

## ASSIGNMENT - 4

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

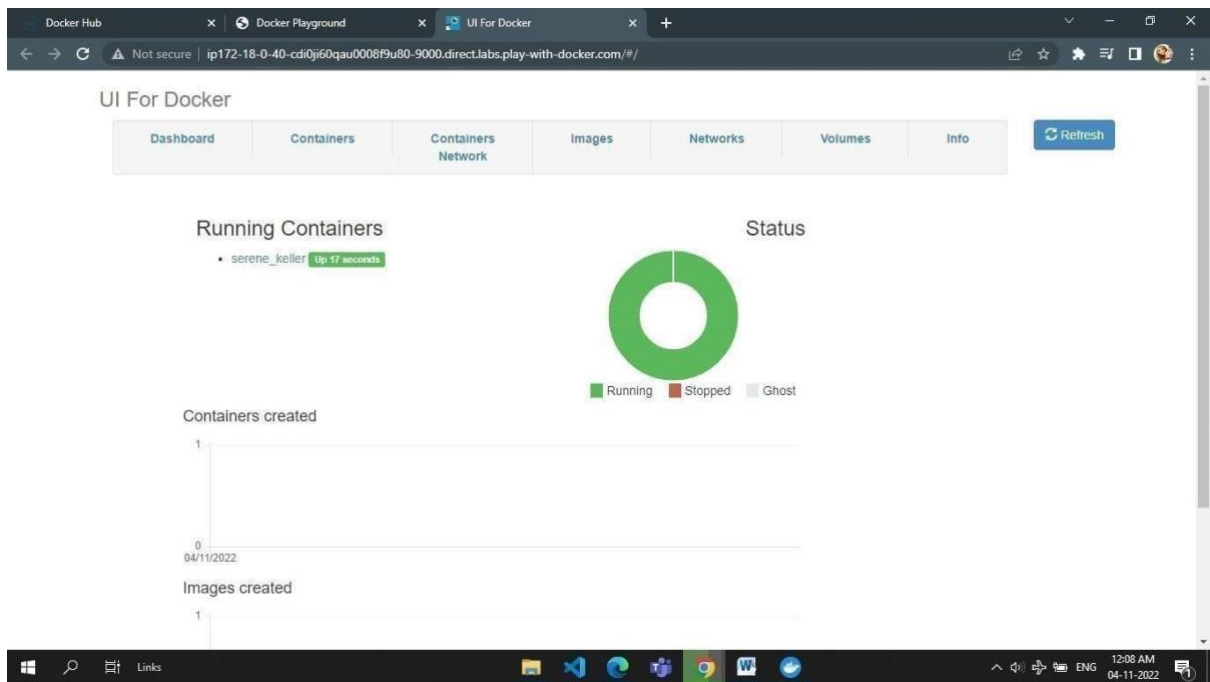
### Solution 1:

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

The screenshot displays the Docker Playground interface in a web browser. On the left, there's a sidebar with a clock showing 03:57:05, a 'CLOSE SESSION' button, and a list of instances. The main area shows details for an instance named 'cdi0jj60\_cdi0jpe0qau0008f9u8g' with IP 192.168.0.13. Below this, there's a terminal window showing the following commands and output:

```
# This is a sandbox environment. Using personal credentials  
# is HIGHLY! discouraged. Any consequences of doing so are  
# completely the user's responsibilities.  
#  
# The FWD team.  
#####  
[node1] (local) root@192.168.0.13 ~  
$ docker pull uifd/ui-for-docker  
Using default tag: latest  
latest: Pulling from uifd/ui-for-docker  
841194d080c8: Pull complete  
Digest: sha256:fe371ff5a69549269b24073a5b1244dd4c0b834cbadf244870572150b1cb749  
Status: Downloaded newer image for uifd/ui-for-docker:latest  
docker.io/uifd/ui-for-docker:latest  
[node1] (local) root@192.168.0.13 ~  
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker  
c2557355d58010b2607d19372fd954a94b3f2c922d1c5377d8458ff941cb2cab  
[node1] (local) root@192.168.0.13 ~  
$
```

