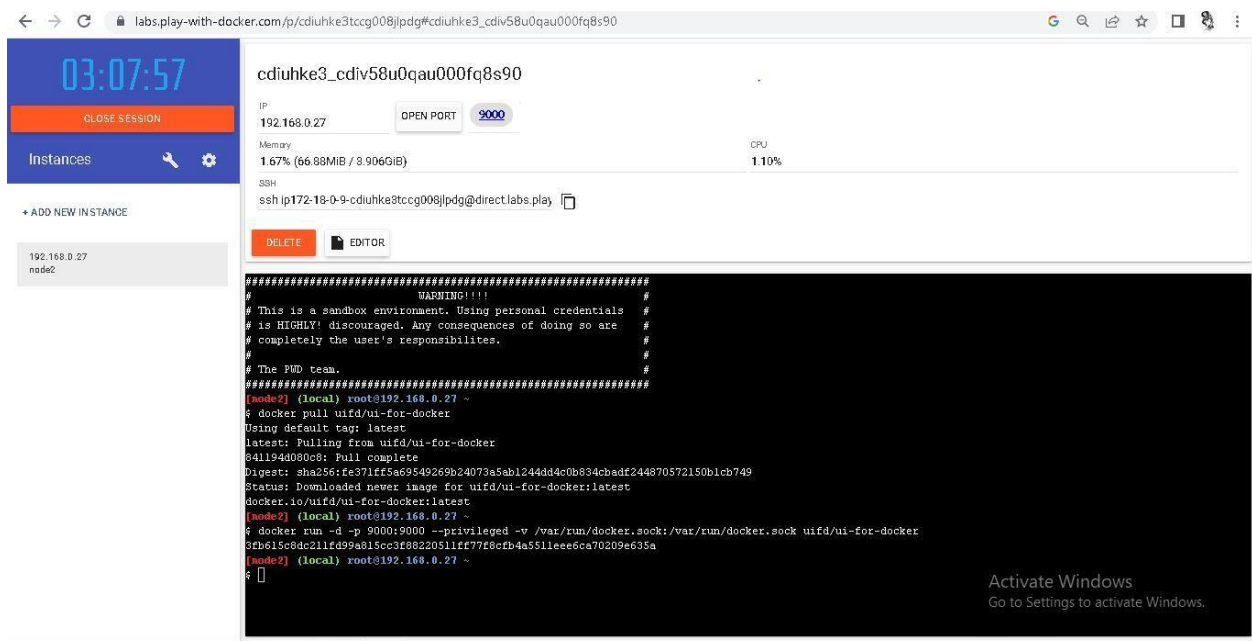


ASSIGNMENT -4

Question 1:

Pull an image from Docker hub and run it on Docker playground.

