ASSIGNMENT -4 : DOCKER DESKTOP (Kubernet)

Assignment Date	9/11/2022
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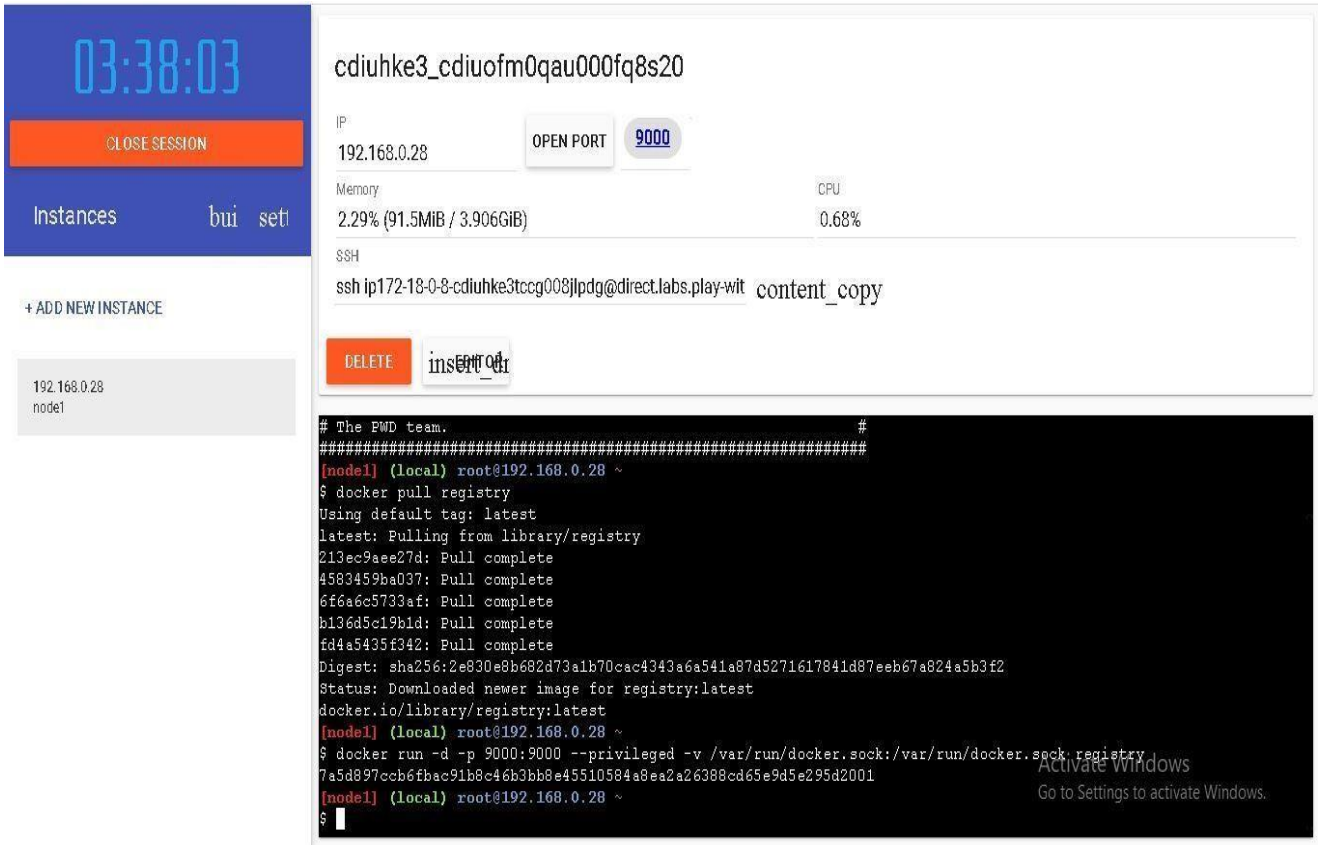
Student Roll no	921319104026
Marks	2 marks

