Assignment-IV

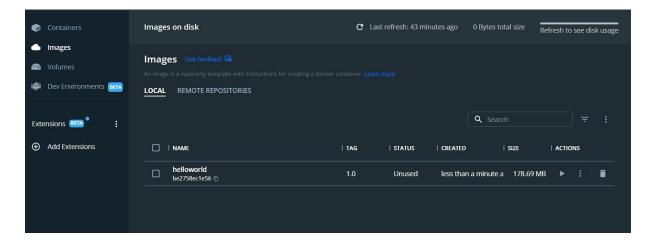
Name	SUDEEP
Team ID	PNT2022TMID18844
Roll No	MECR19CS051
Project Name	Customer Care Registry

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

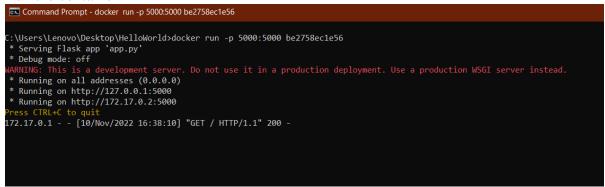
2. Create a docker file for the hello world application and deploy it in Docker desktop application.

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

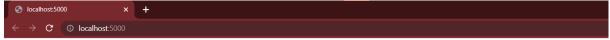
Docker desktop app:



Run the container:



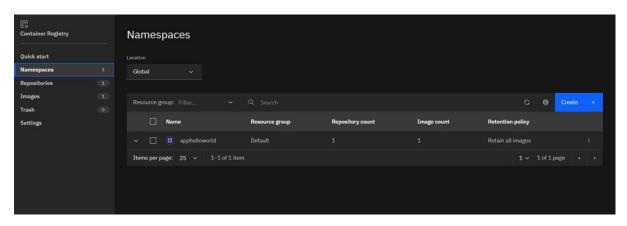
Output:

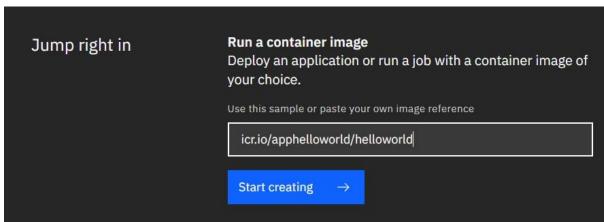


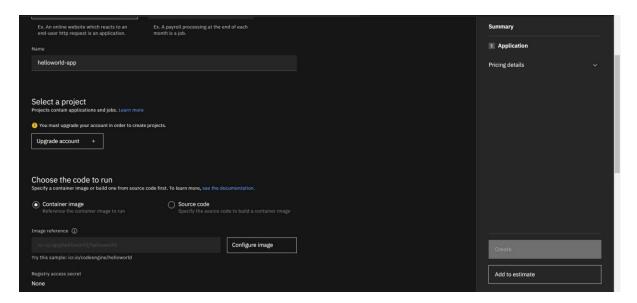
Hello World! from Flask.

3. Create a IBM container registry and deploy hello world app.

```
UN.
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 sho w its details.
C:\Users\Lenovo>ibmcloud cr region-set global
The region is set to 'global', the registry is 'icr.io'.
C:\Users\Lenovo>ibmcloud cr namespace-add apphelloworld
No resource group is targeted. Therefore, the default resource group for the account ('Default') is targeted
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:d521cb0ae002ab12a99e28e7c3873cbc2032a1a4e15a7d9cab72<u>cfbd60b3250e size: 2412</u>
C:\Users\Lenovo>
C:\Users\Lenovo>ibmcloud cr image-list
Listing images...
Repository Tag Digest Namespace Created Size icr.io/apphelloworld/helloworld 1.0 d521cb0ae002 apphelloworld 1 hour ago 68 MB
                                                                                                                 Security status
```

