ASSIGNMENT 4

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

   docker pull uifd/ui-for-docker

   docker run -d -p 9000:9000 --privileged -v

   /var/run/docker.sock:/var/run/docker.sock uifd/ui-for- docker
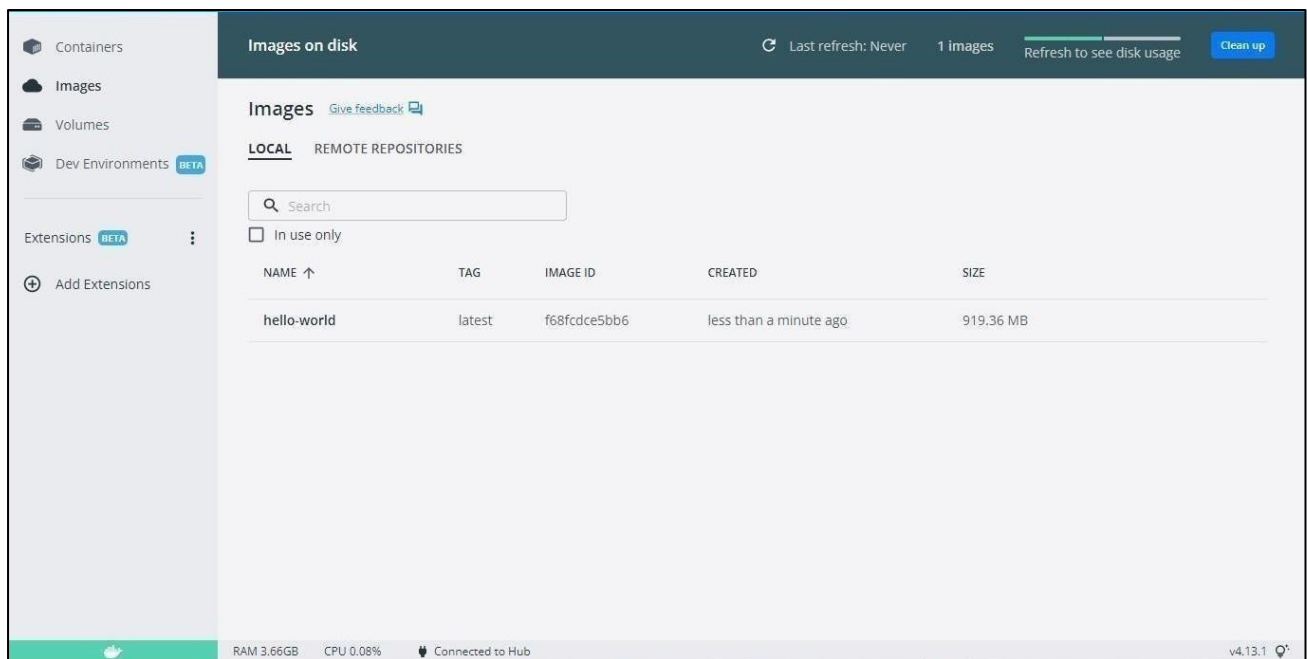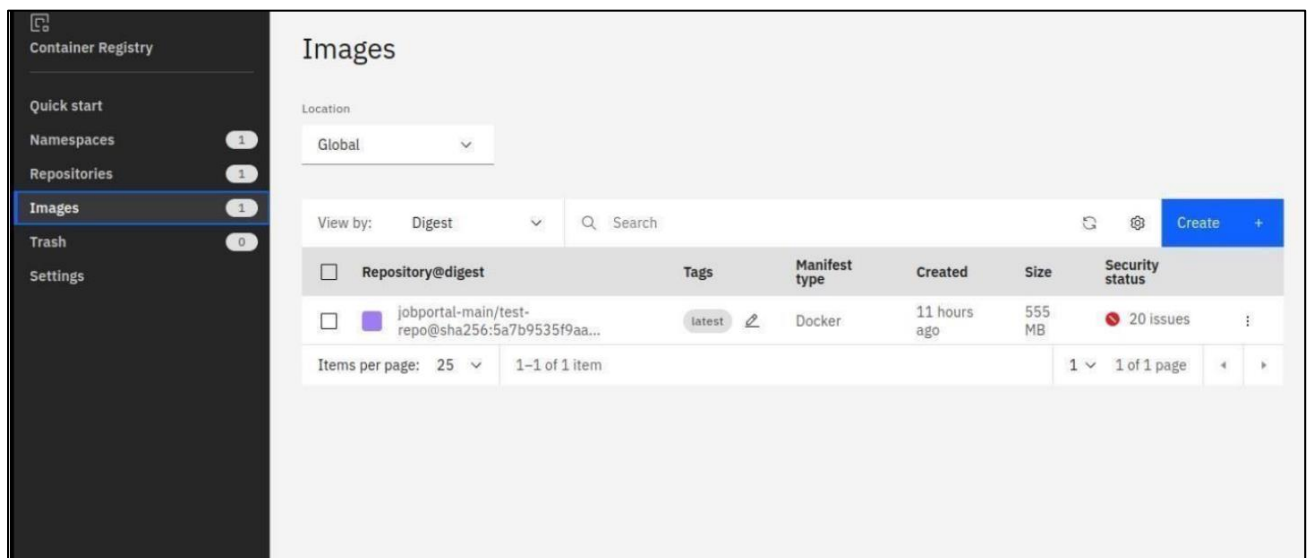
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.

```
FROM helloworld:latest
WORKDIR ~/Desktop/
ADD . helloworld/
WORKDIR ~/Desktop/htmlfile
RUN pip install -r requirements
RUN chmod +x app.sh
CMD
```


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.

apiVersion: v1 kind:

Service metadata:

name: hello-world- deployment spec:

ports: - port:

5000 targetPort:

5000 selector: app:

hello-world --- apiVersion: apps/v1 kind: Deployment metadata: name:

hello-world- deployment spec:

replic as: 1 select or:

matchLabels: app: helloworld

template: meta da ta :

la be ls :

app: hello- world spec:

containers:

-      name: hello-world image: au.icr.io/hello-worldapp/helloworld imagePullPolicy:

Always ports:

-      containerPort: 5000