

Assignment-4

Assignment Date	02 November 2022
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Maximum Marks	2 Marks

Question-1:

1) Pull an image from docker hub and run it in docker playground.

Docker Playground:

The screenshot shows the Docker Playground web interface. On the left, there's a sidebar with a clock showing 03:57:38, a 'CLOSE SESSION' button, and an 'Instances' section with a '+ ADD NEW INSTANCE' button. Below that, a card shows the IP 192.168.0.13 and the name 'node1'. The main area displays the instance 'cd8i6se3_cd8i6ue3tccg00fgc8sg' with its IP 192.168.0.13, memory usage (1.17% / 46.91MiB / 3.906GiB), and CPU usage (0.63%). There are 'DELETE' and 'EDITOR' buttons. Below this is a terminal window showing the following commands and output:

```
# The PWD team.
#####
[node1] (local) root@192.168.0.13 ~
$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:18a657d0cc1c7d0678a3fba8b7eb4918bba25968d3e1b0adebfa71caddbc346
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
[node1] (local) root@192.168.0.13 ~
$ docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
```

Question 2:

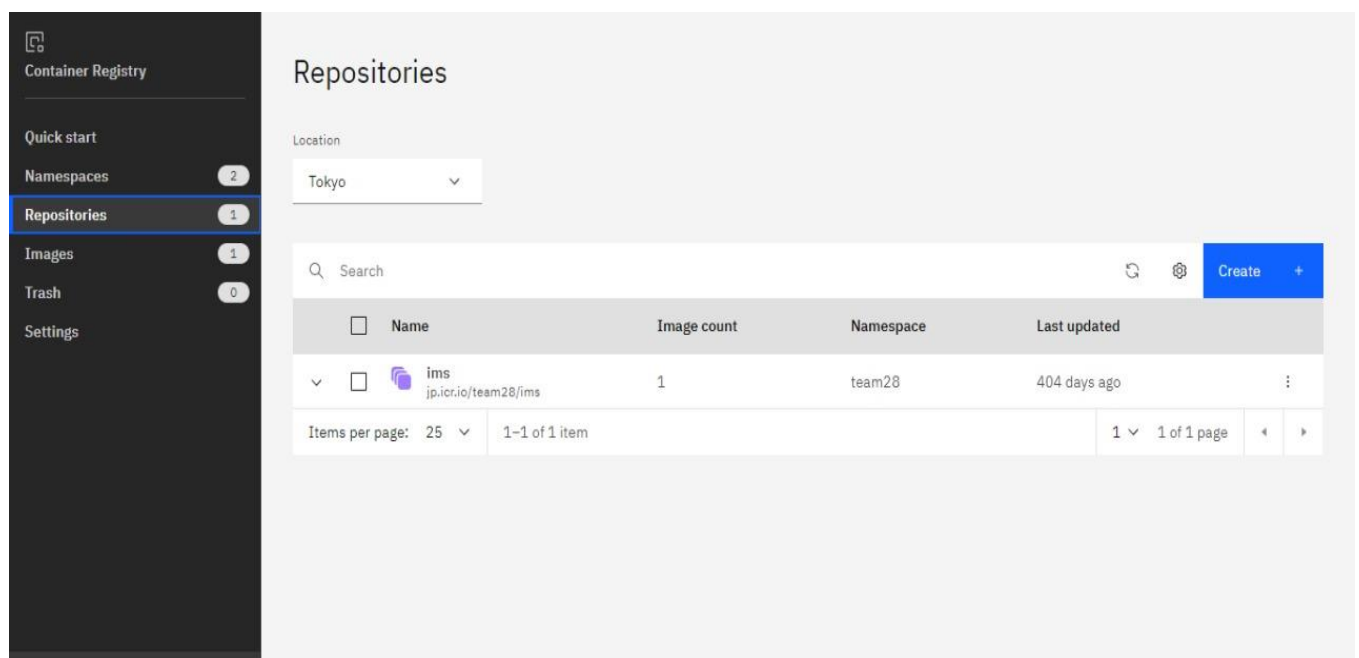
Create a docker file for the jobportal application and deploy it in Docker desktop application.

Question 3:

Create a IBM container registry and deploy helloworld app or jobportalapp.

```
OK Select C:\WINDOWS\system32\cmd.exe

Successfully added namespace 'team28'
OK
C:\Users\asus>ibmcloud cr login
Logging 'docker' in to 'jp.icr.io'...
Logged in to 'jp.icr.io'.
OK
C:\Users\asus>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
C:\Users\asus>docker tag hello-world jp.icr.io/team28/ims:latest
C:\Users\asus>docker push jp.icr.io/team28/ims:latest
The push refers to repository [jp.icr.io/team28/ims]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
C:\Users\asus>ibmcloud cr image-list
Listing images...
Repository      Tag      Digest      Namespace   Created      Size      Security status
jp.icr.io/team28/ims  latest  f54a58bc1aac  team28      1 year ago   2.5 kB    -
OK
C:\Users\asus>
```



Question 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.