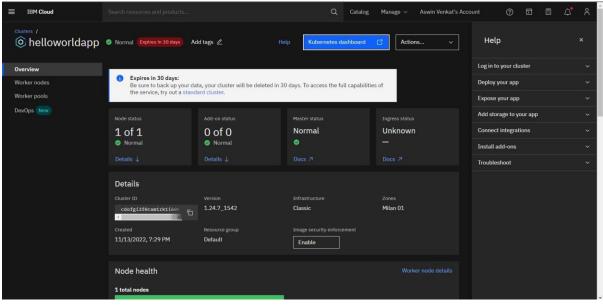


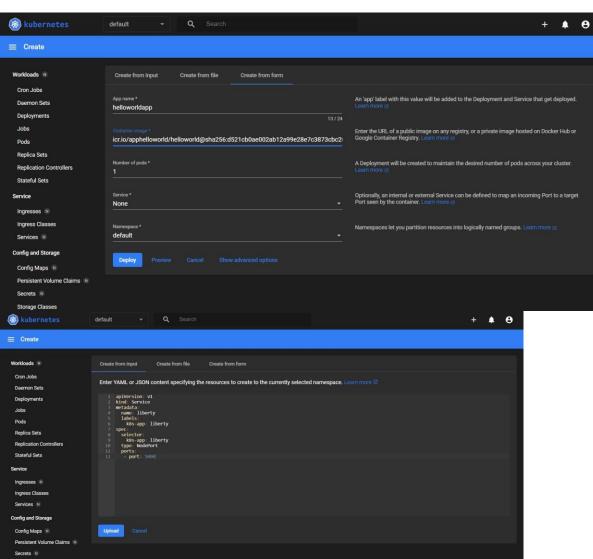


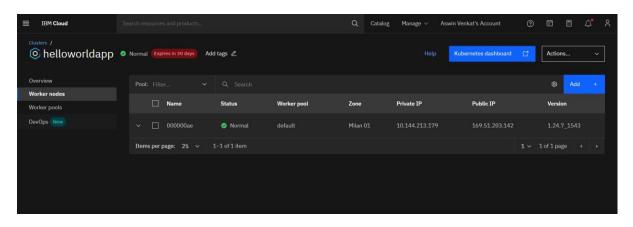


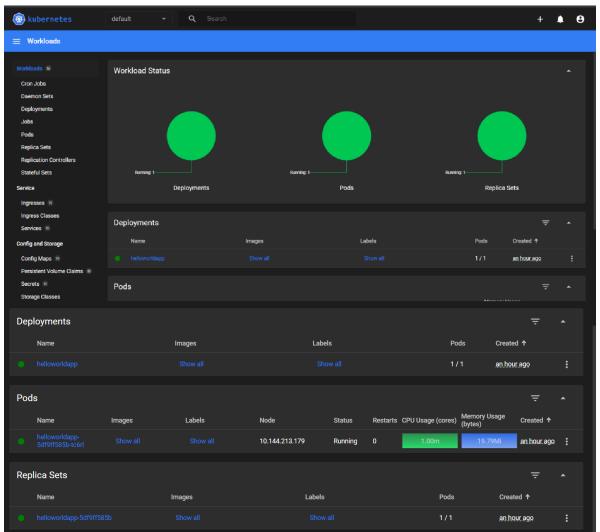
4. Create a Kubernetes cluster in IBM cloud and deploy hello world image and also exposethe same app to run in node port.

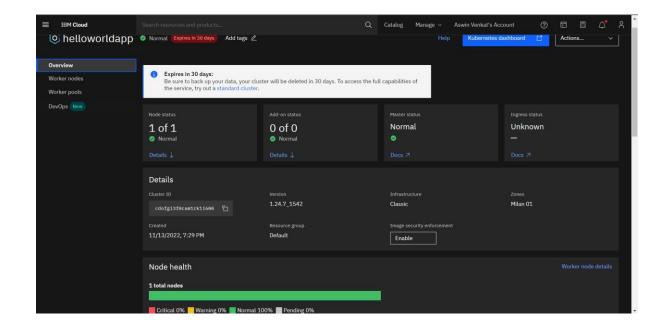
Cluster:











← → **C ③** 169.51.203.142:31857

Hello World! from Flask.