

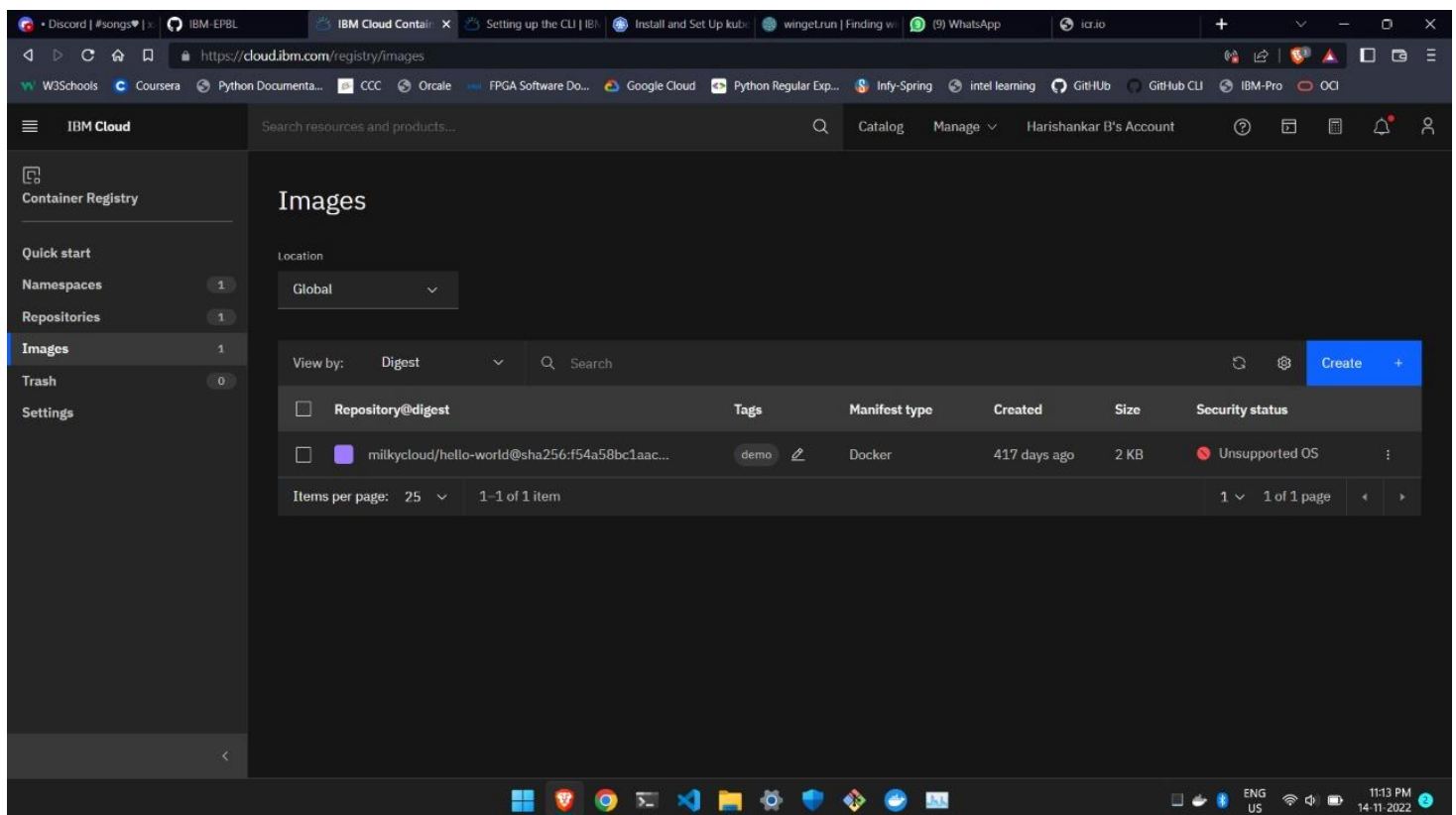
ASSIGNMENT-4

| | |
|-----------------|------------------|
| Assignment Date | 15 November 2022 |
| Team ID | PNT2022TMID54477 |
| Name | Akash C |
| Maximum Marks | 2 Marks |

Question 1:

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

```
PS C:\Windows\system32> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Windows\system32>
```



Question 2:

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

```
FROM helloworld:latest
```

```
WORKDIR ~/Desktop/
```

```
ADD . helloworld/
```

```
WORKDIR ~/Desktop/htmlfile
```

```
RUN pip install -r requirements
```

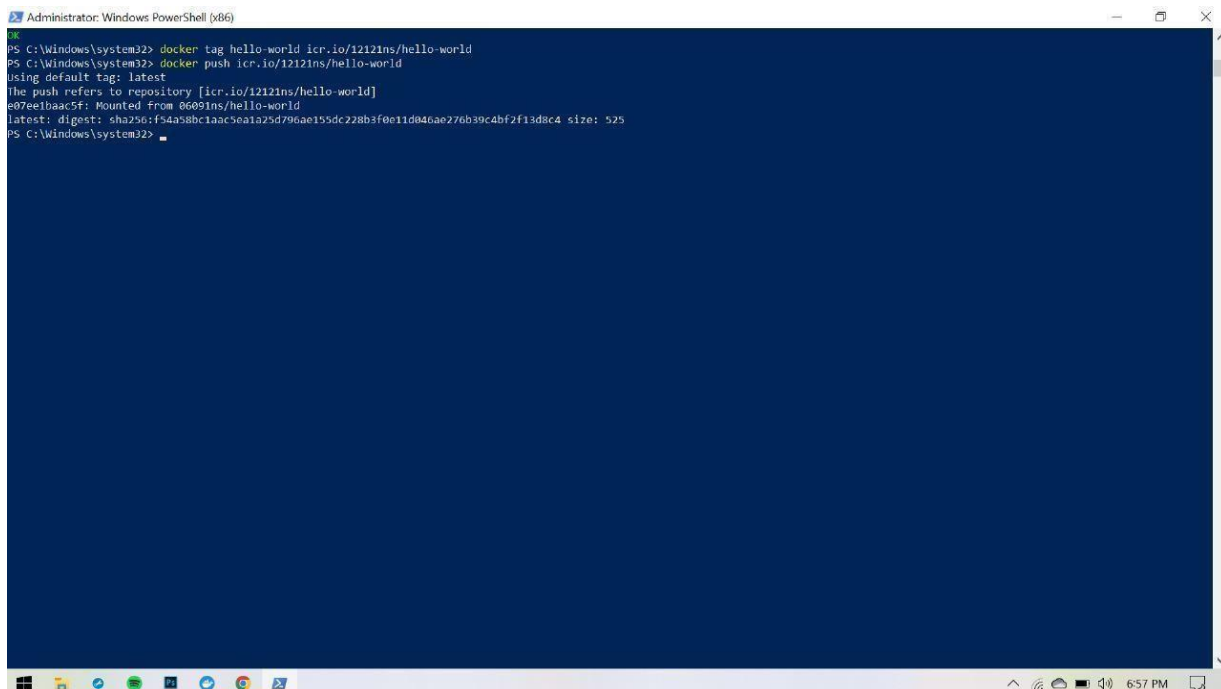
```
RUN chmod +x app.sh
```

```
CMD
```

```
["/bin/sh","app.sh"]
```

Question 3:

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



```
Administrator: Windows PowerShell (x86)
PS C:\Windows\system32> docker tag hello-world icr.io/12121ns/hello-world
PS C:\Windows\system32> docker push icr.io/12121ns/hello-world
using default tag: latest
The push refers to repository [icr.io/12121ns/hello-world]
e07ee1baac5f: Mounted from 06091ns/hello-world
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d040ae270b39c4bf2f13d8c4 size: 525
PS C:\Windows\system32>
```

Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or

The screenshot shows the IBM Cloud Kubernetes dashboard for a cluster named 'mycluster-free'. The cluster is in the 'Preparing master, workers...' state and expires in 30 days. The 'Worker nodes' tab is selected, showing a table with one worker node.

| Name | Status | Worker pool | Zone | Private IP | Public IP | Version |
|----------|-------------------|-------------|----------|------------|-----------|-------------|
| 0000008c | Provision pending | default | Milan 01 | | | 1.24.6_1541 |

The dashboard also includes a sidebar with navigation options like 'Overview', 'Worker nodes', 'Worker pools', and 'DevOps'. A 'Help' sidebar on the right lists various actions like 'Log in to your cluster', 'Deploy your app', and 'Troubleshoot'.

