

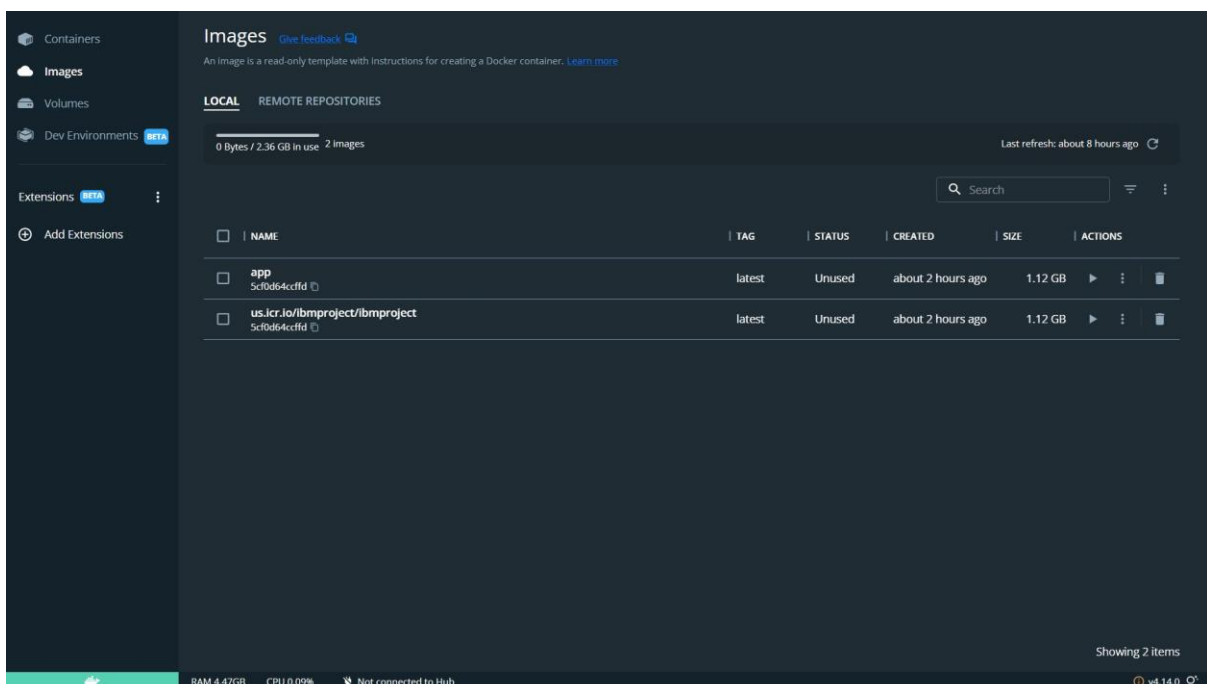
SMART FASHION RECOMMENDER

Creating a docker file

```
Dockerfile X
Dockerfile > ...
1 FROM python:3.10
2 RUN apt-get update
3 RUN mkdir /app
4 WORKDIR /app
5 COPY . /app
6 RUN pip install -r requirements.txt
7 EXPOSE 5000
8 ENTRYPOINT [ "python" ]
9 CMD [ "Controller.py" ]
```