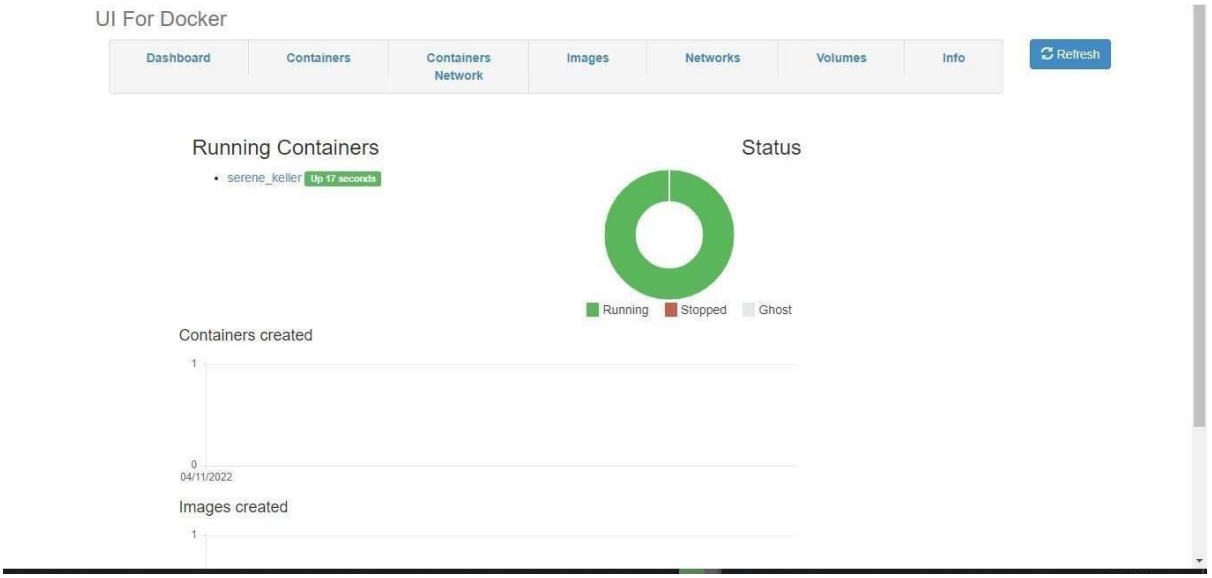
Question 1:

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

docker pull registry

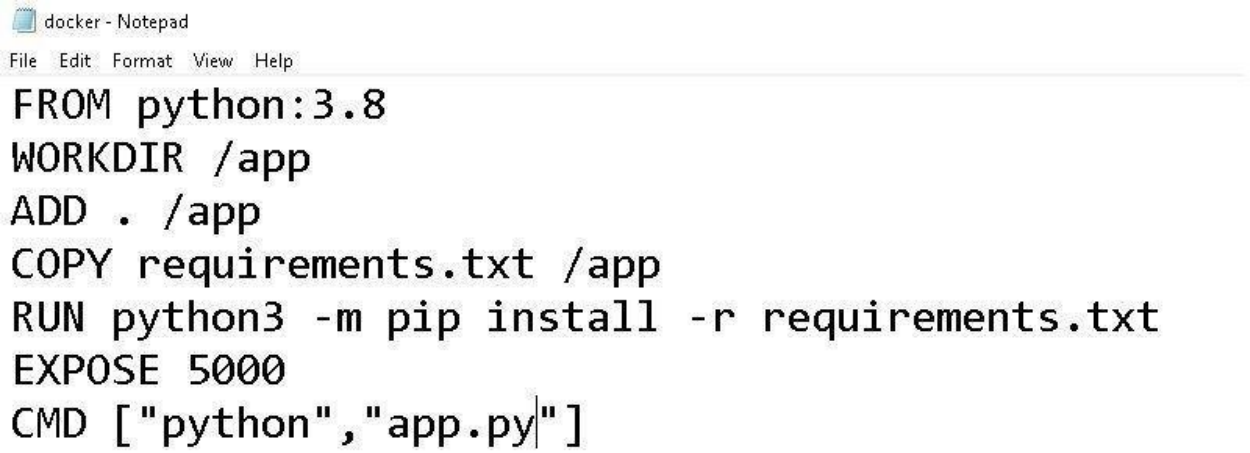
docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock registry

