

ASSIGNMENT-4

Docker and Kubernetes

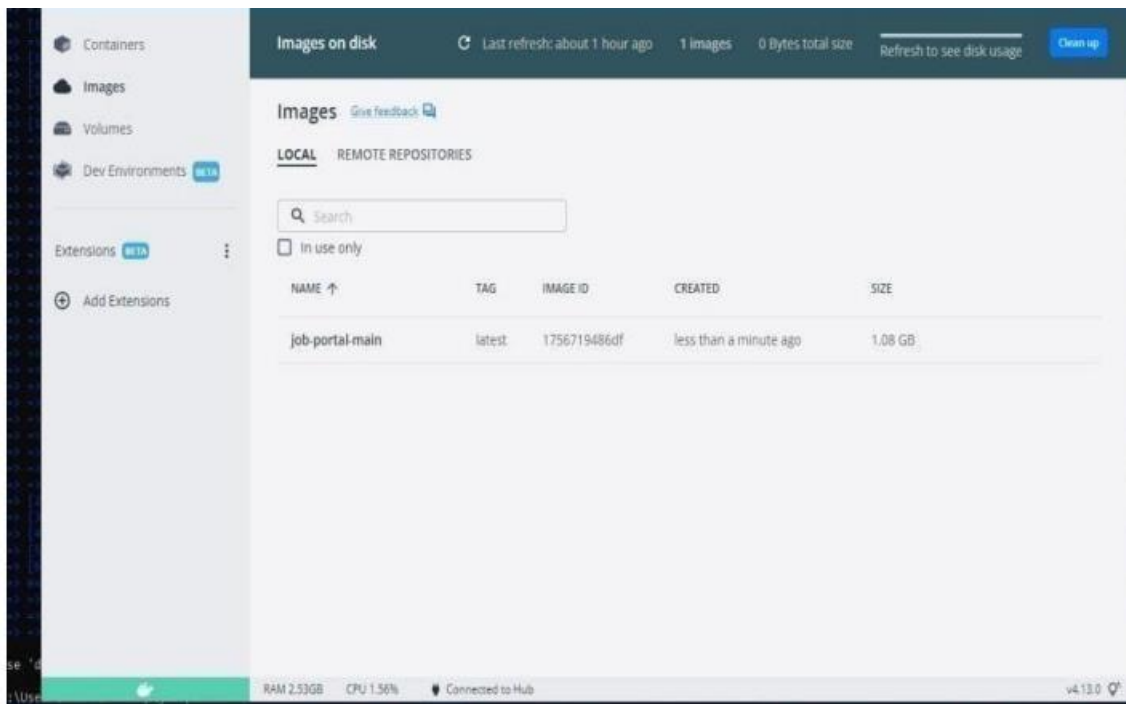
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Maximum Marks	2 Marks

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

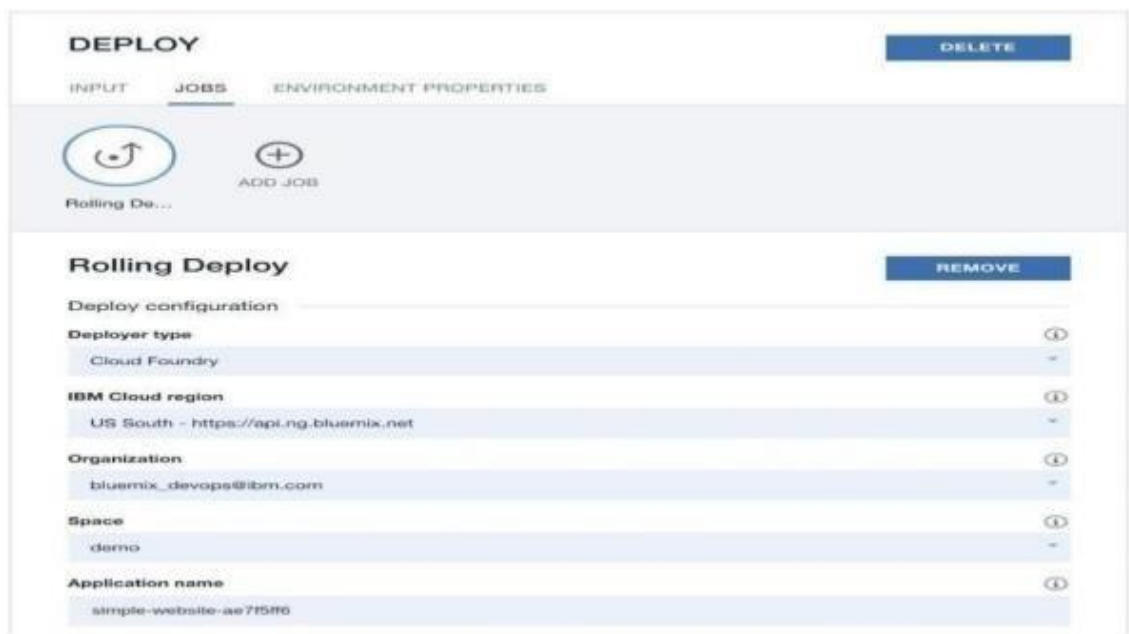
The screenshot displays the Docker Hub page for the repository `uifd/ui-for-docker`. The repository is marked as deprecated, with a note stating "This repo is deprecated. Development continues at portainer/portainer". The Docker Pull Command is shown as `docker pull uifd/ui-for-docker`.

Below the Docker Hub page, the Docker Playground interface is visible. The instance name is `cd9an2u3_cd9av060qau0008hbjs0`. The IP address is `192.168.0.13`. The terminal output shows the following commands and their results:

```
# This is a sandbox environment. Using personal credentials #
# is HIGHLY discouraged. Any consequences of doing so are #
# completely the user's responsibilities. #
# #
# The FWD team. #
#####
[roob@] (local) root@192.168.0.13 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
041194d000c8: Pull complete
Digest: sha256:69549269b24073a5ab1244d4c0b834cbdf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
uifd/ui-for-docker:latest
[roob@] (local) 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
c390dd163101ee795bdcce0eblddd98f6fe549cb5f24daeb9ff7c1931923fc0d
[roob@] (local) 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:

