

SKILL / JOB RECOMMENDER

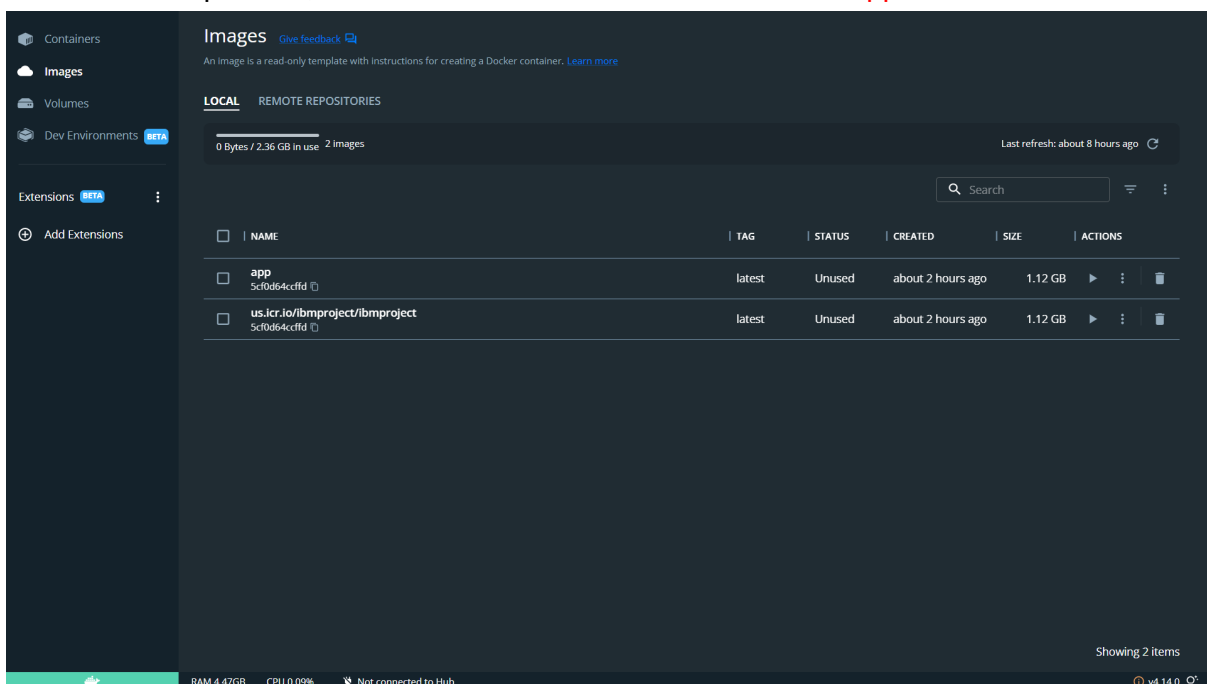
Team ID: PNT2022TMID07243

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
```

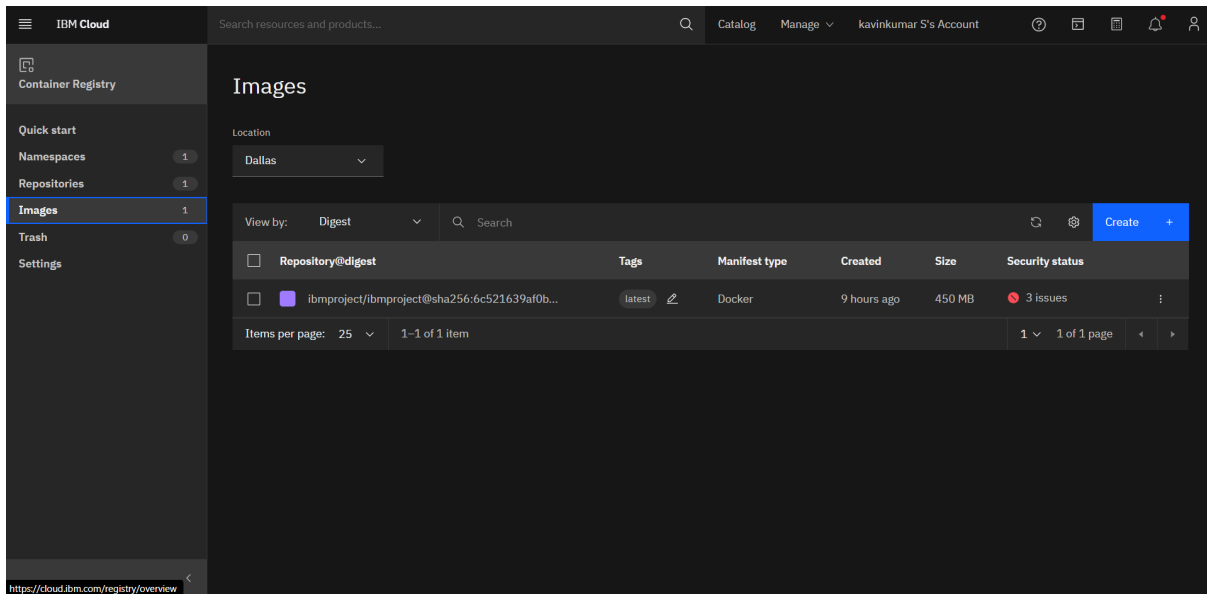
```
docker push us.icr.io/ibmproject/ibmproject:latest
```

The screenshot shows the IBM Cloud Container Registry interface. The left sidebar has a 'Namespaces' tab selected, showing 1 item. The main content area is titled 'Namespaces' and shows a table with one namespace: 'ibmproject'. The table has columns for Name, Resource group, Repository count, Image count, and Retention policy. The 'ibmproject' namespace has a resource group of 'Default', 1 repository, 1 image, and a retention policy of 'Retain all images'.

Name	Resource group	Repository count	Image count	Retention policy
ibmproject	Default	1	1	Retain all images

