SKILL / JOB RECOMMENDER
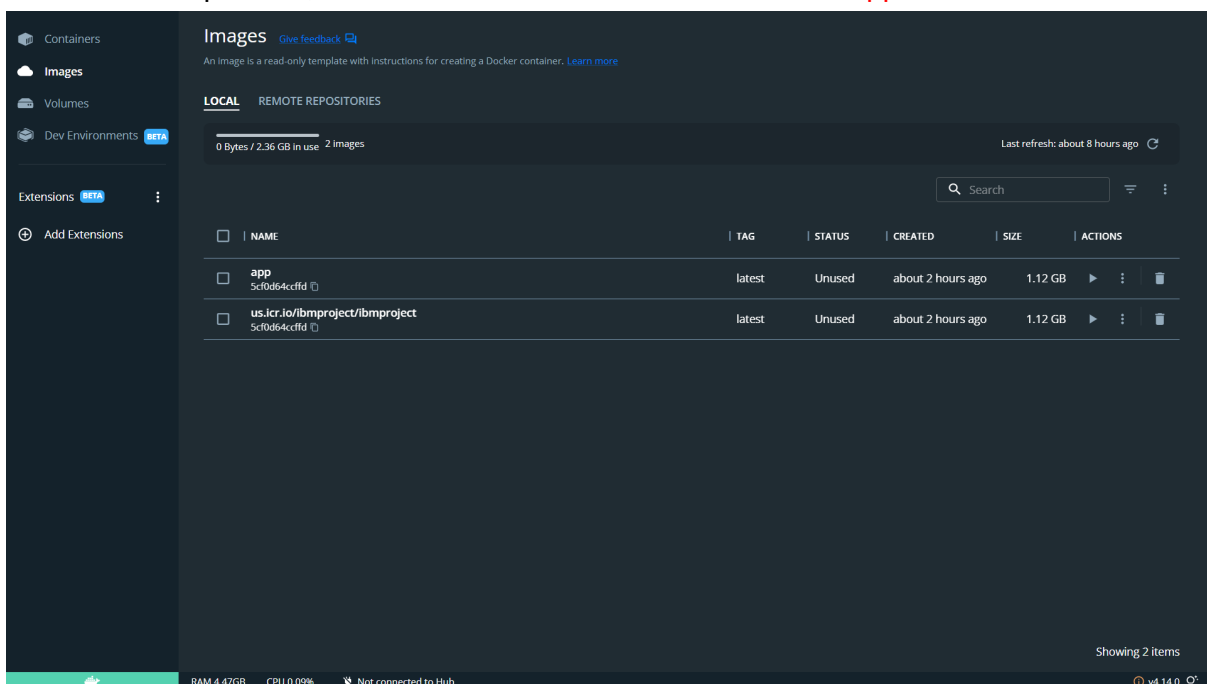
Team ID: PNT2022TMID07243

Creating a docker file

```dockerfile
FROM python:3.10
RUN apt-get update
RUN mkdir /app
WORKDIR /app
COPY . /app
RUN pip install -r requirements.txt
EXPOSE 5000
ENTRYPOINT [ "python" ]
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
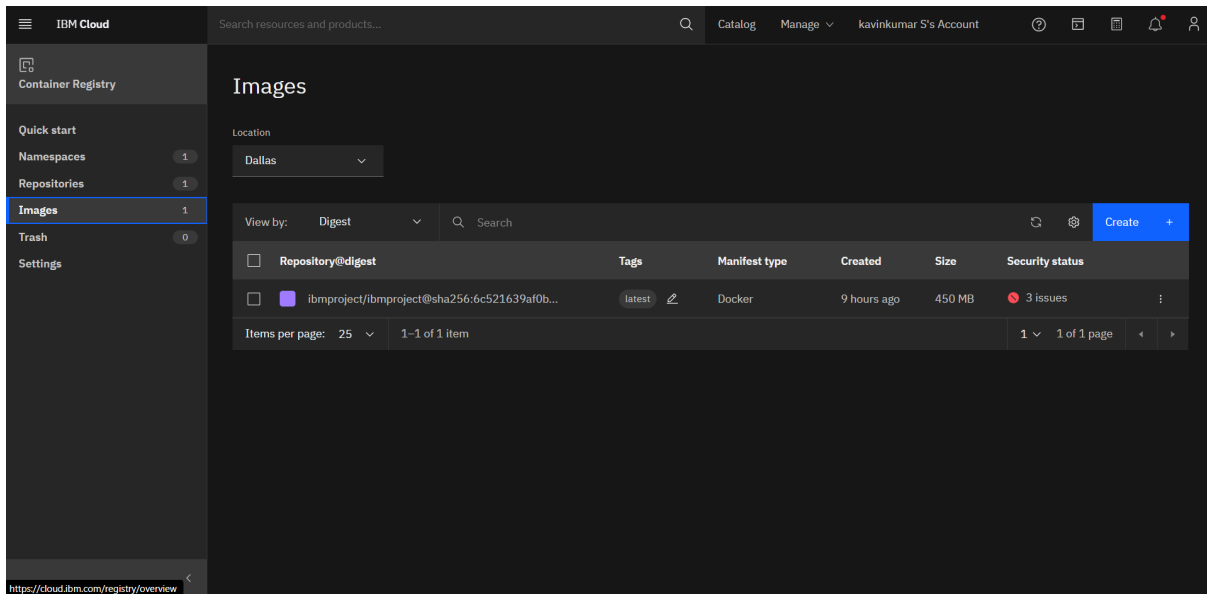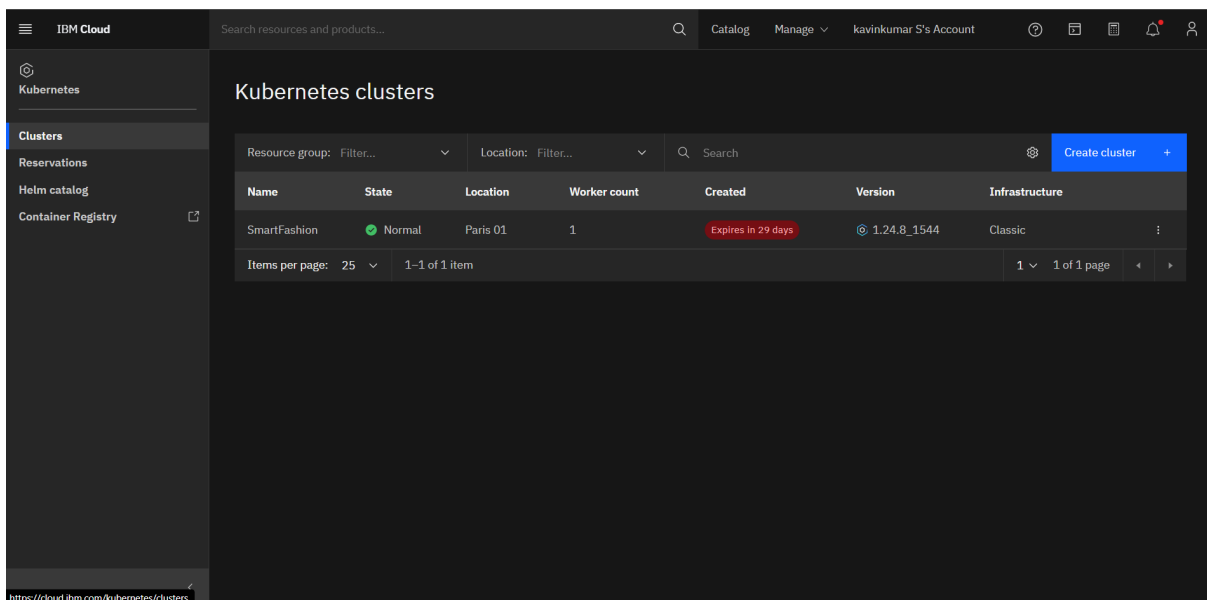docker push us.icr.io/ibmproject/ibmproject:latest

Deploy application to Kubernetes

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

default ▾   🔍 Search   + 🔔 👤

☰ **Create**

Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets

Service
Ingresses N
Ingress Classes
Services N

Config and Storage
Config Maps N
Persistent Volume Claims N
Secrets N
Storage Classes

Create from input	Create from file	Create from form

App name *
smartfashion

An 'app' label with this value will be added to the Deployment and Service that get deployed. Learn more ⧉

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. Learn more ⧉

Number of pods *
3

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

Service *
None ▾

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

Namespace *
default ▾

Namespaces let you partition resources into logically named groups. Learn more ⧉

Deploy   Preview   Cancel   Show advanced options

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default ▾   🔍 Search   + 🔔 👤

☰ **Workloads**

Workloads N
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Ingresses N
Ingress Classes
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Config and Storage
Config Maps N
Persistent Volume Claims N
Secrets N

Deployments

Name	Images	Labels	Pods	Created ↑	
🟢 smartfashion	Show all	Show all	3 / 3	5 hours ago	⋮

Pods

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-f4ptl	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	⋮

Replica Sets

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