

Assignment 4

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Project Name	Skill/Job Recommender Application

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

```
# is HIGHLY! discouraged. Any consequences of doing so are #
# completely the user's responsibilities. #
# #
# The PWD team. #
#####
[node1] (local) root@192.168.0.8 ~
$ ^[[200~docker pull uifd/ui-for-docker~
bash: $'\E[200~docker': command not found
[node1] (local) root@192.168.0.8 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.8 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
df5d64d82dd01149203464cb9d02fa02a4c24e2088b9b401ee8c59c7d317a478
[node1] (local) root@192.168.0.8 ~
```

2) Create a docker file for the jobportal application and deploy it in Docker desktop application

```
1 FROM python:3.8-bluster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6 RUN pip install -r requirements.py
7 COPY hello.txt ./app/
8 RUN cp .env .env
9 EXPOSE 5000
10 RUN chmod +x entrypoint.sh
11
12 CMD ["sh", "entrypoint.sh"]
```

Containers

Images

Volumes

Dev Environments BETA

Extensions BETA

Add Extensions

Images on disk

9 images Total size: 1.15 GB IN USE UNUSED Clean up...

Images [Give Feedback](#)

LOCAL

REMOTE REPOSITORIES

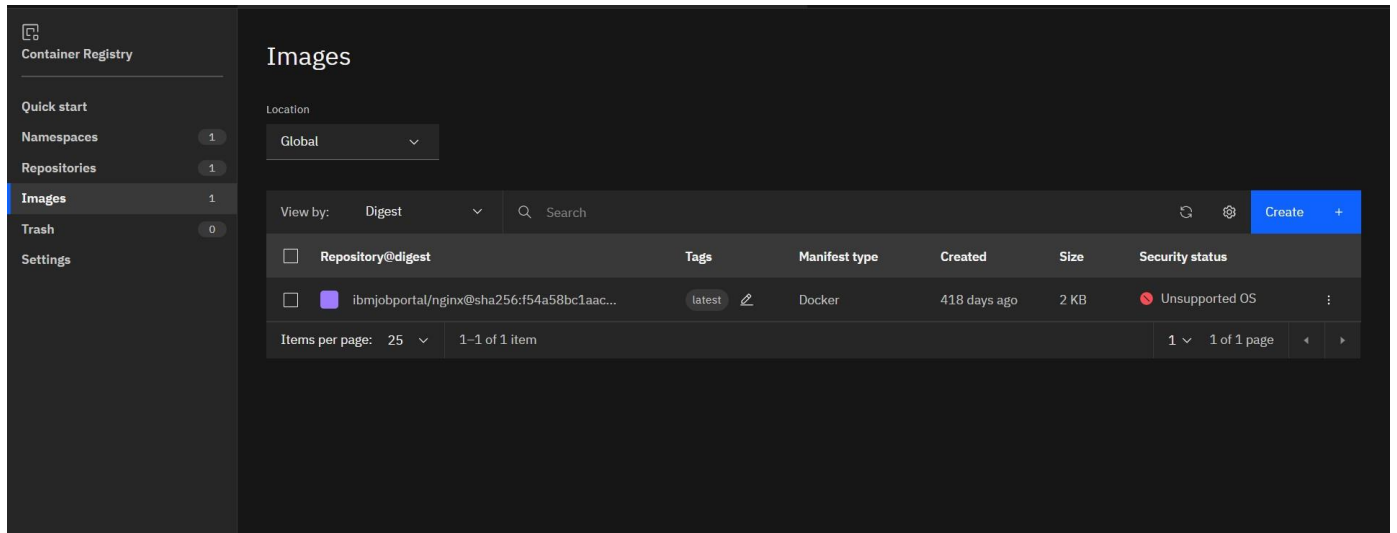
☐ In use only

NAME ↑	TAG	IMAGE ID	CREATED	SIZE
hello-world	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
icr.io/bmjportal/nginx	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
mongo	latest	0bcbeb494bed	about 1 year ago	684.19 MB
mongo-express	latest	e3505d6fafd0	about 1 year ago	135.61 MB
newsapp	v0.2	00f20a4ca70d	about 1 year ago	186.02 MB
nginx IN USE	alpine	19dd4d73108a	3 days ago	23.55 MB
nginx	1.21-alpine	1318bf5f63b4	about 1 year ago	22.85 MB
redis	6.2-alpine	f6f2296798e9	about 1 year ago	32.31 MB
ubuntu	latest	df5de72bdb3b	4 months ago	77.83 MB

RAM 1.96GB CPU 0.23% Connected to Hub

v4.11.0

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.

5)

