## Assignment-IV

Name	DHEVA M
Team ID	PNT2022TMID18844
Roll No	MECR20CS502
Project Name	Customer Care Registry

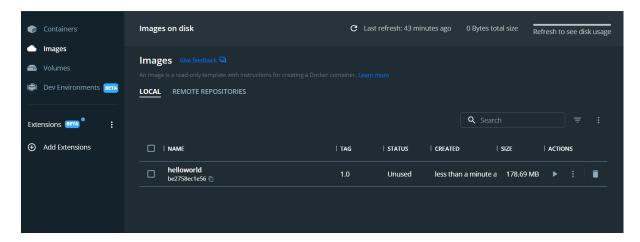
1. Pull an Image from docker hub and run it in docker playground.

2. Create a docker file for the hello world application and deploy it in Docker desktop application.

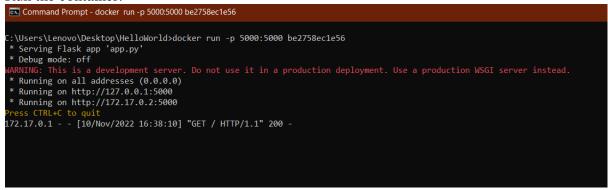
Building the image from the file: docker build -t helloworld:0.1.

```
| C: Users\tenovo\Desktop\Helloworld>Docker images | RPOSITONY TAG | JMGGE ID CREATED SIZE | SIZE |
```

# Docker desktop app:



### Run the container:



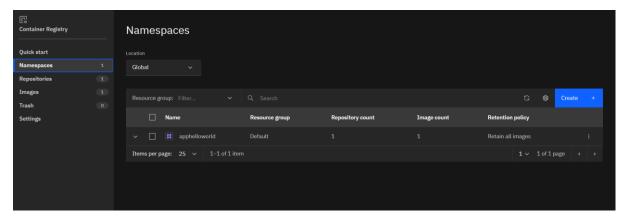
### Output:



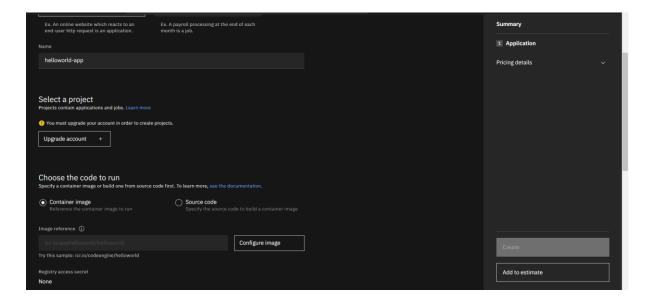
Hello World! from Flask.

3. Create a IBM container registry and deploy helloworld app.

```
DN.
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\Lenovo\.bluemix\plugins\container-registry. Use 'ibmcloud plugin show container-registry' to show its details.
C:\Users\Lenovo>ibmcloud cr region-set global
The region is set to 'global', the registry is 'icr.io'.
 :\Users\Lenovo>ibmcloud cr namespace-add apphelloworld
Adding namespace 'apphelloworld' in resource group 'Default' for account Aswin Venkat's Account in registry icr.io...
 Successfully added namespace 'apphelloworld'
C:\Users\Lenovo>ibmcloud cr login
Logging 'docker' in to 'icr.io'...
Logged in to 'icr.io'.
C:\Users\Lenovo>docker tag helloworld:1.0 icr.io/apphelloworld/helloworld:1.0
C:\Users\Lenovo>docker push icr.io/apphelloworld/helloworld:1.0
The push refers to repository [icr.io/apphelloworld/helloworld]
6710d00f007c: Pushed
0be4a798de9f: Pushed
7504a231c5f8: Pushed
a406de449b24: Pushed
680c5f8d2408: Pushed
ed37f306c964: Pushed
31e0f81c5bec: Pushed
b3aede2981e3: Pushed
6666686122fd: Pushed
994393dc58e7: Pushed
1.0: digest: sha256:d521cb0ae002ab12a99e28e7c3873cbc2032a1a4e15a7d9cab72cfbd60b3250e size: 2412
C:\Users\Lenovo>
C:\Users\Lenovo>ibmcloud cr image-list
Listing images...
Repository Tag Digest icr.io/apphelloworld/helloworld 1.0 d521cb0ae002
                                                           Namespace
                                                                             Created
                                                                                           Size
                                                                                                    Security status
                                                                                           68 MB
                                                           apphelloworld
                                                                            1 hour ago
```

