

Assignment -4

Docker and Kubernetes

Assignment Date	23 November 2022
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Maximum Marks	2 Marks

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

The screenshot shows a web browser with multiple tabs. The active tab is Docker Hub, displaying the repository page for `uifd/ui-for-docker`. The page indicates that the repository is deprecated and suggests using Portainer instead. It shows a Docker Pull Command: `docker pull uifd/ui-for-docker`.

Below the Docker Hub page, the Docker Playground interface is visible. It shows a terminal window with the following commands and output:

```
# This is a sandbox environment. Using personal credentials
# is HIGHLY discouraged. Any consequences of doing so are
# completely the user's responsibilities.
#
# The PWD 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:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadF244870572150b1cb749
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
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dab9ff7c1931923fc0d
(node1) (local) root@192.168.0.13 ~
$
```

The image displays two screenshots of the 'UI For Docker' web application interface, which is accessed via a browser at the URL `ip172-18-0-4-cd9an2u3tccg00fgf6k0-9000.direct.labs.play-with-docker.com/#/`.

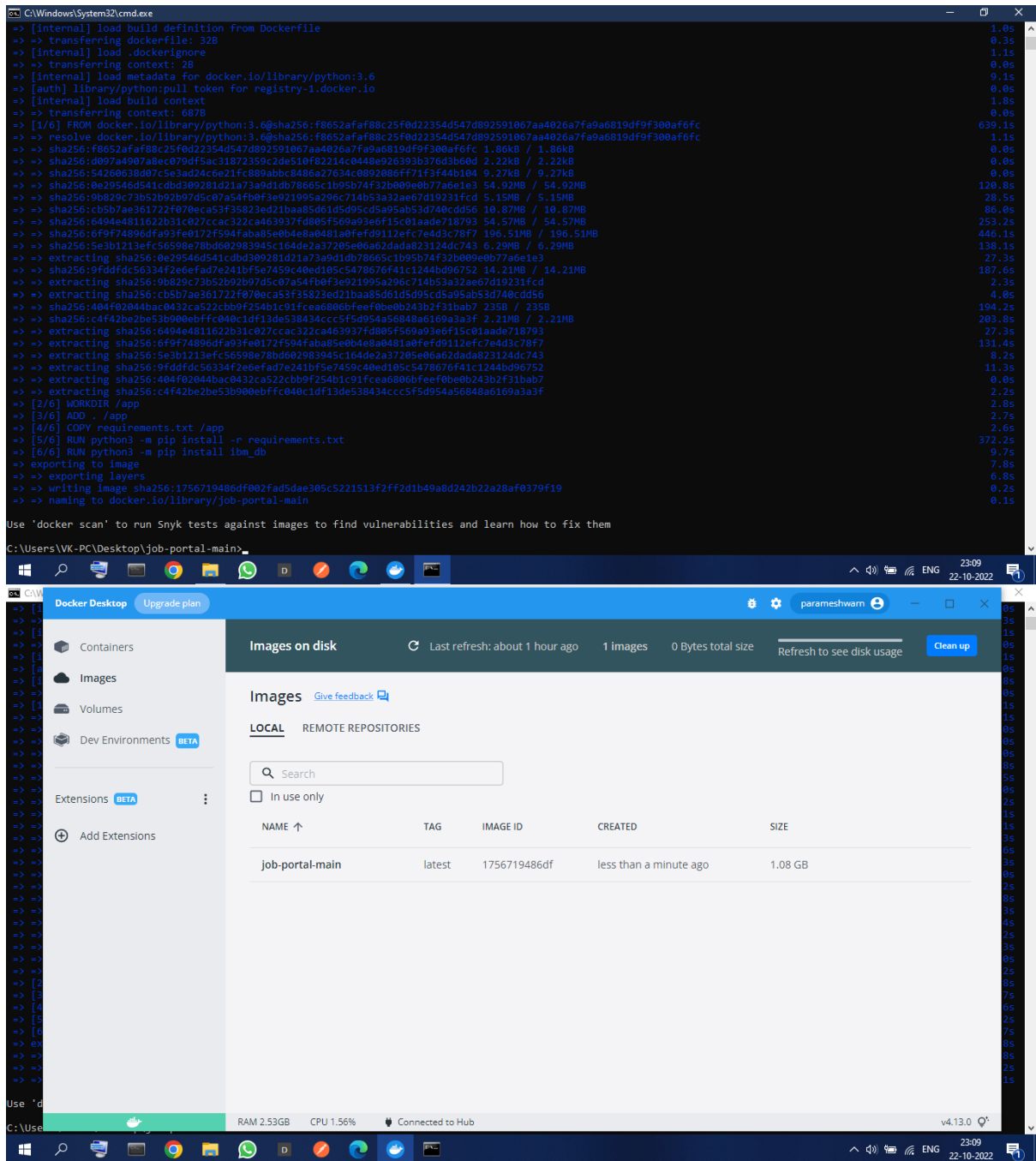
Top Screenshot:

- Navigation Bar:** Includes links for Dashboard, Containers, Containers Network, Images, Networks, Volumes, and Info, along with a Refresh button.
- Header:** Features the title 'UI For Docker' and the subtitle 'The UI for Docker container engine', with a 'Learn more.' button.
- Running Containers:** Lists one container named 'beautiful_goldwasser' with a status of 'Up About a minute'.
- Status:** A donut chart showing the status of containers. A legend below indicates 'Running' (green), 'Stopped' (red), and 'Ghost' (grey).

Bottom Screenshot:

- Containers created:** A line graph showing the number of containers created over time, with a peak of 1 on 21/10/2022.
- Images created:** A line graph showing the number of images created over time, with a peak of 1 on 21/10/2022.

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