

## ASSIGNMENT-4

### Docker and Kubernetes

Team Id	PNT2022TMID50292
Project Name	Smart Fashion Recommender Application

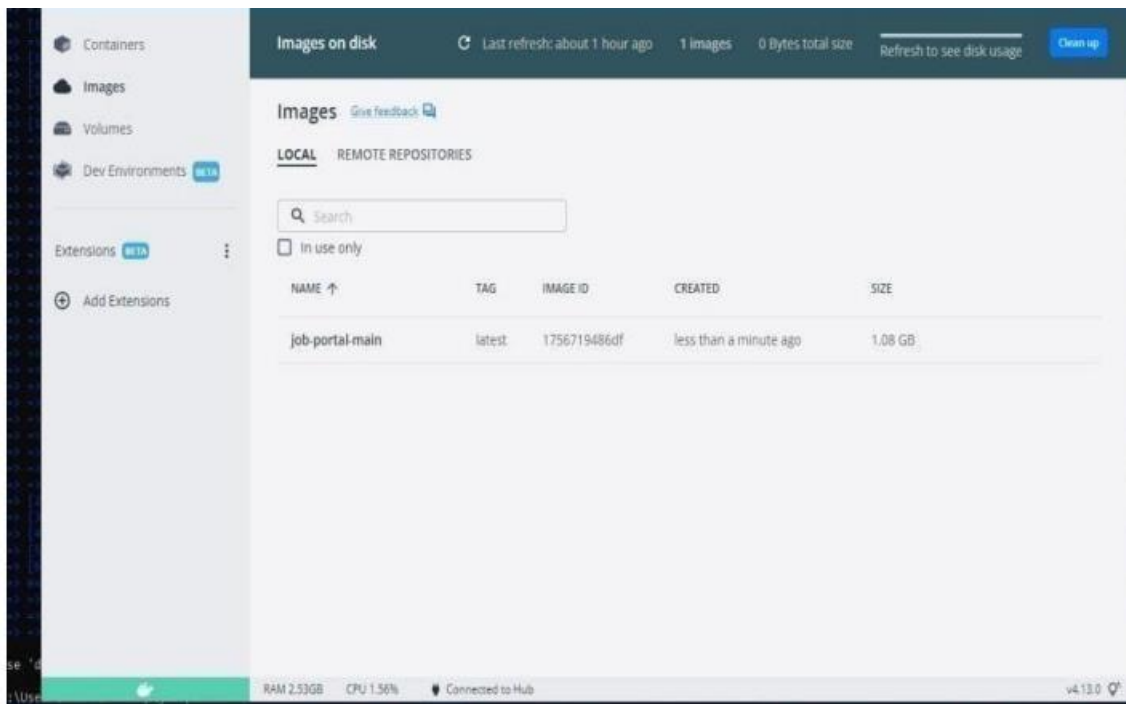
1.Pull an image from docker hub and run it in docker playground:

The screenshot displays the Docker UI for the `uifd/ui-for-docker` repository. The repository is marked as deprecated, with a note stating: "This repo is deprecated. Development continues at: portainer/portainer". A "Docker Pull Command" box shows the command: `docker pull uifd/ui-for-docker`.

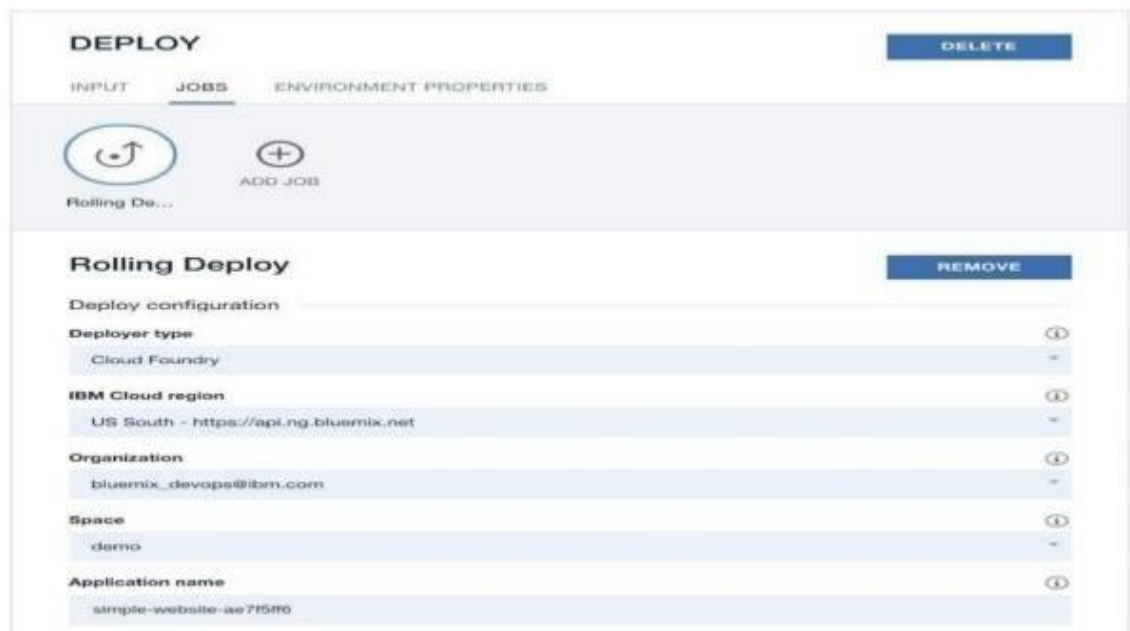
Below the UI, a Docker Playground session is shown. The session ID is `cd9an2u3_cd9av060qau0008hbjs0`. The IP address is `192.168.0.13`. The SSH command is `ssh ip172-18-0-4-cd9an2u3tccg00fg6k0@direct.labs.play-with-docker.com`. The terminal output shows the following commands and results:

```
$ This is a sandbox environment. Using personal credentials $
$ is HIGHLY discouraged. Any consequences of doing so are $
$ completely the user's responsibility. $
$ The FWD team. $
##### $
root@192.168.0.13 ~# docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
441194d000c8: Pull complete
Digest: sha256:fe171ff5a69549269b24073a5ab1244d4c0b83tcbadF244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
root@192.168.0.13 ~# docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
e390d4f13101ae793bdcea0b1d489f6fe549cb5f24dadb9f7e1931923fe0d
root@192.168.0.13 ~#
```





3. Create a IBM container registry and deploy helloworld app or jobportal app:



```

1  {
2    "ServiceId": "com.ibm.cloudoe.orion.client.deploy",
3    "Params": {
4      "Target": {
5        "Url": "https://api.ng.bluemix.net",
6        "Org": "bluemix_devops@ibm.com",
7        "Space": "demo"
8      },
9      "Name": "simple-website-ae7f5ff6",
10     "Instrumentation": {}
11   },
12   "Path": "manifest.yml",
13   "Type": "Cloud Foundry"
14 }

```

Hello, IBM Cloud World!

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

