

ASSIGNMENT – 4

STUDENT NAME	PADHMASHREE
REGISTER NUMBER	311419104062

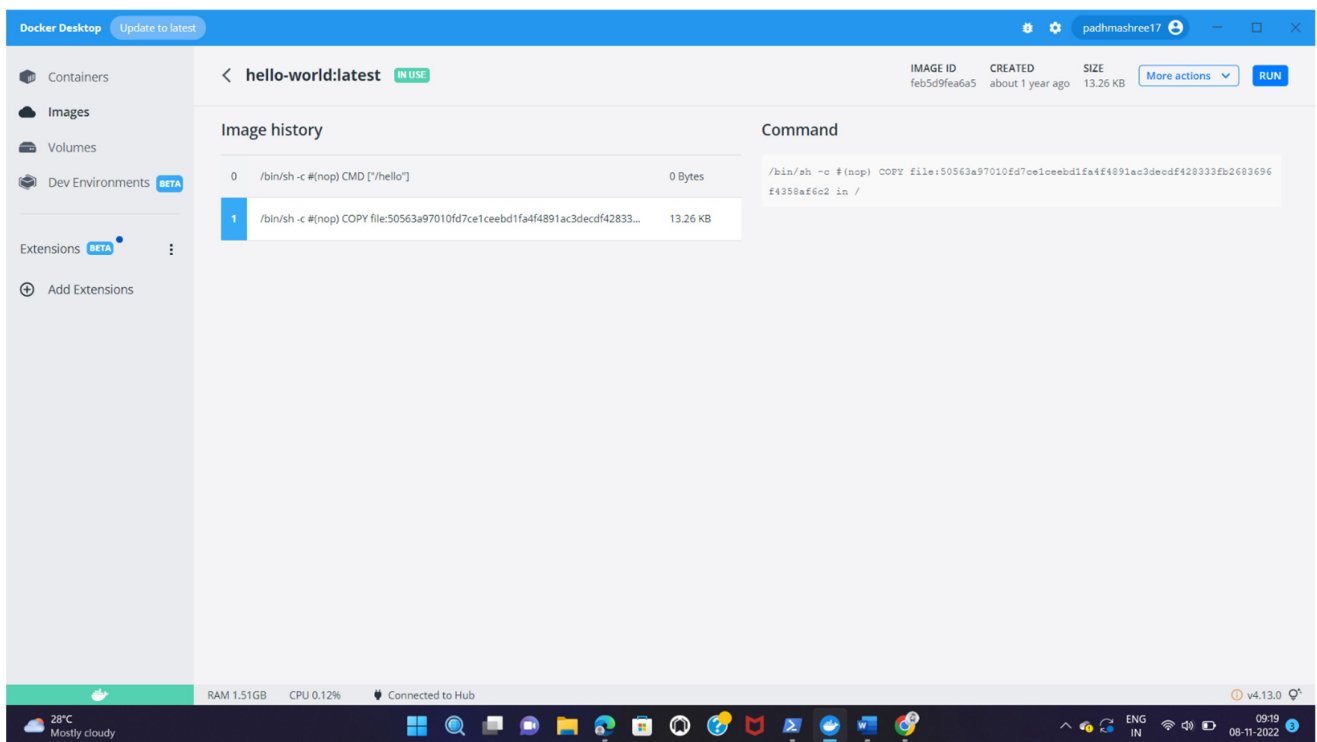
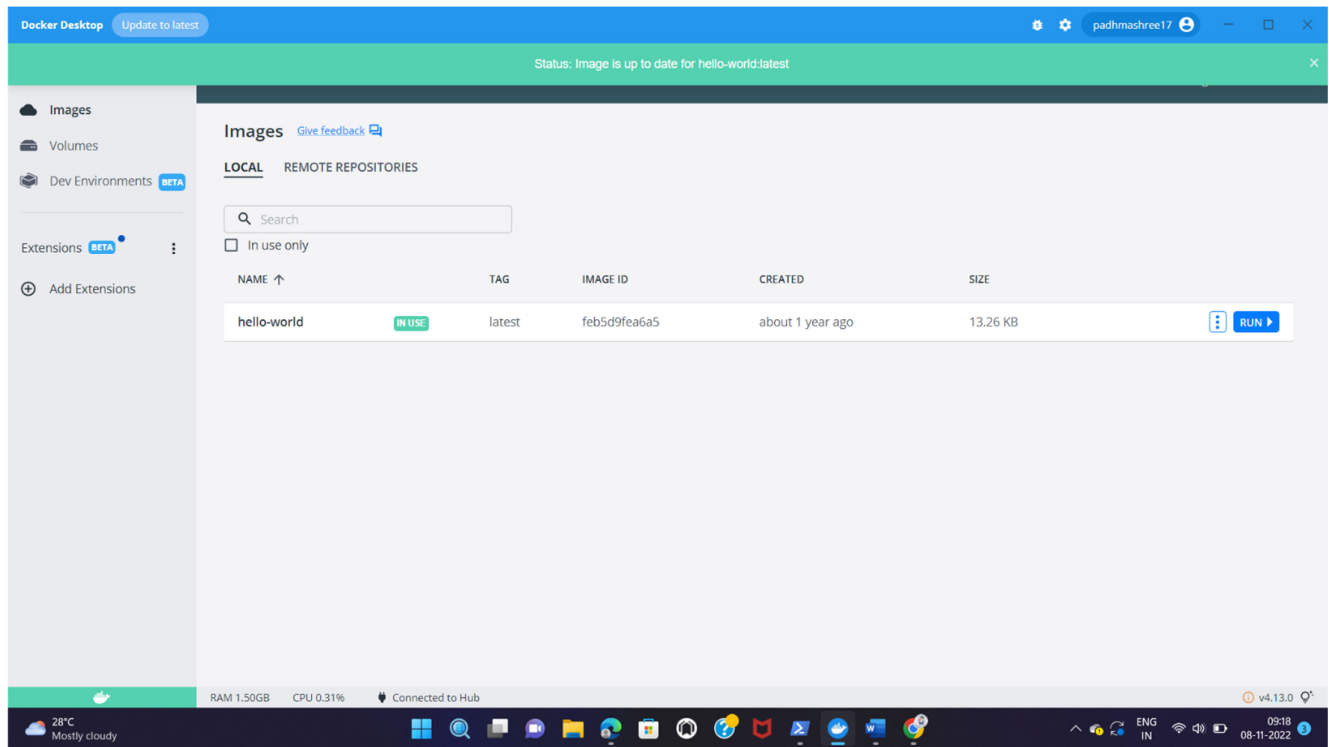
QUESTION 1:

