

## Assignment – 4

### Kubernetes/Docker

Assignment Date	22 October 2022
Student Name	N. Ramya
Student Roll Number	2019115076
Maximum Marks	2 Marks

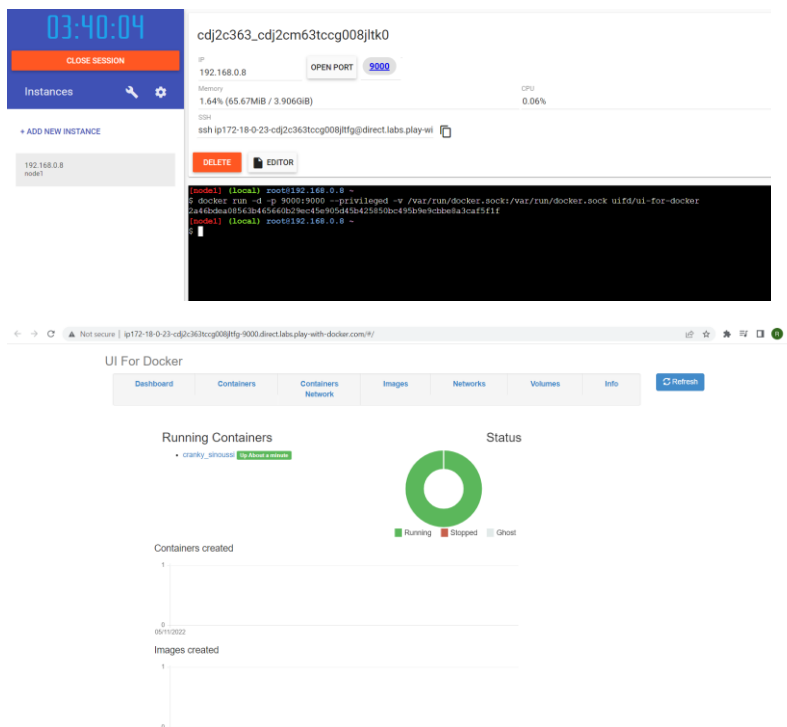
Q1. Pull an Image from docker hub and run it in docker playground.

The screenshot displays two web interfaces. The top interface is the Docker Hub page for the repository `uifd/ui-for-docker`. It shows the repository details, including a note that the repo is deprecated and development continues at `portainer/portainer`. A Docker Pull Command box shows the command `docker pull uifd/ui-for-docker`.

