## **ASSIGNMENT - 4**

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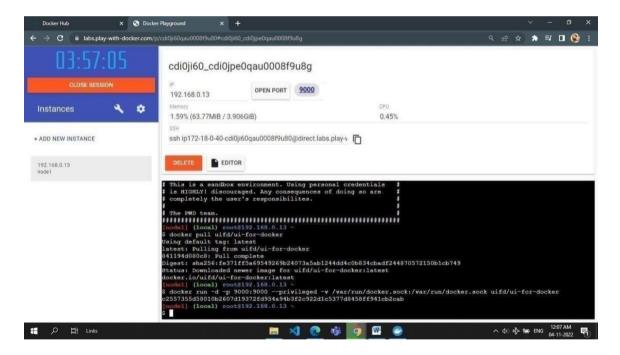
1: Pull an image from docker hub and run it on docker playground.

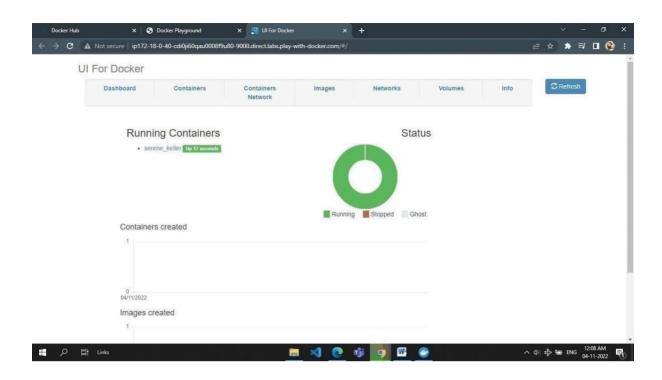
## **Solution 1:**

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

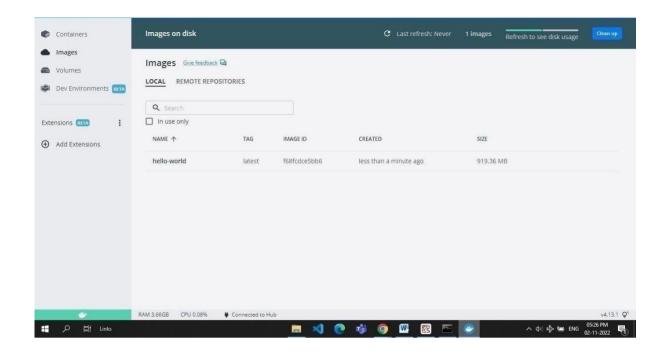




**2:** Create a docker file for the job portal app or hello world app and deploy it in docker desktop app. **Solution 2:** 

## **Docker file**

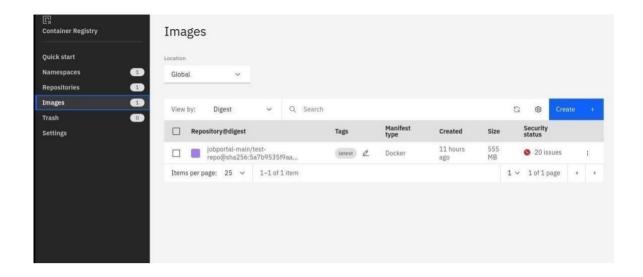
```
Dockerfile - Notepad
File Edit Format View Help
FROM python:3.8
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
EXPOSE 5000
CMD ["python", "app.py"]
```



3:Create an IBM container registry and deploy helloworld app or job portal app.

## Solution 3:

My image link: au.icr.io/hello-world-app/hello-world



**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.

```
Solution 4: apiVersion: v1 kind:
Service metadata: name: helloworld- 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/helloworldapp/helloworld
            imagePullPolicy: Always ports:
          - containerPort: 5000
```

