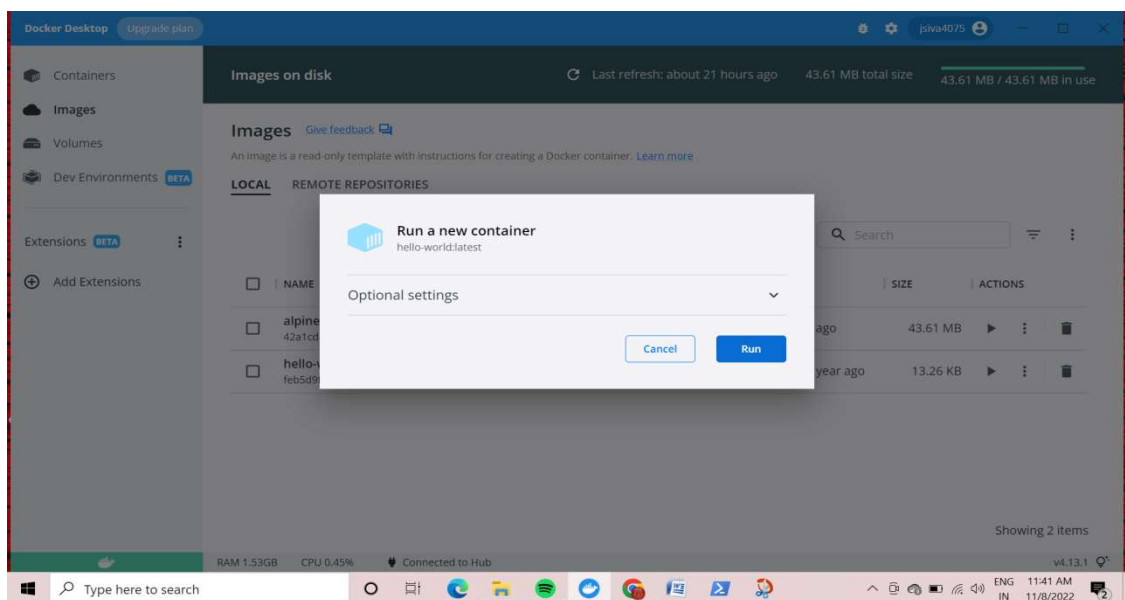
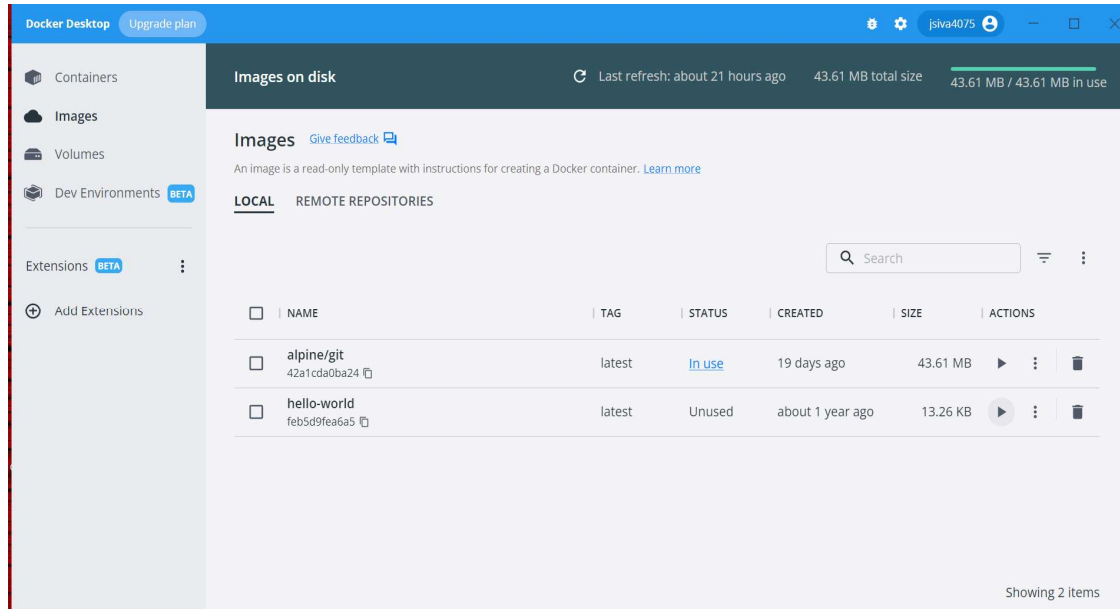
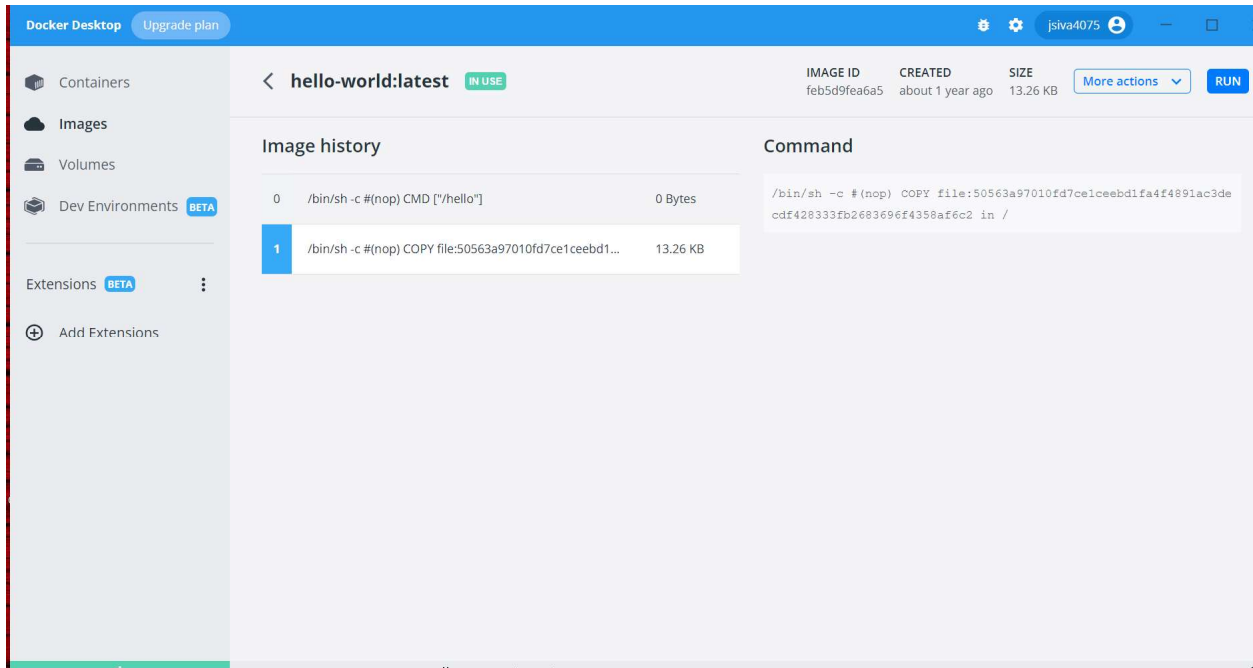


