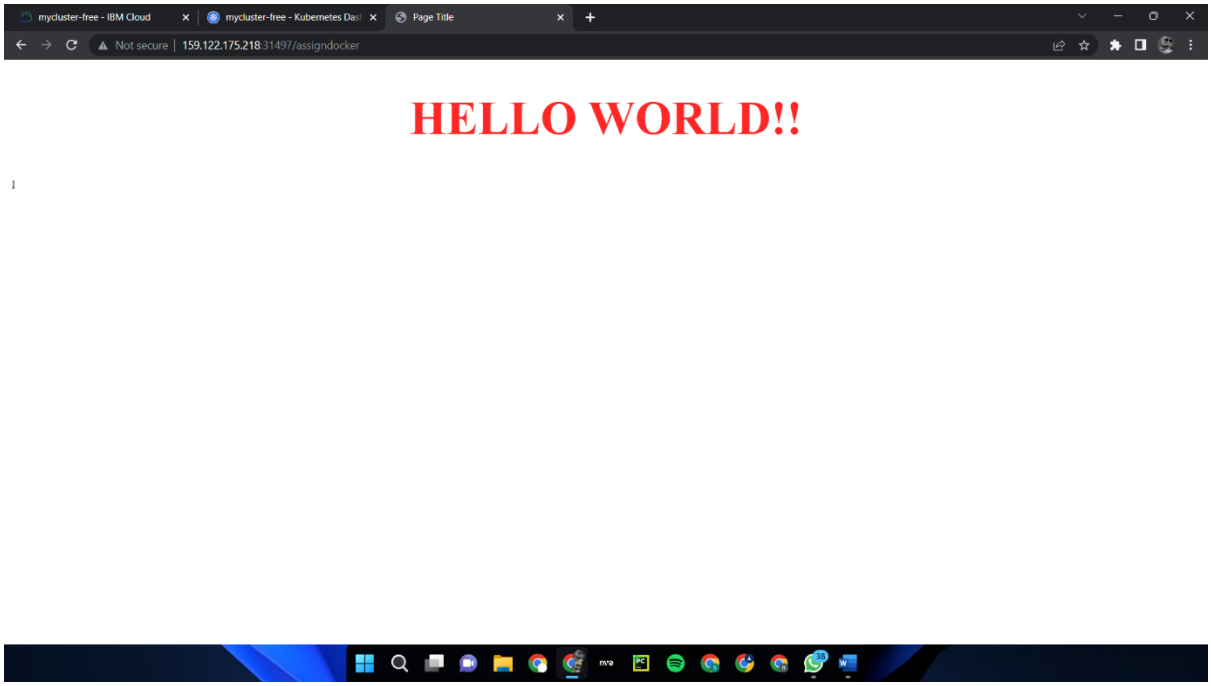
The same image is pushed to the docker hub using the command



Here image name is ibmassign4deploy. Thus it is pushed in docker hub



The app is running at the specified port.

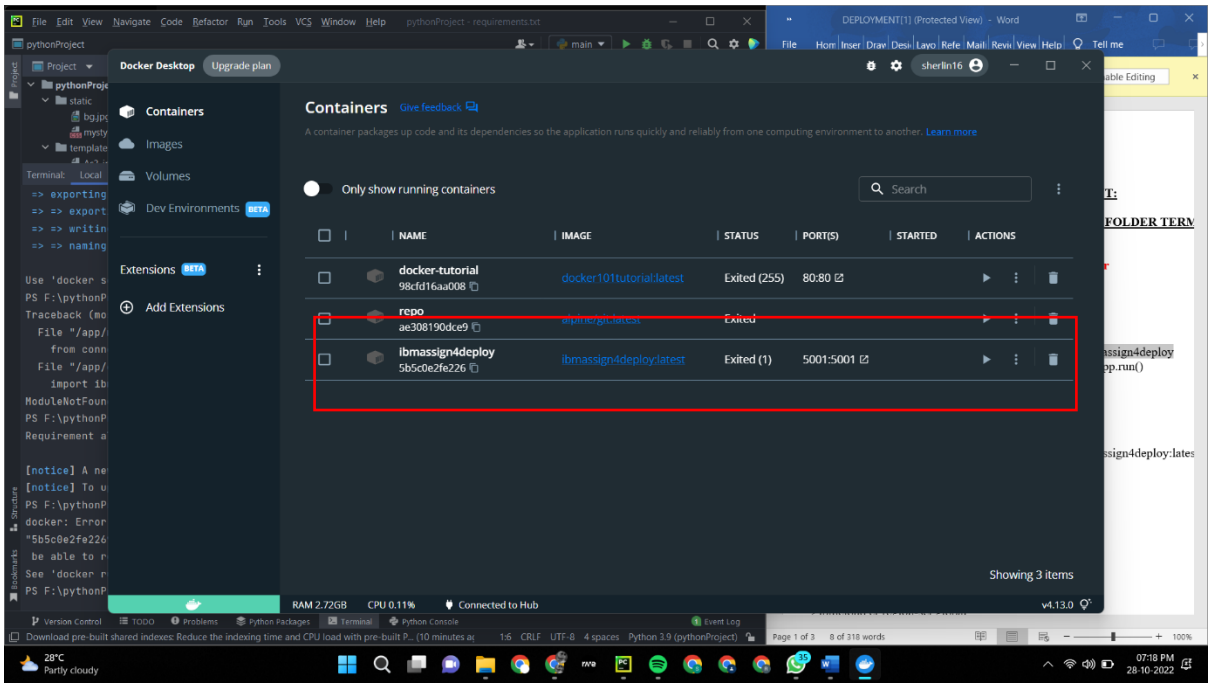


2. Create a docker file for the application and deploy it in the Docker desktop application

Dockerfile:

```
FROM python:3.9
COPY. /app
WORKDIR /app
RUN pip install -r requirements.txt
EXPOSE 5001
ENTRYPOINT [ "python”]
CMD [ "main.py”]
```