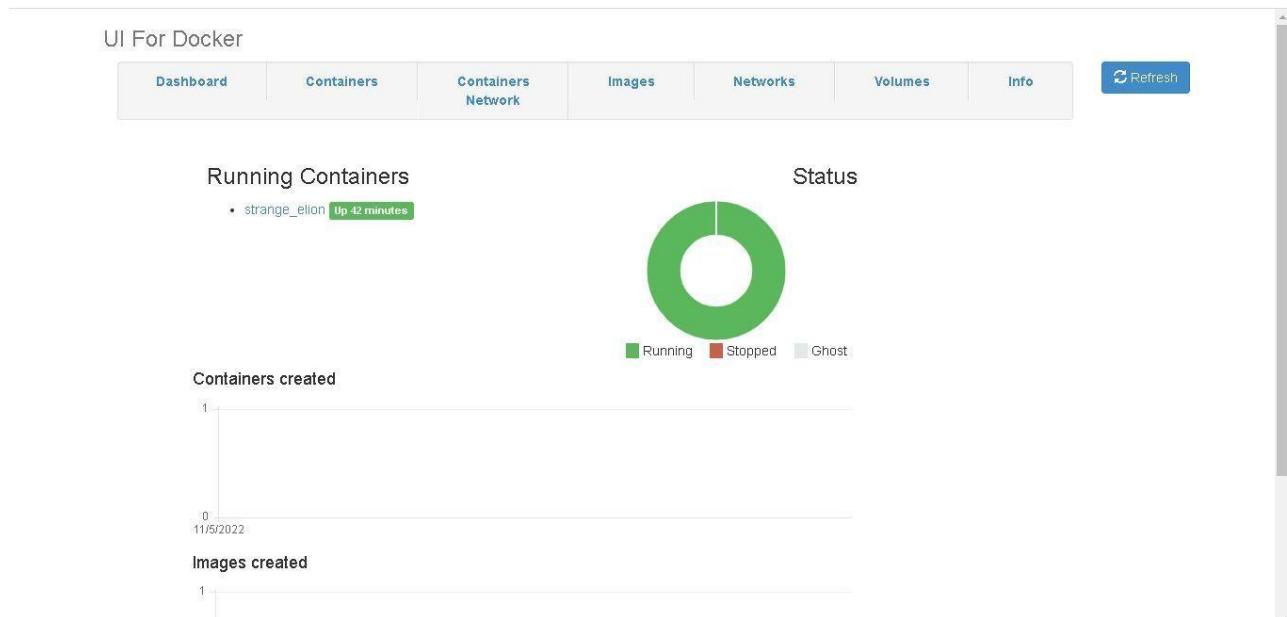
\$ Docker pull uifd/ui-for-Docker



The screenshot displays the Docker Playground web interface. On the left, a sidebar shows a clock at 03:07:57, a 'CLOSE SESSION' button, and a list of instances including '192.168.0.27 node2'. The main panel shows a session titled 'cdiuhke3_cdiv58u0qau000fq8s90' with IP '192.168.0.27', memory usage of 1.67%, and CPU usage of 1.10%. Below this, a terminal window shows the following commands and output:

```
#####  
# WARNING!!!!  
# 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.  
#####  
[node2] (local) root@192.168.0.27 ~  
$ docker pull uifd/ui-for-docker  
Using default tag: latest  
latest: Pulling from uifd/ui-for-docker  
641194d080c8: Pull complete  
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749  
Status: Downloaded newer image for uifd/ui-for-docker:latest  
docker.io/uifd/ui-for-docker:latest  
[node2] (local) root@192.168.0.27 ~  
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker  
3b61e8dc211fd99a816cc3f88220511ff77f8c8b4a5511ee6ca70209e635a  
[node2] (local) root@192.168.0.27 ~  
$
```

An 'Activate Windows' watermark is visible in the bottom right corner of the terminal area.



Question 2:

Create a Docker file for the job portal app or hello world app and deploy it in Docker desktop app.

dockers - 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"]

Containers

Images

Volumes

Dev Environments BETA

Extensions BETA

Add Extensions

Images on disk

Last refresh: Never 1 Images Refresh to see disk usage Clean up

Images [Give feedback](#)

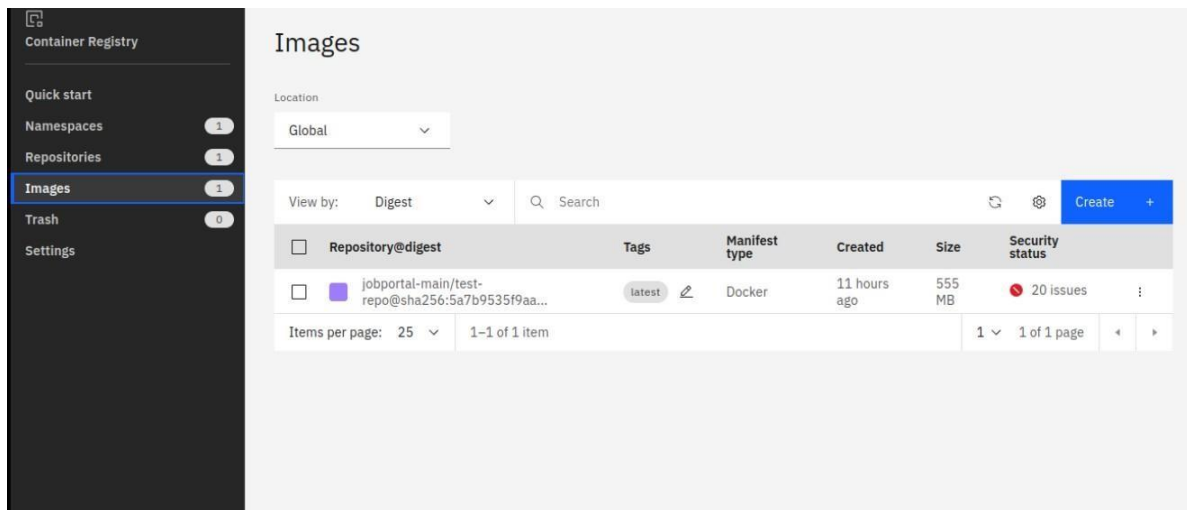
LOCAL REMOTE REPOSITORIES

☐ In use only

NAME ↑	TAG	IMAGE ID	CREATED	SIZE
hello-world	latest	f68fcdce5bb6	less than a minute ago	919.36 MB

Question 3:

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



Question 4:

Create a kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

```

Api Version:
v1kind:
Service
metadata:
  name: hello-world-
deployment spec:
  ports:
    - port: 5000 target
    Port: 5000selector:
    app: hello-world
---api Version:
apps/v1kind:
Deployment
metadata:
  name: hello-world-
deployment spec:
  replicas:
  1 selector
or:
  match Labels:
    app: hello-
world template:
  meta
  da
  ta
  :
  la
  be
  ls
  : app: hello-
World spec:
  containers:

```

- name: hello-world image: au.icr.io/hello-world-app/hello-world image Pull Policy: Always ports:
- container Port: 5000

Clusters / mycluster-free Normal Expires in 29 days [Add tags](#) [Help](#) [Kubernetes dashboard](#) [Actions...](#)

Overview

Worker nodes
Worker pools
DevOps New

Expires in 29 days:
Be sure to back up your data, your cluster will be deleted in 29 days. To access the full capabilities of the service, try out a [standard cluster](#).

Node status 1 of 1 Normal Details ↓	Add-on status 0 of 0 Normal Details ↓	Master status Normal Normal Docs ↗	Ingress status Unknown Unknown Docs ↗
---	---	--	---

Details

Cluster ID cd11j33fi0a6mchav5k1g Copy	Version 1.24.7_1542	Infrastructure Classic	Zones Milan 01
Created 04/11/2022, 01:12	Resource group Default	Image security enforcement Enable	

kubernetes default [Search](#) [+](#) [🔔](#) [👤](#)

[Workloads](#) > [Pods](#) > [hello-world-deployment-6c75b9c898-p4ntv](#) > [Logs](#)

Workloads N

- Cron Jobs
- Daemon Sets
- Deployments
- Jobs
- Pods
- Replica Sets
- Replication Controllers
- Stateful Sets

Service

- Ingresses N
- Ingress Classes
- Services N

Config and Storage

Logs from hello-world in hello-world-dep... [Download](#)

```
* 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 [I](#) [<](#) [>](#)

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cd11j33fi0a6mchav5k1g/.../set...