

## 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
```

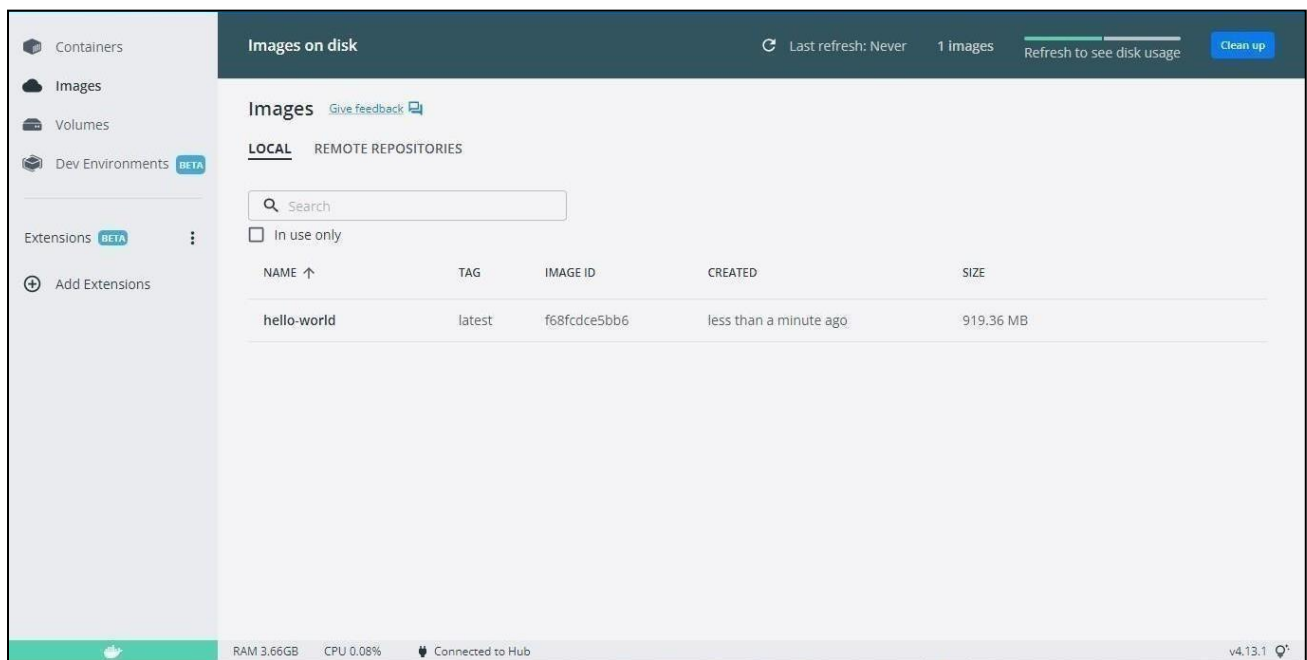
```
docker run -d -p 9000:9000 --privileged -v
```

```
/var/run/docker.sock:/var/run/docker.sock uifd/ui-for- docker
```

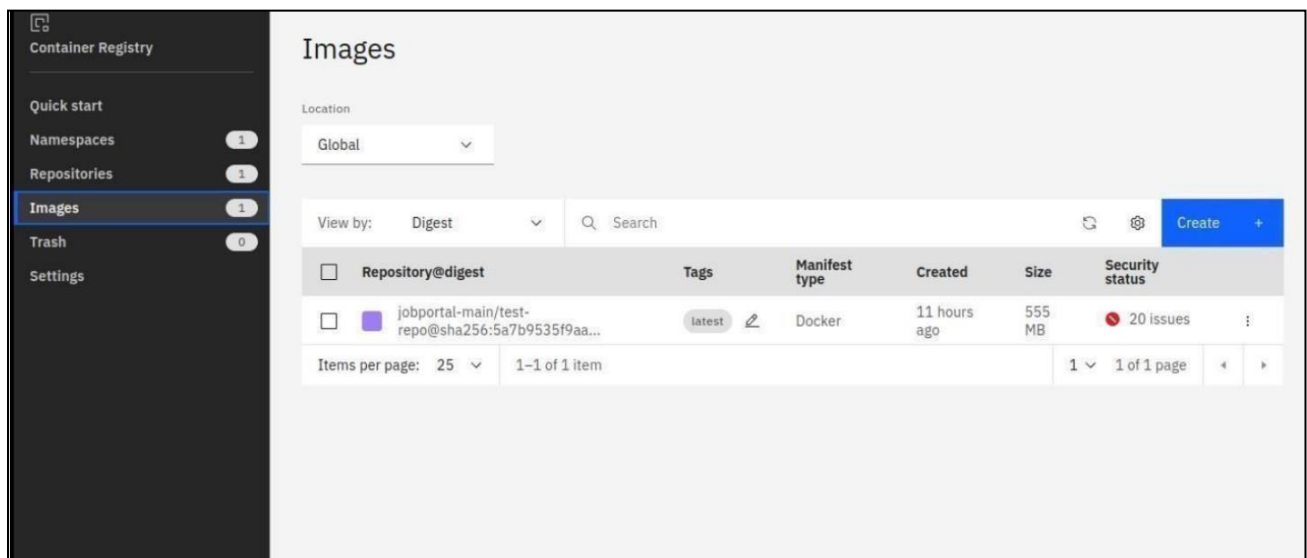
The screenshot displays the Docker Playground interface. At the top, a blue header shows the time 03:57:05 and a 'CLOSE SESSION' button. Below this, the 'Instances' section lists a single instance named 'node1' with IP 192.168.0.13. The main panel shows the details of the selected instance 'cdi0ji60\_cdi0jpe0qau0008f9u8g', including its IP (192.168.0.13), memory usage (1.59%), CPU usage (0.45%), and an SSH command. Below the instance details is a terminal window showing the command 'docker pull uifd/ui-for-docker' and its output. The bottom section shows the 'UI For Docker' dashboard with a navigation bar (Dashboard, Containers, Containers Network, Images, Networks, Volumes, Info) and a 'Refresh' button. The dashboard includes a 'Running Containers' section with a list of containers (serene\_keller, Up 47 seconds), a 'Status' section with a donut chart showing 1 Running, 0 Stopped, and 0 Ghost containers, and a 'Containers created' section with a bar chart showing 1 container created on 04/11/2022. The 'Images created' section shows 1 image created.

## 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