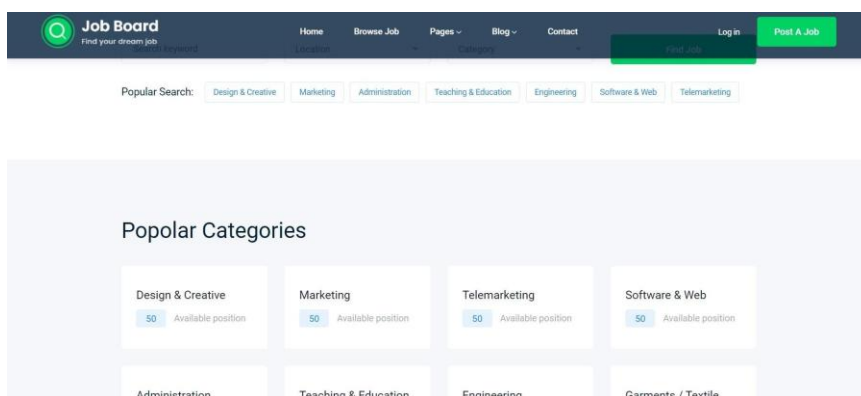
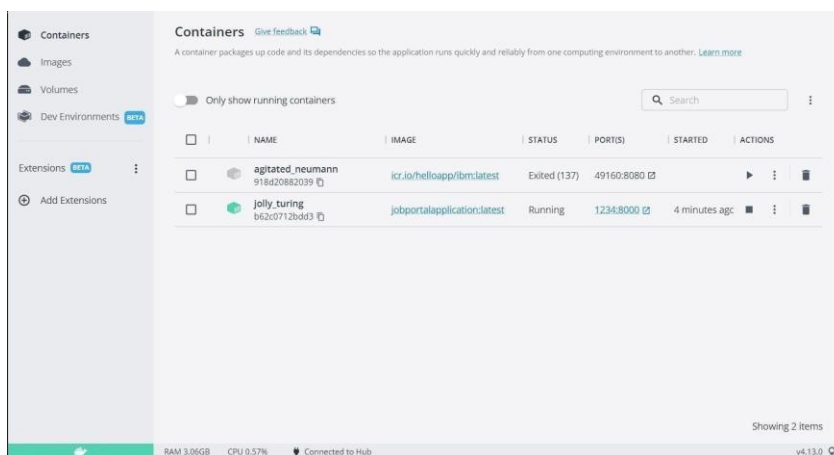
The bottom interface is the Docker Playground console. It shows a session with IP `192.168.0.8` and memory usage of `1.44% (57.59MiB / 3.906GiB)`. The terminal output shows the following commands and results:

```
# The FWD team.
#####
[local] (local) root@192.168.0.8 ~
$ docker version --help
Usage: docker version [OPTIONS]
Show the Docker version information

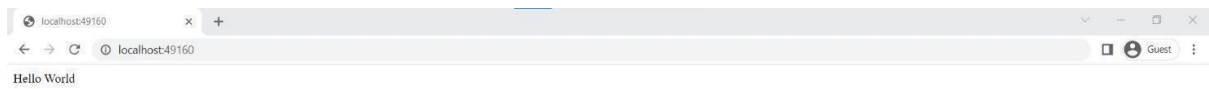
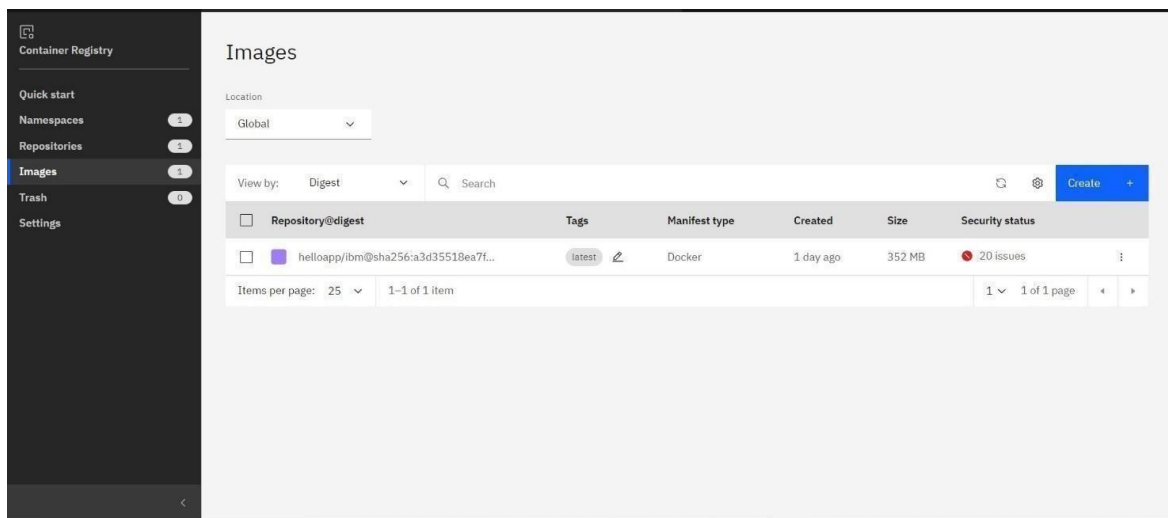
Options:
  -f, --format string      Format the output using the given Go template
  --kubeconfig string      Kubernetes config file
[local] (local) root@192.168.0.8 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080e8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[local] (local) root@192.168.0.8 ~
$
```



Q2. Create a docker file for the jobportal application and deploy it in Docker desktop application.



Q3. Create an IBM container registry and deploy helloworld app or jobportalapp.



Q4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