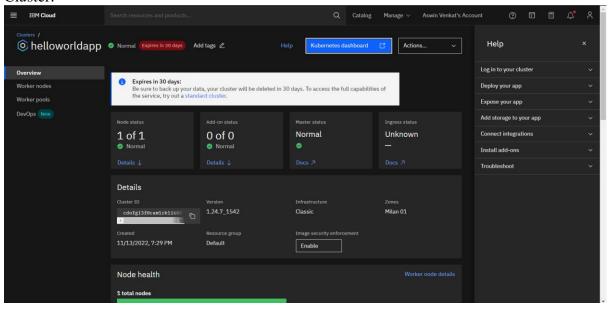


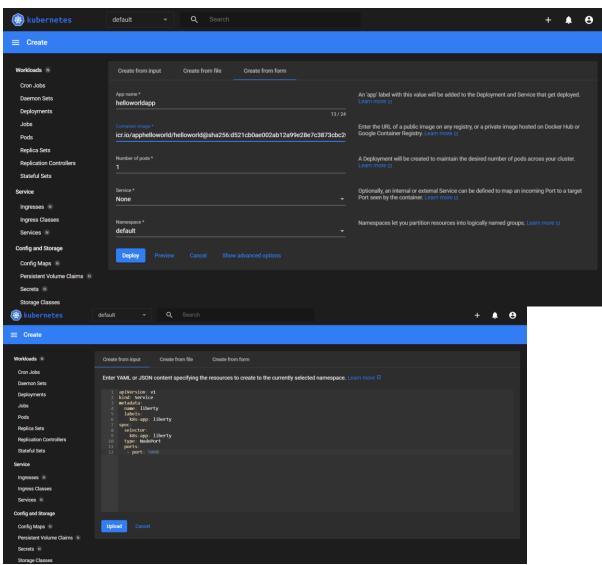
# Jump right in Run a container image Deploy an application or run a job with a container image of your choice. Use this sample or paste your own image reference icr.io/apphelloworld/helloworld Start creating →

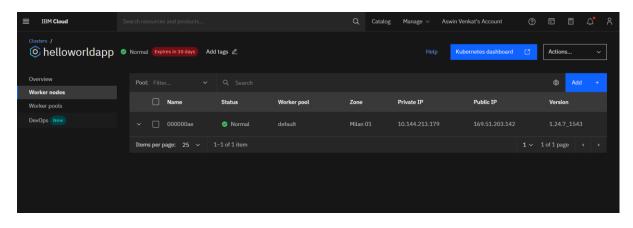


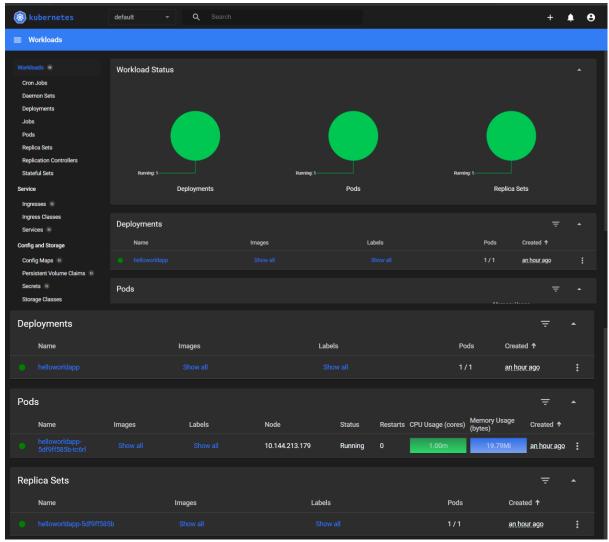
4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image and also expose the same app to run in nodeport.

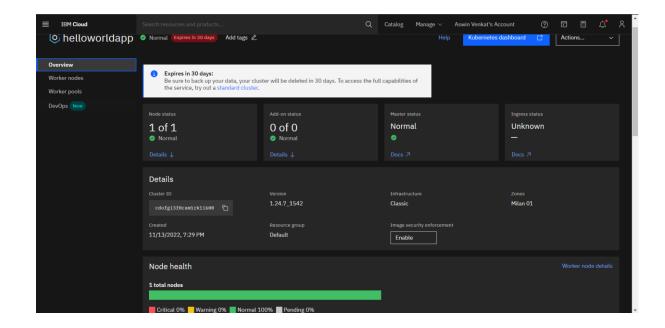
Cluster:











← → **C ③** 169.51.203.142:31857

Hello World! from Flask.