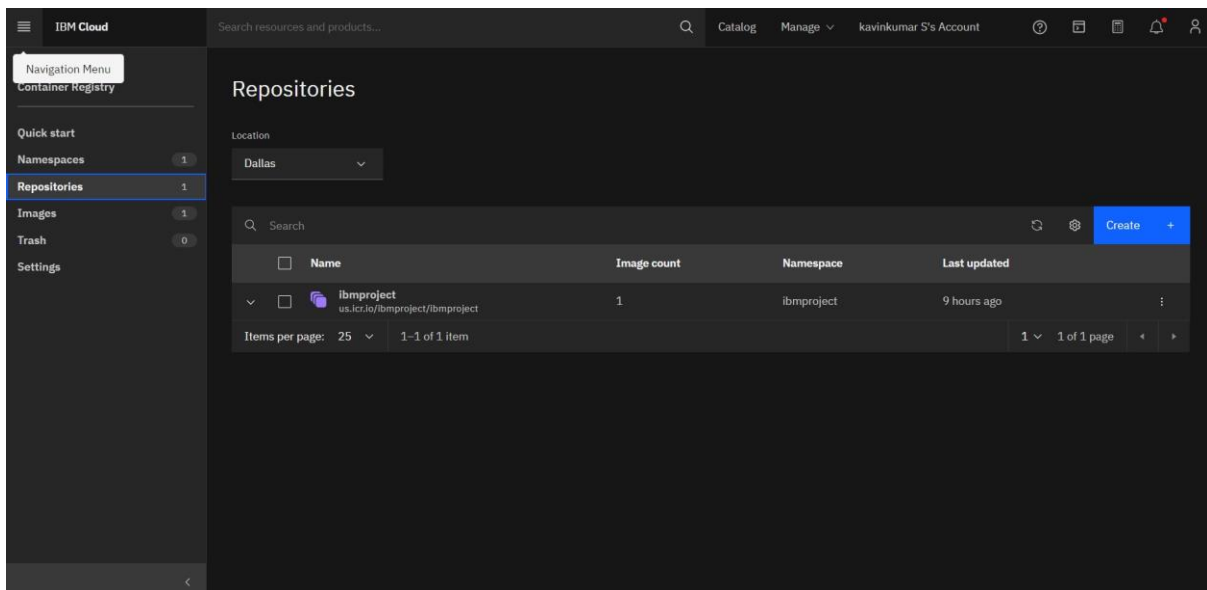
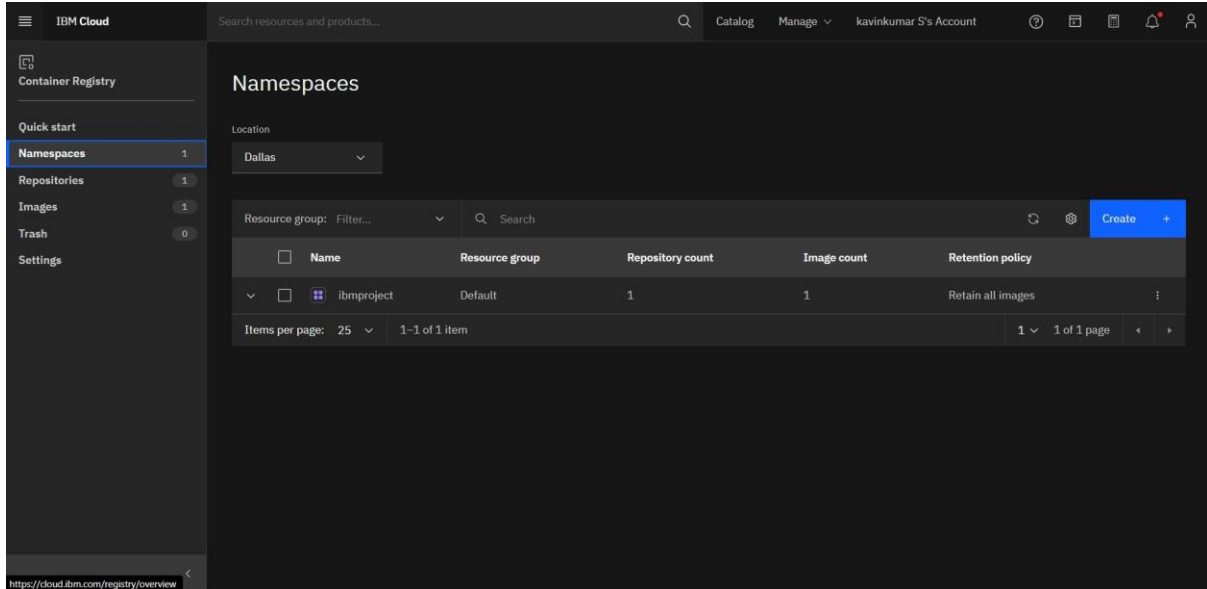
Creating a docker image

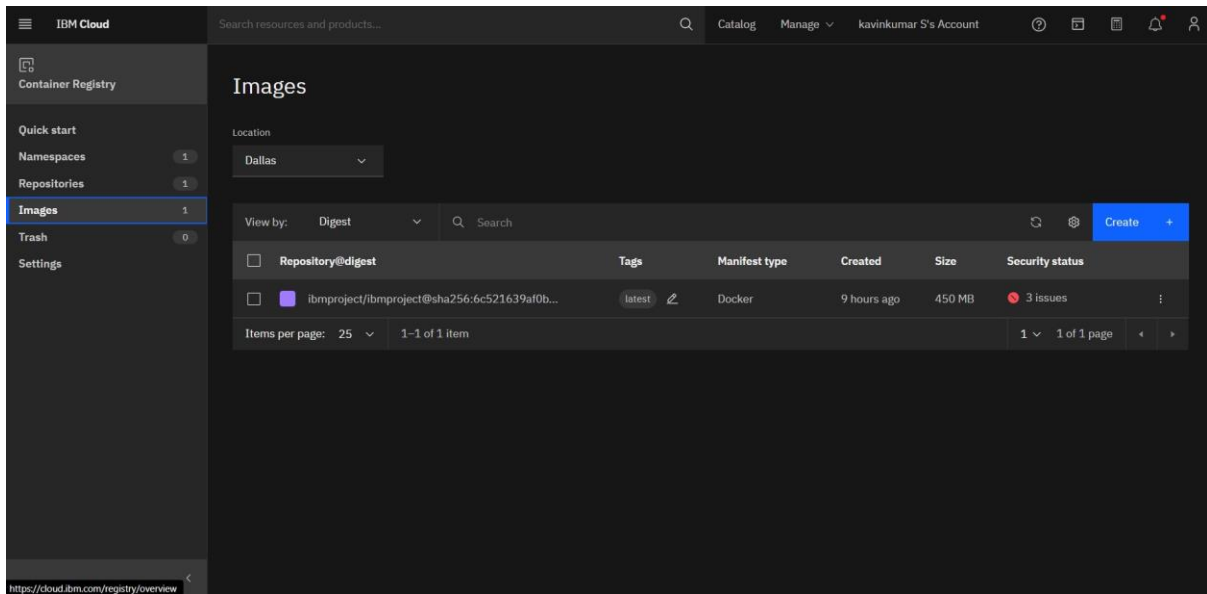
For this process, this command is used -> **docker build -t app .**