Thus, the docker file is created and deployed in the docker desktop

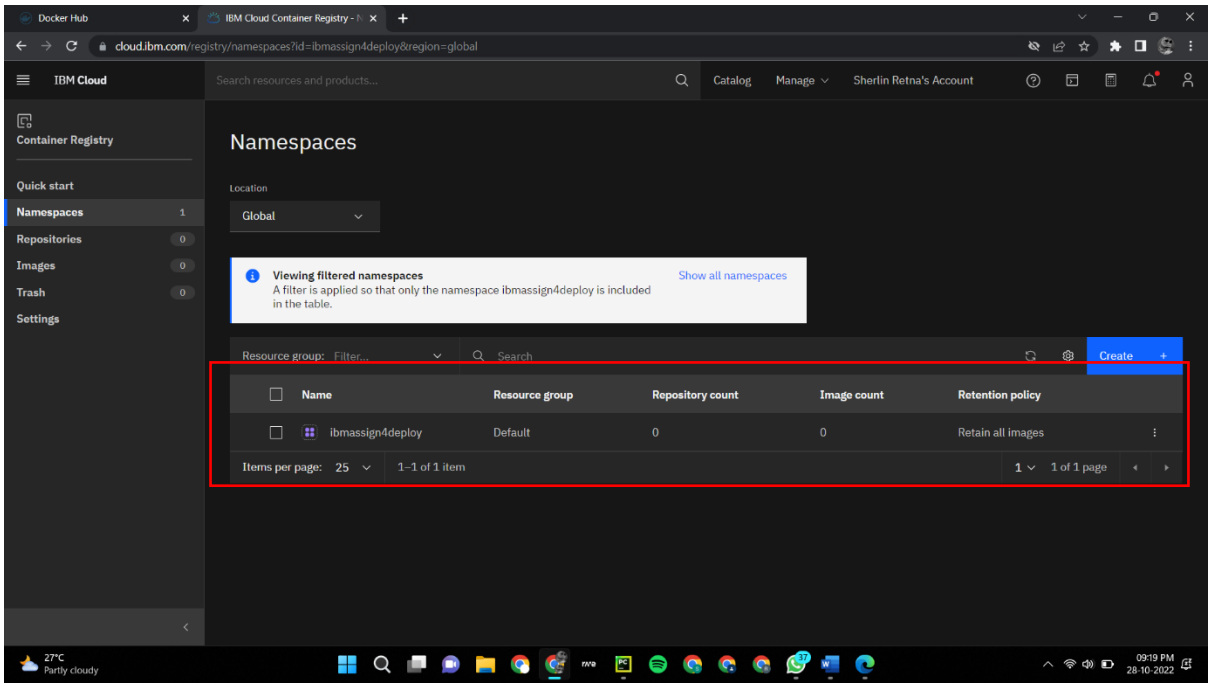


3. Create an IBM container registry and deploy the hello world app. Container registry created using

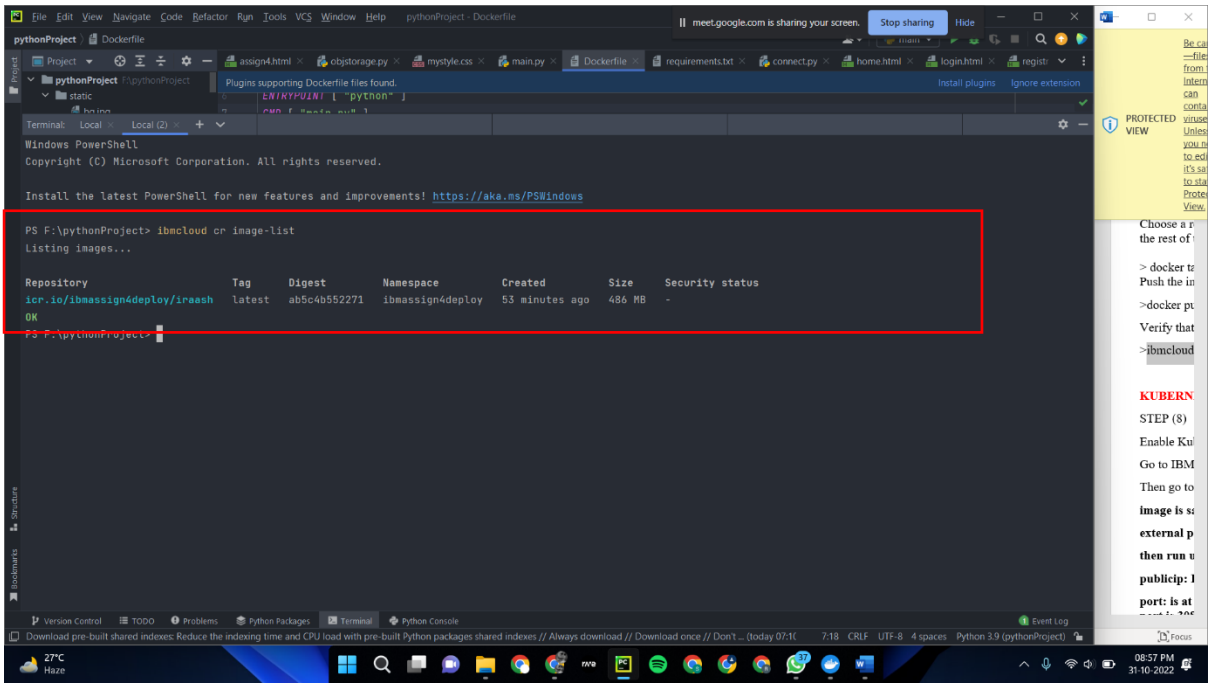
> docker tag sherlin16/ibmassign4deploy:latest

icr.io/ibmassign4deploy/iraash:latest

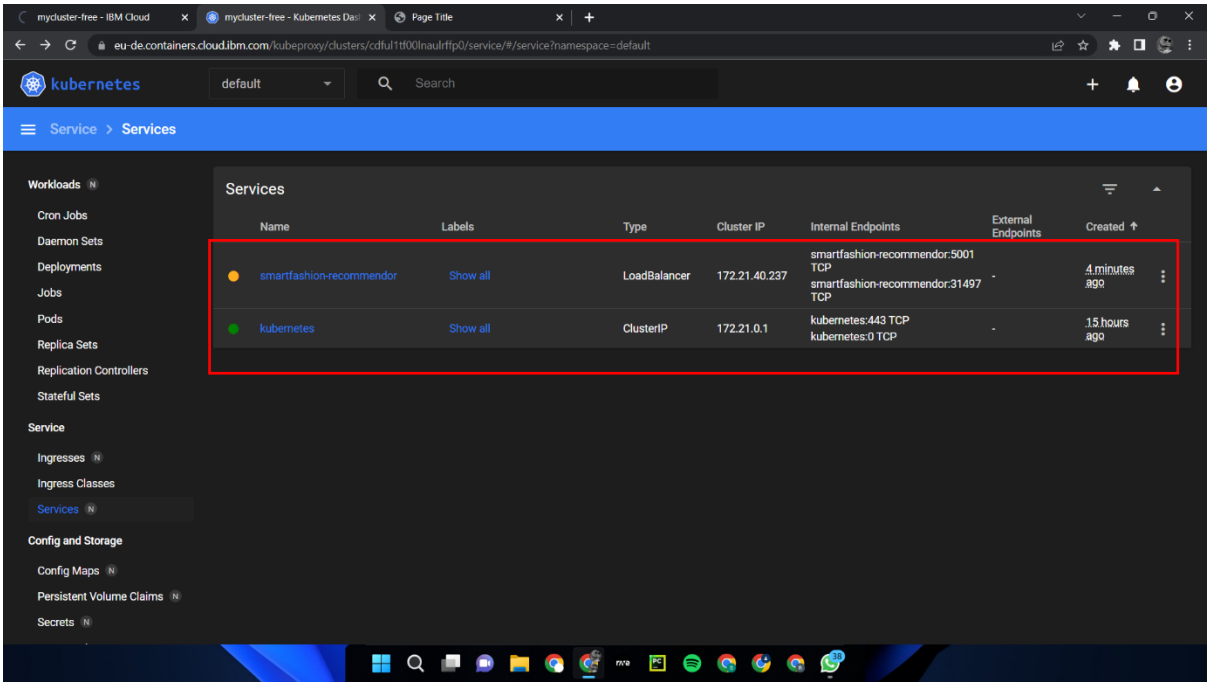
> docker push icr.io/ibmassign4deploy/iraash:latest



Thus, images in container registry are listed



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



APP IS LIVE AT: http://159.122.175.218:31497/assigndocker