

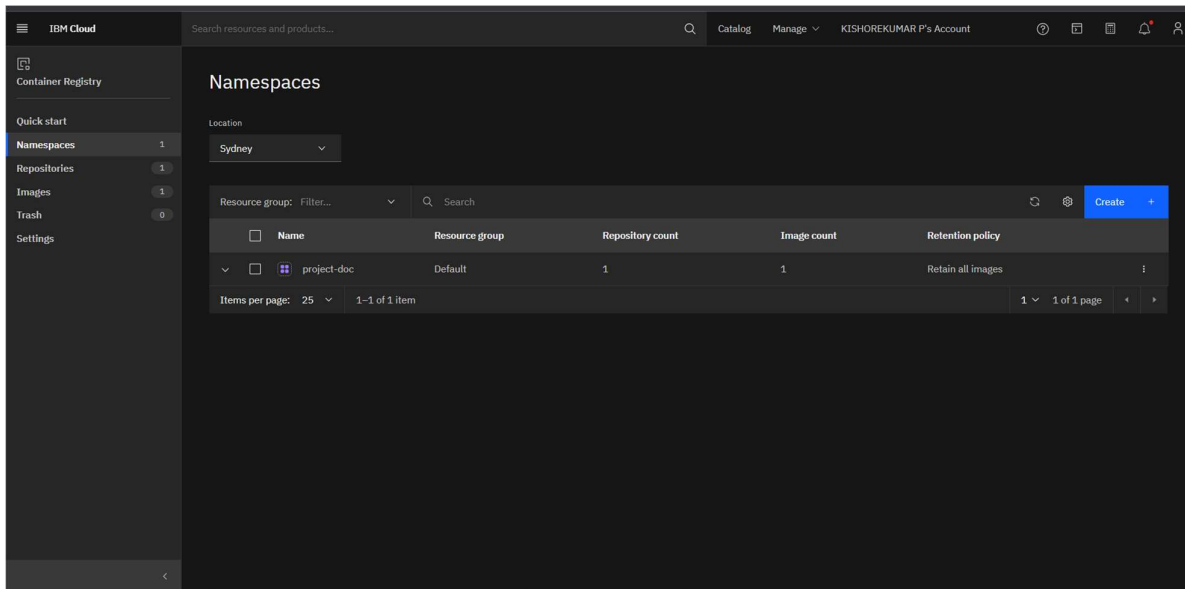
## ASSIGNMENT 4

Date	10.11.2022
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Marks	2 marks

### **QUESTIONS:**

1. Pull an Image from docker hub and run it in docker playground.
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.
3. Create a IBM container registry and deploy helloworld app or jobportalapp.
4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

## SCREENSHOTS:



```
C:\Windows\System32\cmd.exe

C:\user\assignment>ibmcloud cr login
Logging 'docker' in to 'au.icr.io'...
Logged in to 'au.icr.io'.

C:\user\assignment>docker tag project-doc au.icr.io/project-doc/repo:test1
Error response from daemon: No such image: project-doc:latest

C:\user\assignment>docker build -t assignment .
[+] Building 3.5s (11/11) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> => transferring dockerfile: 32B                                                0.0s
=> [internal] load .dockerignore                                                    0.0s
=> => transferring context: 2B                                                    0.0s
=> [internal] load metadata for docker.io/library/python:3.6                     3.3s
=> [1/5] FROM docker.io/library/python:3.6@sha256:f8052a7f88c25f8d22354d547d892591867aa8026a7fa 0.0s
=> [internal] load build context                                                  0.0s
=> => transferring context: 160B                                                  0.0s
=> CACHED [2/5] WORKDIR /app                                                       0.0s
=> CACHED [3/5] RUN /app                                                           0.0s
=> CACHED [4/5] COPY requirements.txt /app                                         0.0s
=> CACHED [5/5] RUN python3 -m pip install -r requirements.txt                   0.0s
=> exporting to image                                                            0.1s
=> => exporting layers                                                            0.0s
=> writing image sha256:40b3daf266e6cb41b58d928842a0774f89dcf629a4b5d5c750a899905fdb22d3 0.0s
=> => naming to docker.io/library/assignment                                    0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

C:\user\assignment>docker tag assignment au.icr.io/project-doc/repo:test1

C:\user\assignment>docker push au.icr.io/project-doc/repo:test1
The push refers to repository [au.icr.io/project-doc/repo]
5f4b41b01feb: Pushed
kbc15955db7: Pushed
36741ec18bc: Pushed
a08bcf297434: Pushed
aad4c888c19f6: Pushed
8ba9f698e8ba: Pushed
3e607d9ef9f9: Pushed
1e18e7efcf22: Pushed
c3a0d593ed24: Pushed
26a504e63be4: Pushed
8bf42db0de72: Pushed
31892cc14eb: Pushed
11936051f93b: Pushed
test1: digest: sha256:f3c00dfc76620e6a2cdc06dcff3e17521a4a79414bdfd2c3747933a35b2366f size: 3050

C:\user\assignment>
```

```
C:\Windows\System32\cmd.exe - docker run -p 8080:8080 assignment
C:\user\assignment>docker run -p 8080:8080 assignment
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 780-711-189
```

