

ASSIGNMENT 4

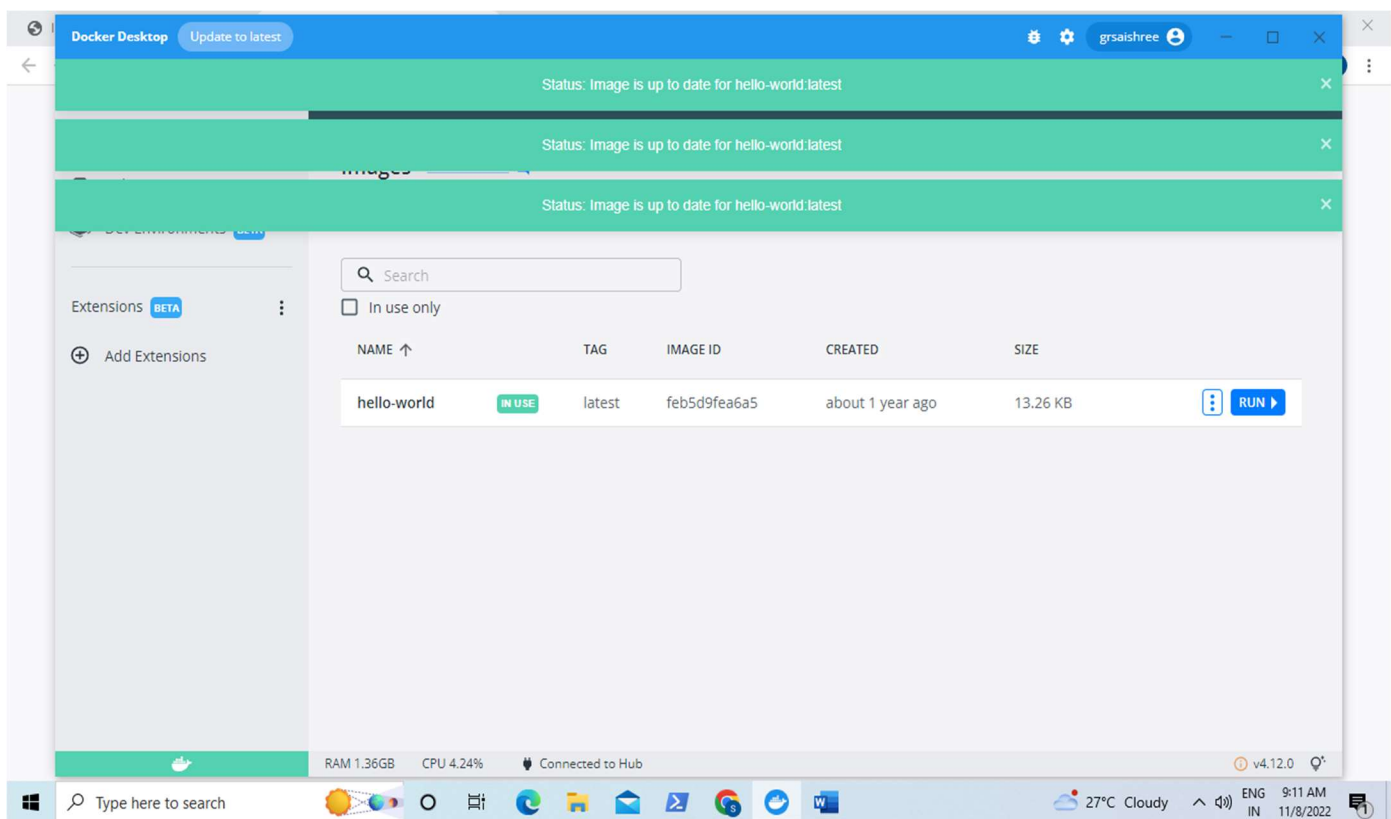
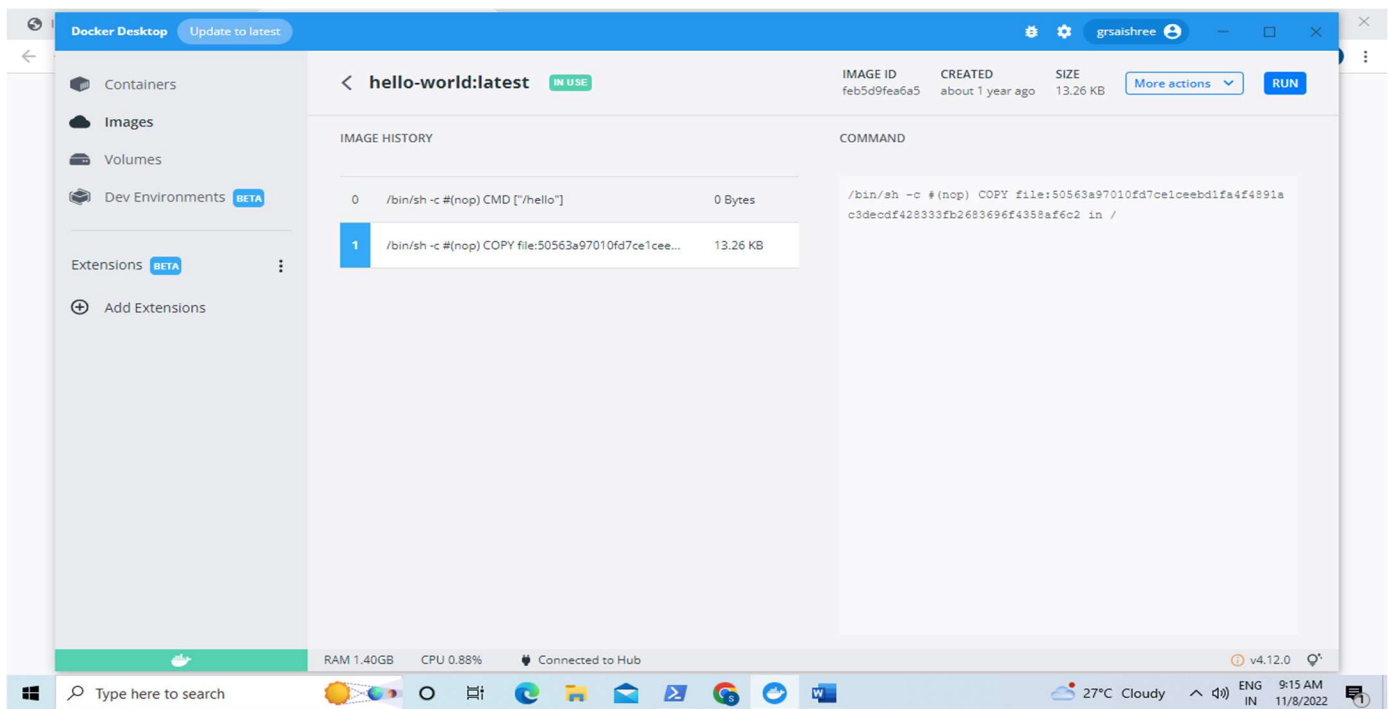
Student Name	G.R. Sai shree
Register Number	311419104068

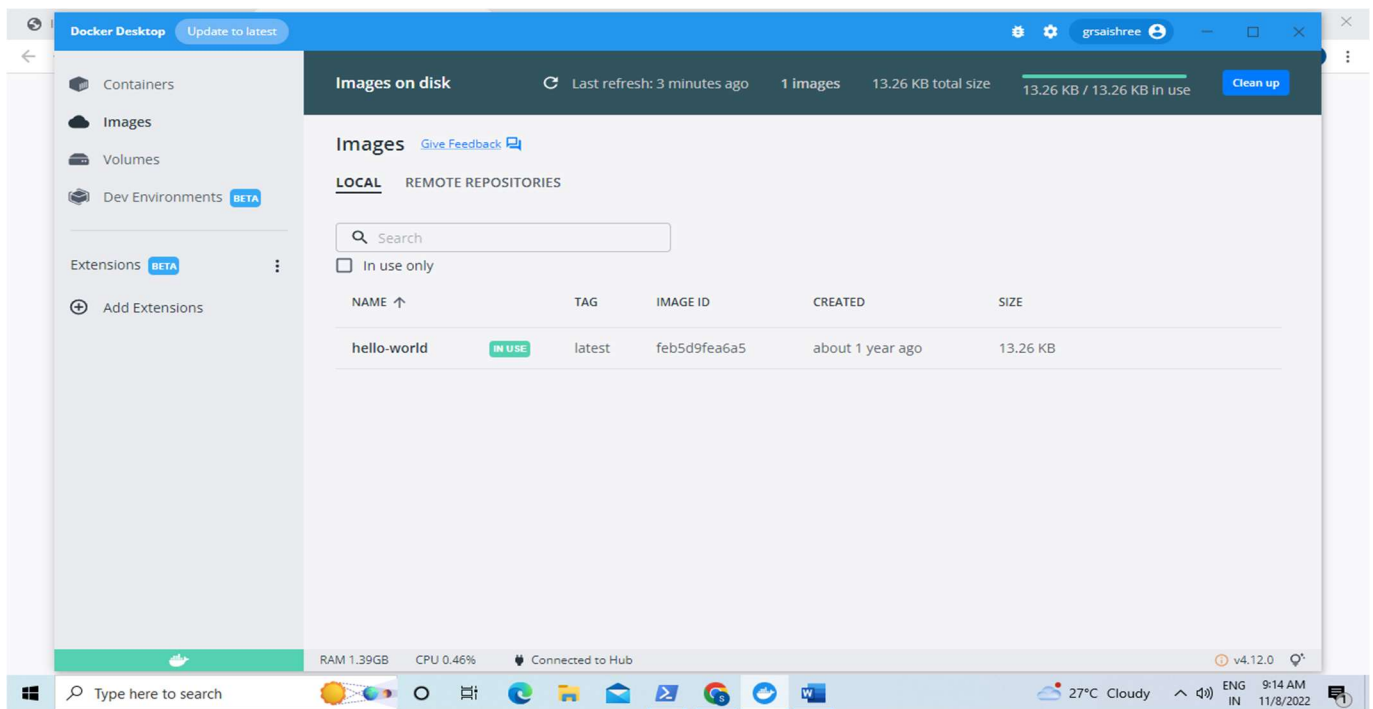
1. Pull an image from docker hub and run it in docker playground

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Lenovo> docker pull hello-world
Using default tag: latest
error during connect: This error may indicate that the docker daemon is not running.: Post "http://%2F%2F.%2Fpipe%2Fdocker_engine/v1.24/images/create?fromImage=hello-world&tag=latest": open //
./pipe/docker_engine: The system cannot find the file specified.
PS C:\Users\Lenovo> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:c18f8a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Users\Lenovo>
```





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:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 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 Kubernetes dashboard. The cluster 'mycluster-free' is in a 'Normal' state and expires in 5 days. The 'Worker nodes' section is selected, displaying a table with one node.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
0000003e	Normal	default	Milan 01	10.144.214.253	169.51.204.217	1.23.12_1548

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IBM

Redirecting...

mycluster-free - IBM Cloud

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cloud.ibm.com/kubernetes/clusters/cd4ik8gf0ph8mjkbcv50/nodes

IBM Cloud

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Normal

Expires in 5 days

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DevOps

New

Pool: Filter...

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Add

<input type="checkbox"/>	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
<input checked="" type="checkbox"/>	0000003e	Normal	default	Milan 01	10.144.214.253	169.51.204.217	1.23.12_1548
<div>ID</div> <div>kube-cd4ik8gf0ph8mjkbcv50-myclusterfr-default-0000003e</div> <div>Status</div> <div>--</div> <div>Flavor</div> <div>Free - 2 vCPUs 4GB RAM</div> <div>Private VLAN</div> <div>2218181</div> <div>Public VLAN</div> <div>2218179</div>							

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