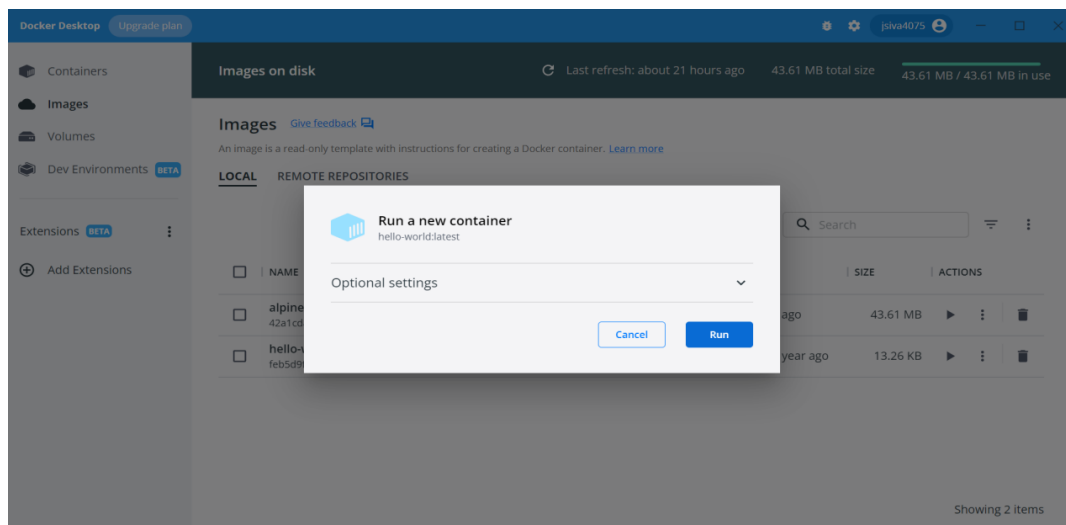
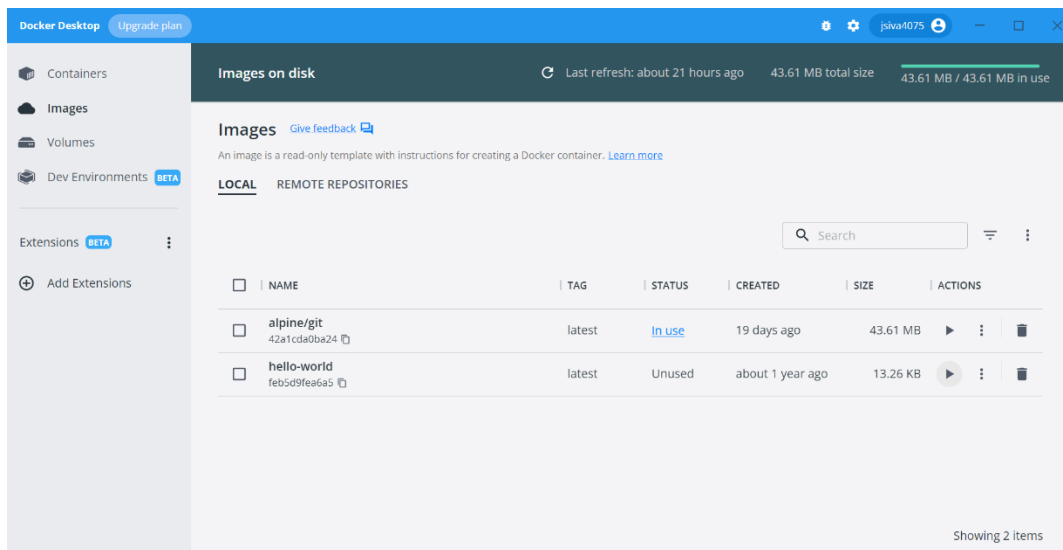
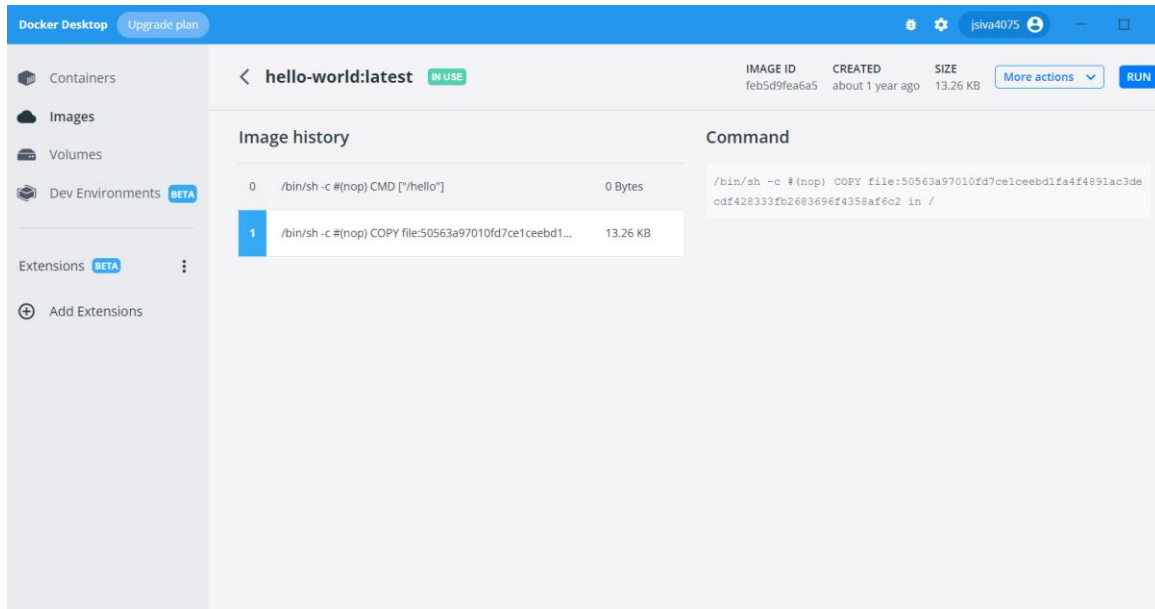