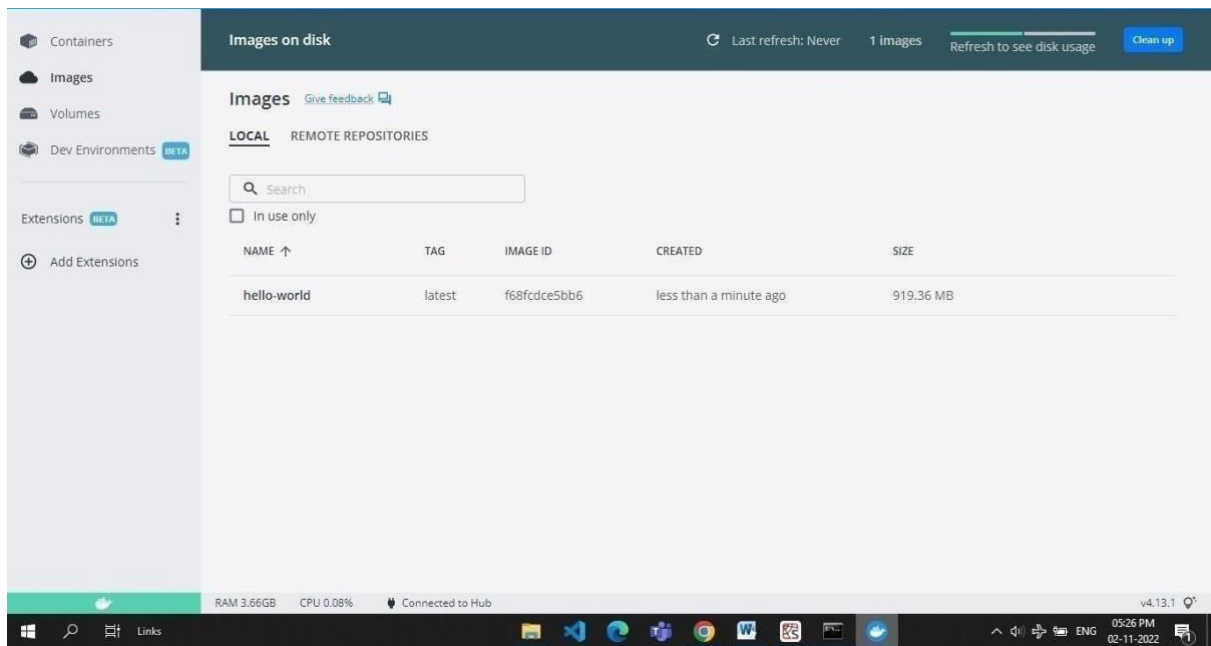


**2: Create a docker file for the job portal app or hello world app and deploy it in docker desktop app. Solution 2:**

### Docker file

Dockerfile - Notepad

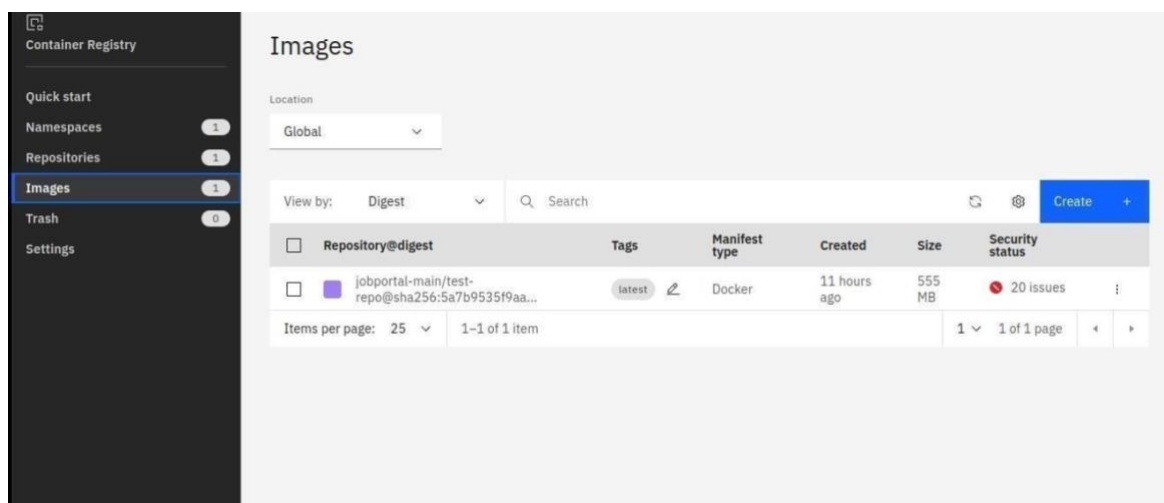
```
File Edit Format View Help
FROM python:3.8
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
EXPOSE 5000
CMD ["python", "app.py"]
```



