ASSIGNMENT 4

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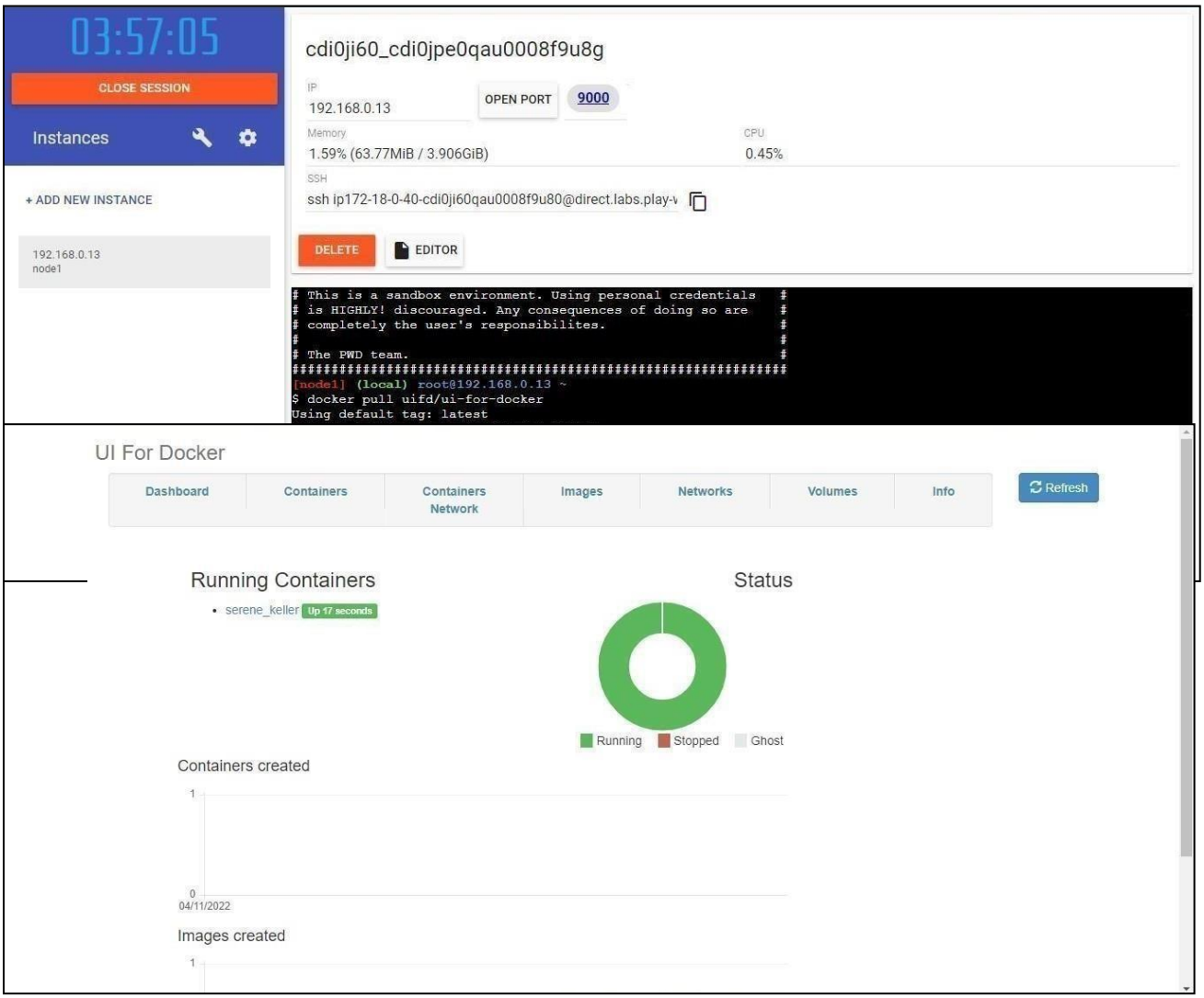
1. **Pull an Image from docker hub and run it in docker playground.**