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

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\padhu> 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\padhu>
```



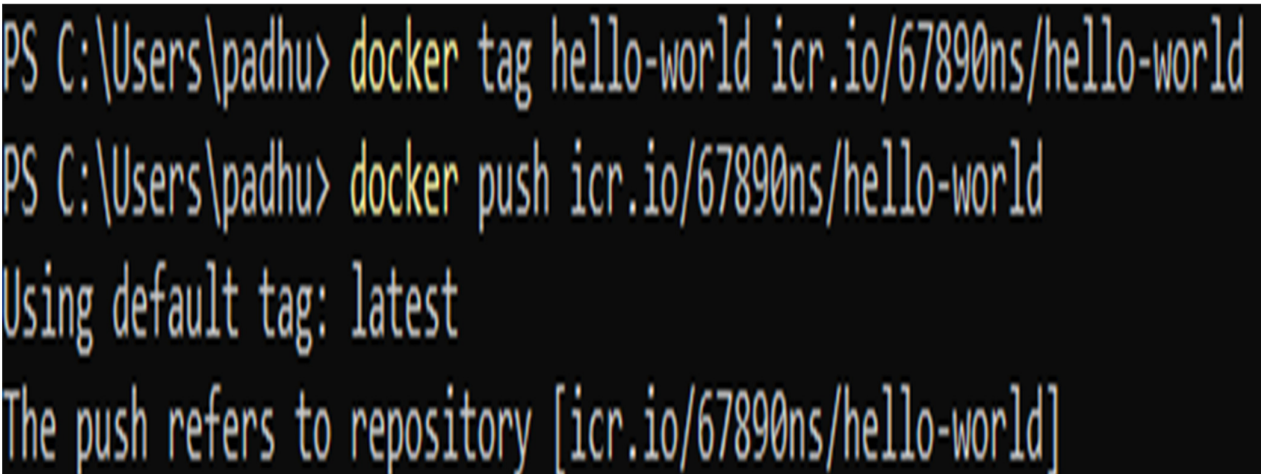
QUESTION 2:

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"]
```

QUESTION 3:

Create a IBM container register and deploy hello world app or job portal app.



```
PS C:\Users\padhu> docker tag hello-world icr.io/67890ns/hello-world  
PS C:\Users\padhu> docker push icr.io/67890ns/hello-world  
Using default tag: latest  
The push refers to repository [icr.io/67890ns/hello-world]
```

```

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:f54a58bc1aac5e1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
PS C:\WINDOWS\system32> ibmcloud cr image-list
Listing images...

```

QUESTION 4:

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

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' section shows a table with one node:

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
0000008c	Provision pending	default	Milan 01			--> 1.24.7_1543

The dashboard also includes a sidebar with 'Overview', 'Worker nodes', 'Worker pools', and 'DevOps' (marked as 'New'). The bottom of the screen shows a Windows taskbar with the date 08-11-2022 and time 09:56.