1. Pull an image from docker hub and run it in docker playground

```
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: r
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 a IBM container registry and deploy helloworld 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]
e07ee1baac5f: Mounted from 54321ns/hello-world
latest: digest: sha256:f54a58bc1aac5eala25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
PS C:\WINDOWS\system32> ibmcloud cr image-list
Listing images...
```

4. Create a Kubernetes cluster in IBM cloud and deploy helloworld images or job portal image and also expose the same app to run in nodeport.

The screenshot shows the IBM Cloud Clusters dashboard for a cluster named 'mycluster-siva'. The 'Worker nodes' tab is selected, displaying a table of worker nodes. The table has columns for Name, Status, Worker pool, Zone, Private IP, Public IP, and Version. One node is listed with ID '0000005f', status 'Normal', and version '1.24.7_1543'. The node is associated with the 'default' worker pool in the 'Milan 01' zone. The dashboard also shows a sidebar with navigation options like Overview, Worker nodes, Worker pools, and DevOps. A 'Kubernetes dashboard' button is visible in the top right.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
0000005f	Normal	default	Milan 01	10.144.186.76	159.122.174.108	1.24.7_1543

This screenshot shows the same IBM Cloud Clusters dashboard as the previous one, but with the details for the worker node '0000005f' expanded. The expanded view shows the node's ID as 'kube-cdl0fksf0vd6u2pr5cl0-myclustersi-default-0000005f'. It also displays the node's status as 'Normal', flavor as 'Free - 2 vCPUs 4GB RAM', private VLAN as '2218181', and public VLAN as '2218179'. The dashboard layout and navigation options remain the same.

ID	Status	Flavor	Private VLAN	Public VLAN
kube-cdl0fksf0vd6u2pr5cl0-myclustersi-default-0000005f	Normal	Free - 2 vCPUs 4GB RAM	2218181	2218179