1. Pull an image from docker hub and run it in docker playground

```
PS C:\Users\admin> docker pull hello-world
Using default tag: latest
Error response from daemon: Get "https://registry-1.docker.io/v2/": dialing registry-1.docker.io:443 no HTTPS proxy: no proxy
olving host registry-1.docker.io: lookup registry-1.docker.io: no such host
PS C:\Users\admin> 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
PS C:\Users\admin>
```





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

```
FROM helloworld:sk
```

```
WORKDIR~/Desktop/
```

```
ADD.helloworld/
```

```
WORKDIR~/Desktop/IBMproj
```

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

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

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

3. Create an IBM container registry and deploy hello-world app or job portal app

```
PS C:\WINDOWS\system32> docker tag hello-world icr.io/67890ns/hello-world
PS C:\WINDOWS\system32> docker push icr.io/67890ns/hello-world
Using default tag: latest
The push refers to repository [icr.io/67890ns/hello-world]
e07eelbaac5f: Mounted from 54321ns/hello-world
latest: digest: sha256:f54a58bclaac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
PS C:\WINDOWS\system32> ibmcloud cr image-list
Listing images...
```

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

The screenshot shows the IBM Cloud Clusters management interface. The cluster 'mycluster-shuaib' is in a 'Normal' state and expires in 30 days. The 'Worker nodes' tab is selected, displaying a table with one worker node.

| Name | Status | Worker pool | Zone | Private IP | Public IP | Version |
|----------|--------|-------------|----------|----------------|---------------|-------------|
| 00000018 | Normal | default | Milan 01 | 10.144.183.222 | 169.51.200.74 | 1.24.7_1543 |

This screenshot provides a more detailed view of the worker node '00000018'. It includes the node's ID, kube-cdi1pbs068brdq974qg-myclustersh-default-00000018, and its status as 'Free - 2 vCPUs 4GB RAM'. It also lists the Private VLAN (2218181) and Public VLAN (2218179).

| Name | Status | Worker pool | Zone | Private IP | Public IP | Version |
|--|--------|---|----------|--------------------------------|-------------------------------|-------------|
| 00000018 | Normal | default | Milan 01 | 10.144.183.222 | 169.51.200.74 | 1.24.7_1543 |
| ID kube-cdi1pbs068brdq974qg-myclustersh-default-00000018 | | | | | | |
| Status -- | | Flavor Free - 2 vCPUs 4GB RAM | | Private VLAN 2218181 | Public VLAN 2218179 | |