

Assignment -4

Docker and Kubernetes

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| Assignment Date | 25 October 2022 |
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| Team id | PNT2022TMID46448 |
| Maximum Marks | 2 Marks |

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

The screenshot is divided into two main horizontal sections. The top section shows the Docker Hub page for the repository `uifd/ui-for-docker`. The page includes the repository name, a description stating it is deprecated and to use Portainer instead, and a 'Pulls 10M+' badge. A 'Docker Pull Command' box displays the command `docker pull uifd/ui-for-docker`. The bottom section shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:42:30, a 'CLOSE SESSION' button, and an 'Instances' list showing one instance named 'node1' with IP 192.168.0.13. The main area shows the instance details for 'cd9an2u3_cd9av060qau0008hbjs0', including its IP (192.168.0.13), memory, CPU, and an SSH command. Below this, a terminal window shows the execution of the `docker pull` command, which successfully pulls the latest image from Docker Hub. The terminal output includes the image ID, digest, and status.

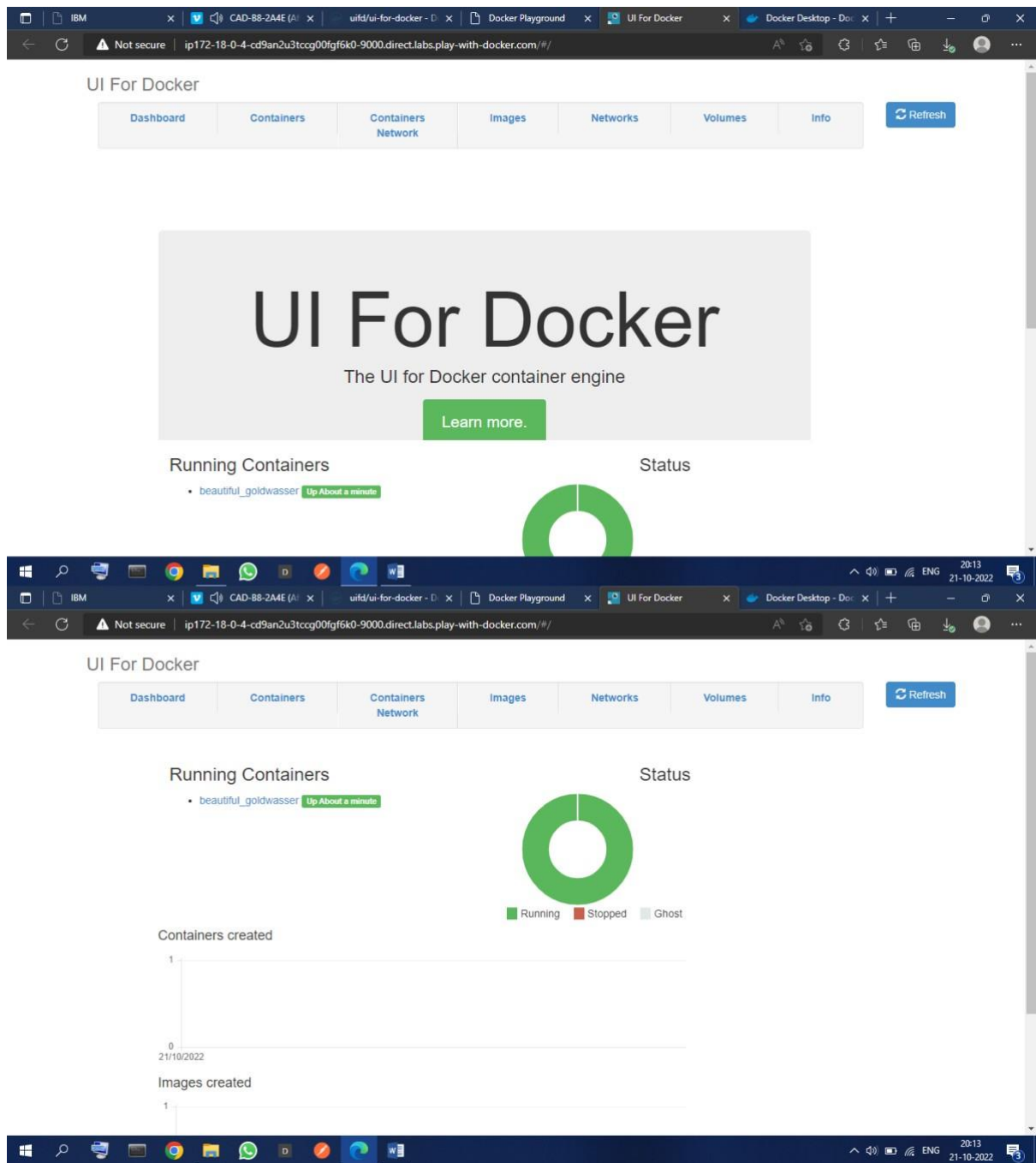
Docker Hub Page:

- Repository: `uifd/ui-for-docker`
- By `uifd` • Updated 6 years ago
- A web interface for the Docker Remote API, formerly known as DockerUI. Deprecated, use Portainer for new features.
- Tags: Other, Image
- Pulls: 10M+
- Overview, Tags
- UI For Docker: This repo is deprecated. Development continues at: `portainer/portainer`
- Docker Pull Command: `docker pull uifd/ui-for-docker`

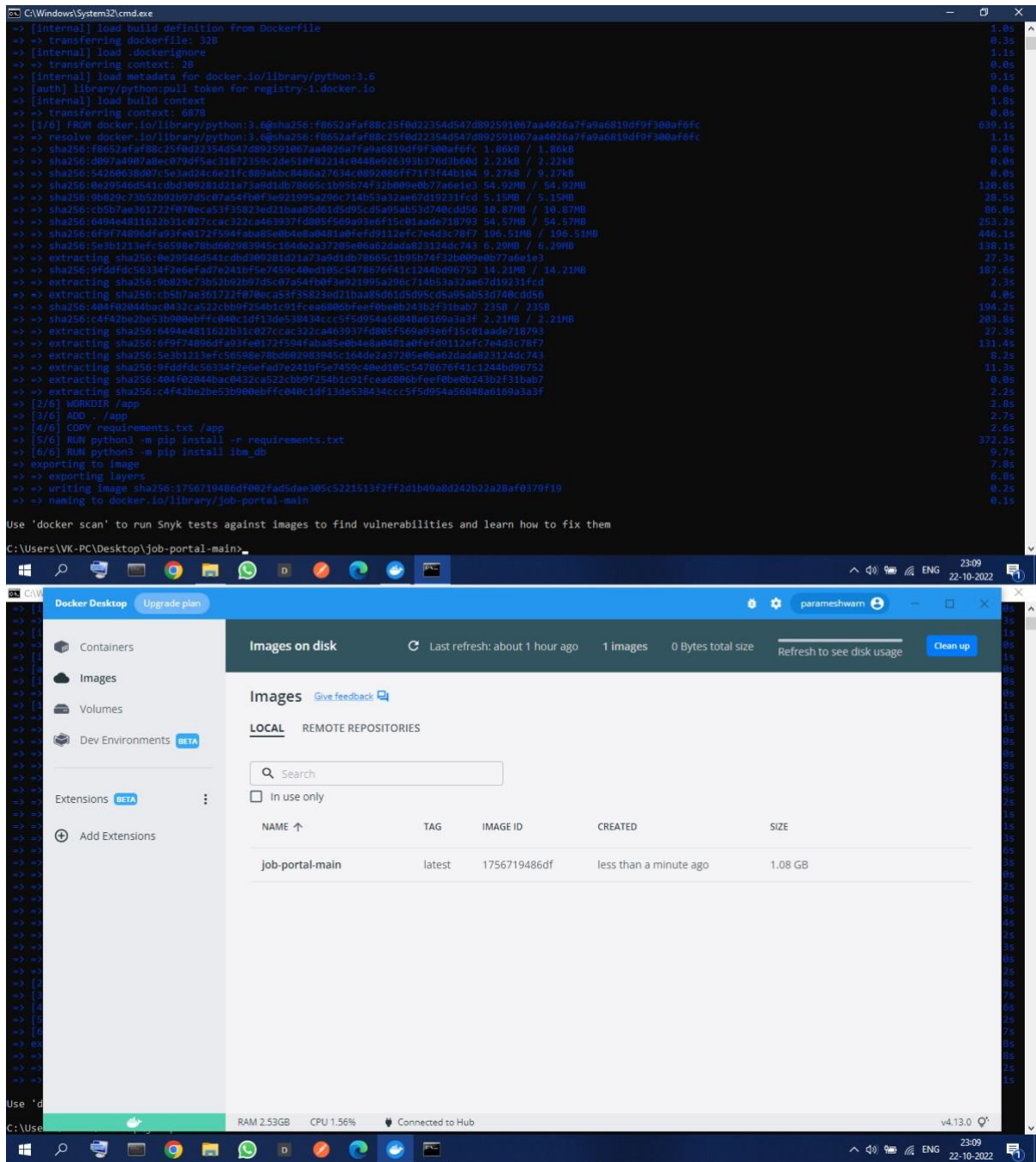
Docker Playground Interface:

- Instances: 03:42:30, CLOSE SESSION, ADD NEW INSTANCE
- Instance: 192.168.0.13 node1
- Instance Details: cd9an2u3_cd9av060qau0008hbjs0, IP: 192.168.0.13, OPEN PORT, DELETE, EDITOR
- SSH Command: `ssh ip172-18-0-4-cd9an2u3tccg00fg6k0@direct.labs.play-w`
- Terminal Output:

```
# 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.
#####
[node1] (local) root@192.168.0.13 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244d4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (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
c590dd1f63101ac795bdc0a0eb1dd498f6fe549cb5f24dab9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$
```



2. Create a docker file for the job portal application and deploy it in Docker desktop application



3. Create a IBM container registry and deploy helloworld app