The screenshot shows the IBM Cloud Container Registry interface. The left sidebar has a 'Repositories' tab selected, showing 1 item. The main content area is titled 'Repositories' and shows a table with one repository: 'ibmproject'. The table has columns for Name, Image count, Namespace, and Last updated. The 'ibmproject' repository has an image count of 1, a namespace of 'ibmproject', and was last updated 9 hours ago.

Name	Image count	Namespace	Last updated
ibmproject	1	ibmproject	9 hours ago

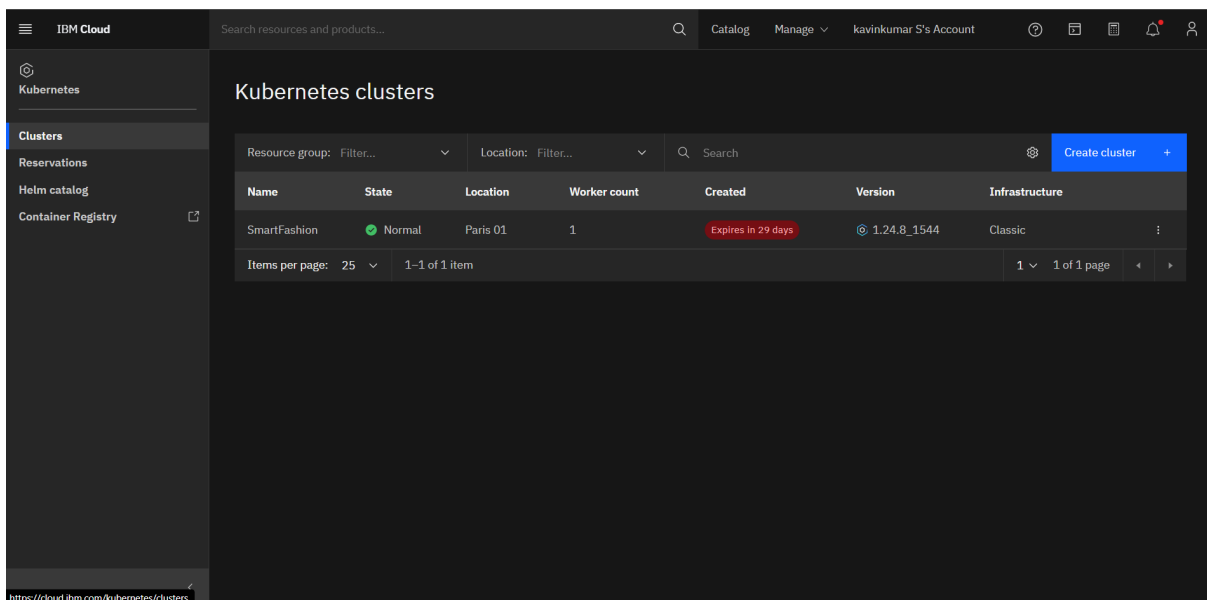


Deploy application to Kubernetes

ibmcloud ks cluster config --cluster SmartFashion

kubectll config current-context

kubectll expose deployment smartfashion --type=NodePort --name=service



kubernetes

default

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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

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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