Push the image to the IBM Cloud Registry

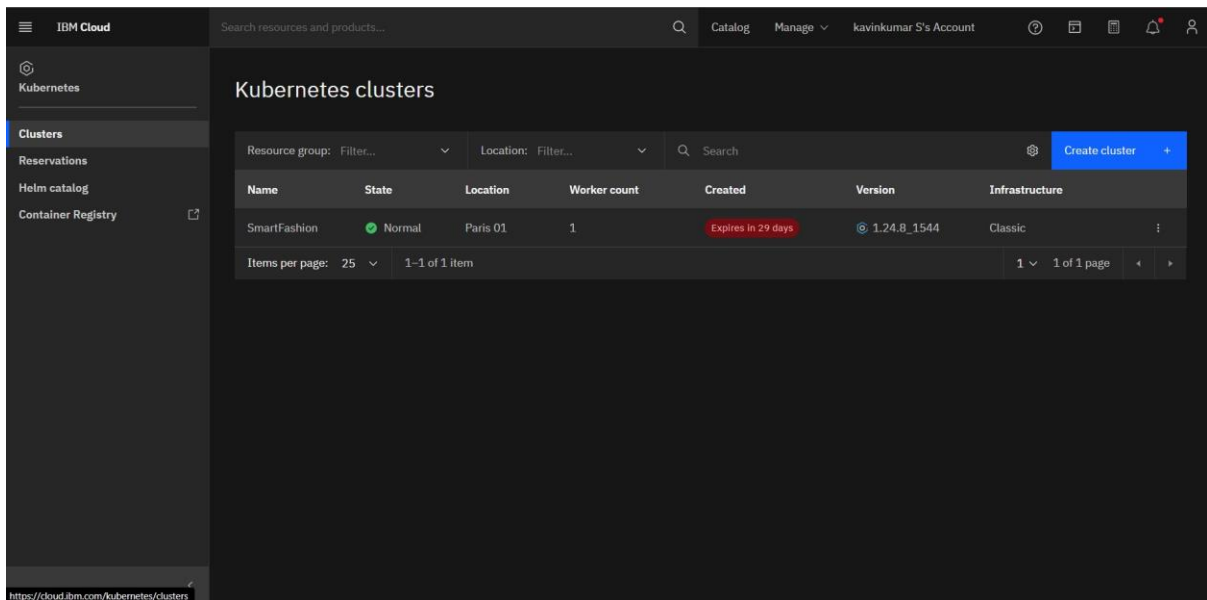
This process is done with the following commands,
`ibmcloud cr namespace-add ibmproject ibmcloud cr login`
`docker tag app:latest us.icr.io/ibmproject/ibmproject:latest`
`docker push us.icr.io/ibmproject/ibmproject:latest`





Deploy application to Kubernetes

ibmcloud ks cluster config --cluster SmartFashion kubectl config current-context kubernetes --expose deployment smartfashion --type=NodePort --name=service



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default

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Create from input

Create from file

Create from form

App name *

smartfashion

Deployment or service with this name already exists within namespace.

Container image *

us.icr.io/ibmproject/ibmproject.latest

Enter the URL of a public image on any registry, or a private image hosted on Docker Hub or Google Container Registry.

Number of pods *

3

A Deployment will be created to maintain the desired number of pods across your cluster.

Service *

None

Optionally, an internal or external Service can be defined to map an incoming Port to a target Port seen by the container.

Namespace *

default

Namespaces let you partition resources into logically named groups.

Deploy

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| Name | Images | Labels | Pods | Created |
|--------------|----------|----------|-------|-------------|
| smartfashion | Show all | Show all | 3 / 3 | 5 hours ago |

| Name | Images | Labels | Node | Status | Restarts | CPU Usage (cores) | Memory Usage (bytes) | Created |
|-------------------------------|----------|----------|----------------|---------|----------|-------------------|----------------------|-------------|
| smartfashion-7cd9d86999-2297d | Show all | Show all | 10.144.195.213 | Running | 0 | 1.00m | 29.33Mi | 5 hours ago |
| smartfashion-7cd9d86999-14ptl | Show all | Show all | 10.144.195.213 | Running | 0 | 1.00m | 29.25Mi | 5 hours ago |
| smartfashion-7cd9d86999-nw8l2 | Show all | Show all | 10.144.195.213 | Running | 0 | 1.00m | 29.38Mi | 5 hours ago |

| Name | Images | Labels | Pods | Created |
|-------------------------|----------|----------|-------|-------------|
| smartfashion-7cd9d86999 | Show all | Show all | 3 / 3 | 5 hours ago |