

## ASSIGNMENT-4

### Docker and Kubernetes

ASSIGNMENT DATE	23 OCTOBER 2022
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MAXIMUM MARKS	2 MARKS

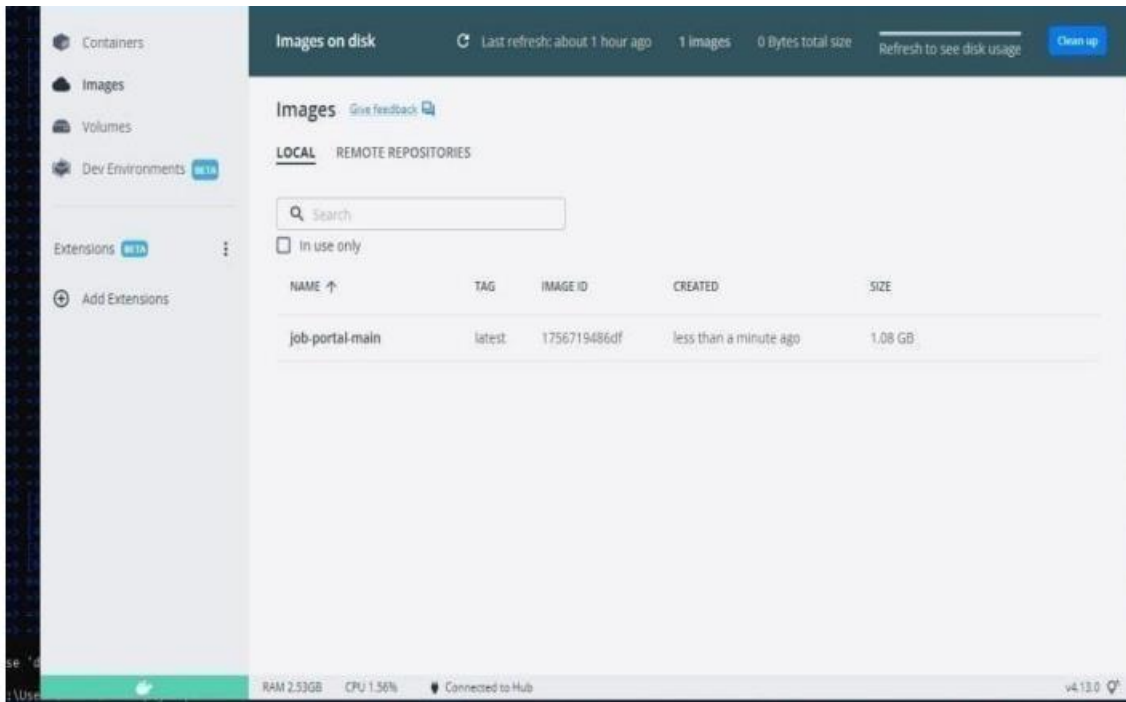
#### 1. Pull an image from docker hub and run it in docker playground.

The screenshot displays the Docker Hub page for the `uifd/ui-for-docker` repository, which is marked as deprecated. Below this, a terminal window from Docker Playground is shown. The terminal output details the process of pulling the `latest` tag of the `uifd/ui-for-docker` image and running it with specific flags to start a web interface.

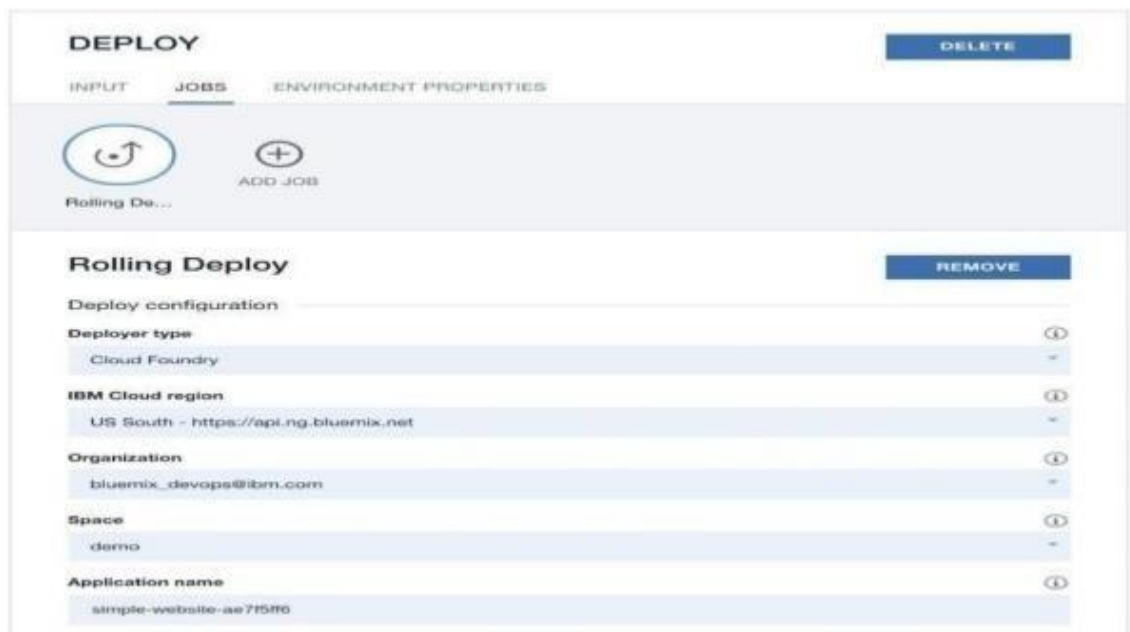
```
cd9an2u3_cd9av060qau0008hbjs0
IP: 192.168.0.13
Memory: 512MB
CPU: 100%
SSH: ssh ip172-18-0-4-cd9an2u3tccg00f6k0@direct.labs.play-w
DELETE EDITOR

$ This is a sandbox environment. Using personal credentials is
$ is HIGHLY discouraged. Any consequences of doing so are
$ completely the user's responsibilities.
$
$ 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:fe171ff5a69549269b24073a5ab1244dd4c0b834cbad244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/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
c590d41f3101ae73bdcea0b1d4d91f6fc347cb5f24dadb9ff7e1931923fe0d
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.