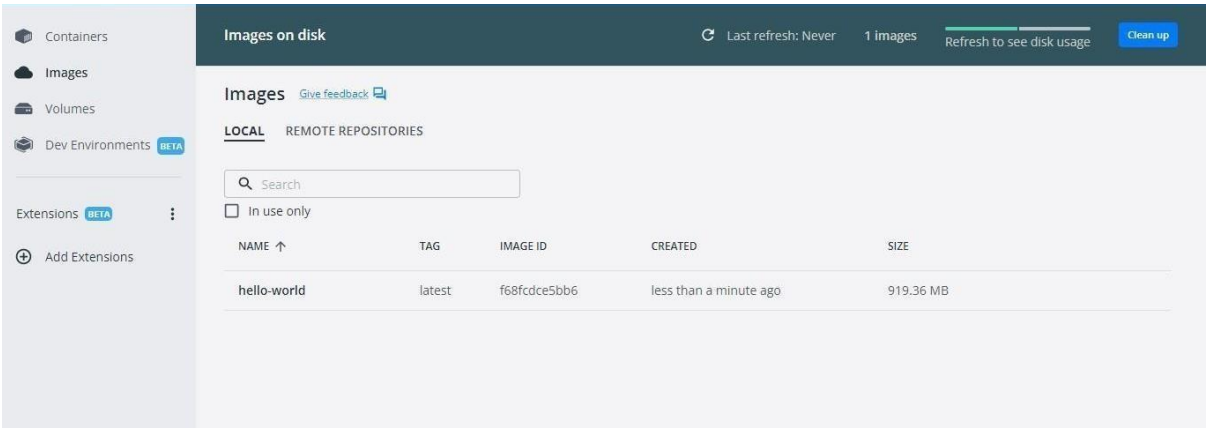




Question 2:

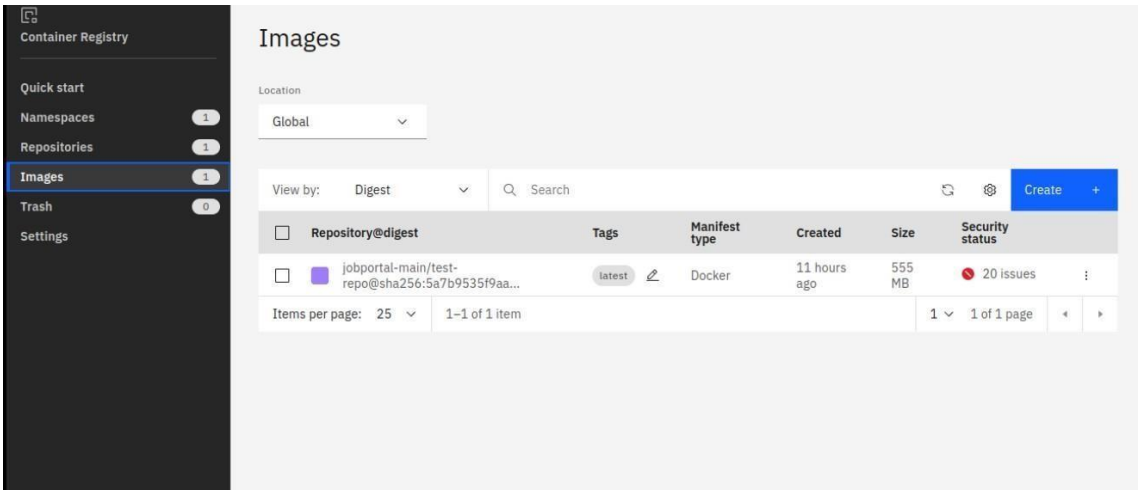
Create a docker file for the job portal app or hello world app and deploy it indocker desktop app.





Question 3:

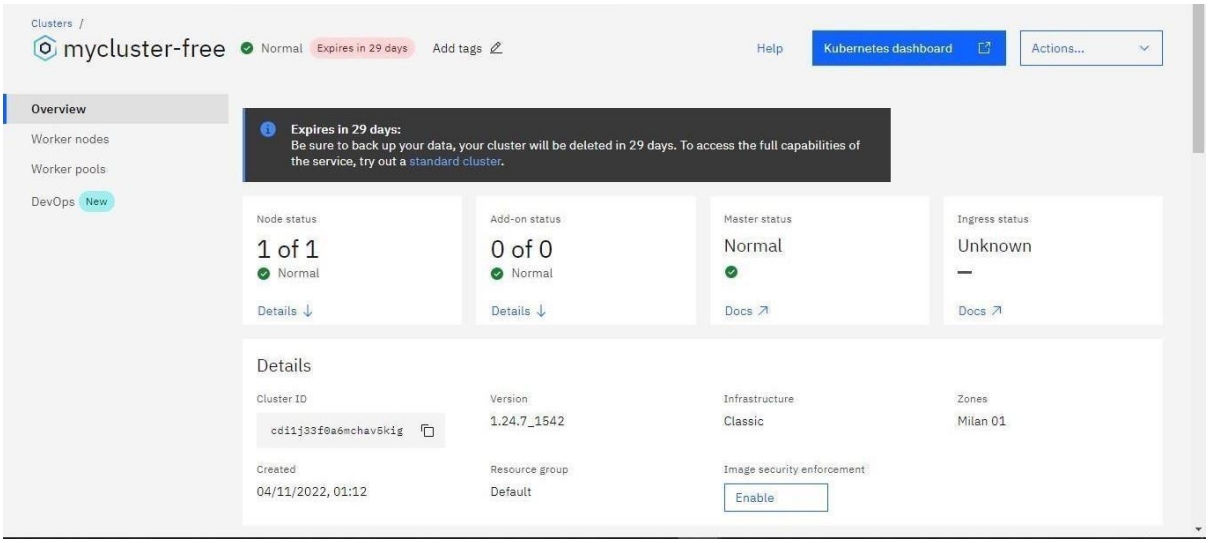
Create an IBM container registry and deploy helloworld app or job portalapp.

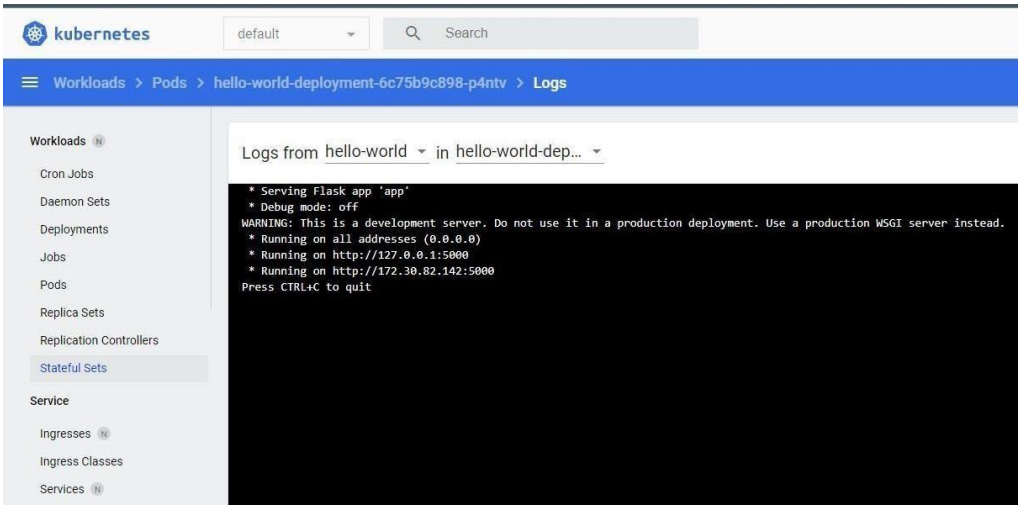


Question 4:

Create a kubernetes cluster in IBM cloud and deploy helloworld imageor job portal image and also expose the same app to run in nodeport.

```
apiVersion:
v1kind:
Service
metadata:
      name: hello-world-
   deploymentspec:
      ports:
      - port: 5000
         targetPort:
      5000selector: app:
         hello-world
   ---
   apiVersion:
   apps/v1kind:
   Deployment
   metadata:
      name: hello-world-
   deploymentspec:
      replic
      as: 1
      select
      or:
         matchLabels: app:
            hello-
      worldtemplate:
         meta
            da
            ta
            :
            la
            be
            ls
            :
               app: hello-
         worldspec:
            containers:
            - name: hello-world
               image: au.icr.io/hello-world-app/hello-
               worldimagePullPolicy: Always
               ports:
               - containerPort: 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
Docs
Ingress status
Unknown
Docs
Details
Cluster ID
cdi1j33f0a6mchav5kig
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
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
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