   docker pull uifd/ui-for-docker

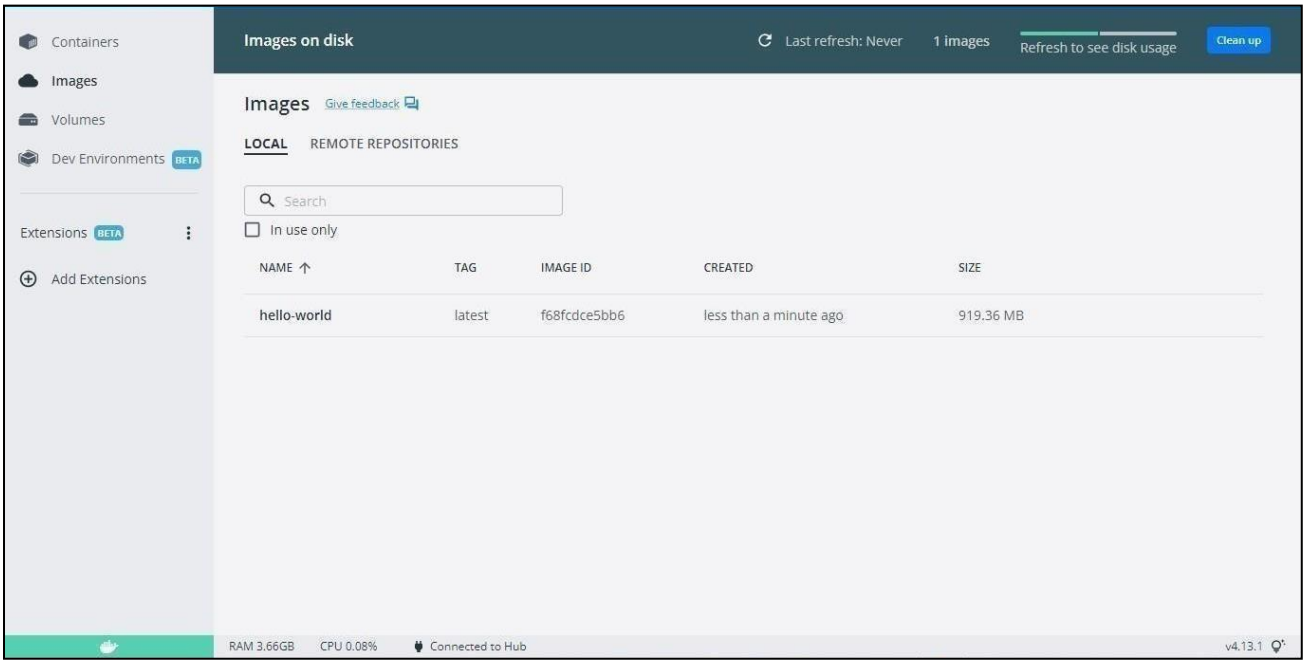
   docker run -d -p 9000:9000 --privileged -v

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

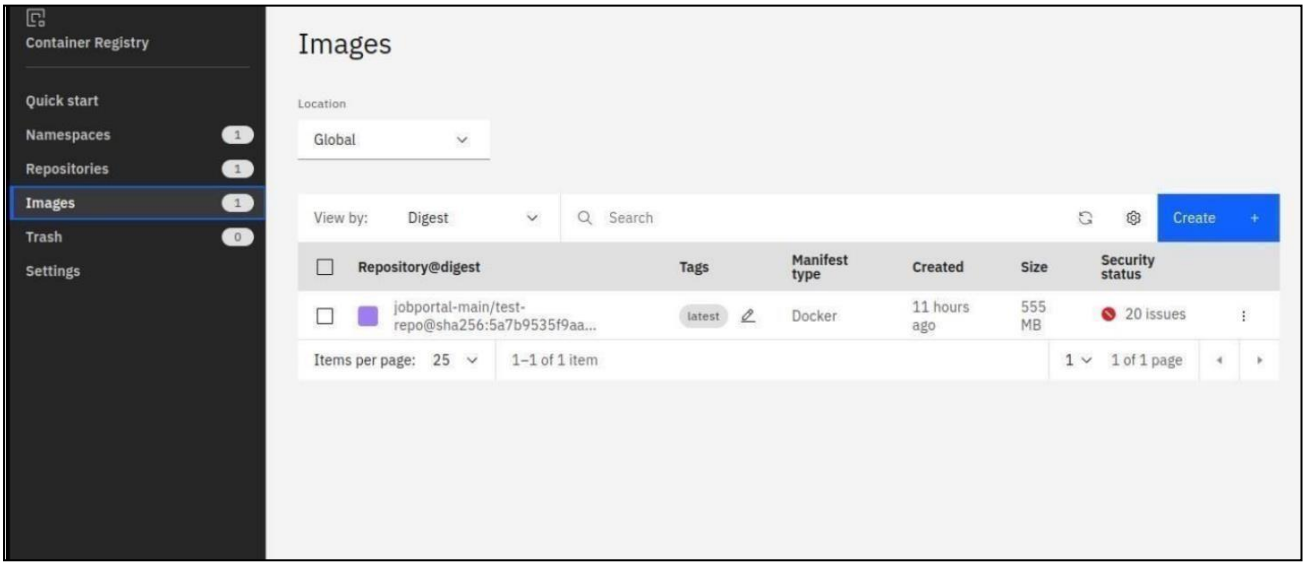


2. Create a docker file for the jobportal application and deploy it in Docker desktop application.

```
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