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

Solution 3:

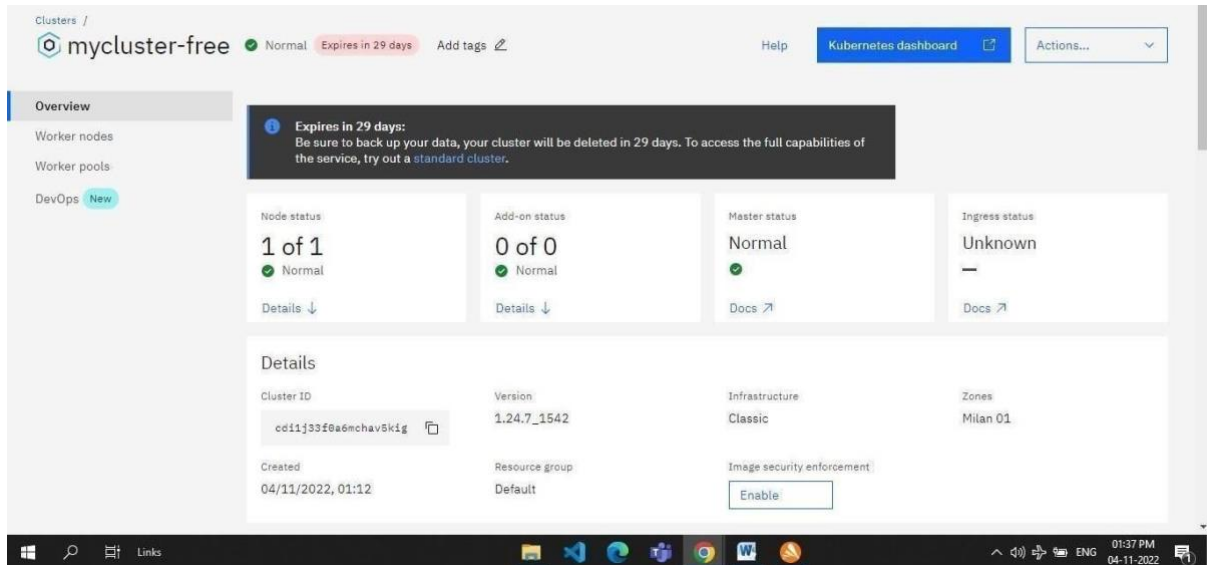
**My image link:** [au.icr.io/hello-world-app/hello-world](https://au.icr.io/hello-world-app/hello-world)




**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:
  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
```



 **kubernetes**

default

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Workloads > Pods > hello-world-deployment-6c75b9c898-p4ntv > Logs

Workloads

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses

Ingress Classes

Services

Config and Storage


Logs from hello-world in hello-world-dep...

```
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.30.82.142:5000
Press CTRL+C to quit
```

Logs from Nov 4, 2022 to Nov 4, 2022 UTC

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cdt1j33f0afmchav5kig/.../ser...

Links



03:49 PM  
04-11-2022