

Assignment -4

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Maximum Marks	2 Marks

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

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 02:44:09, a 'CLOSE SESSION' button, and a list of instances. The main area displays details for a container named 'cdqghpv9_cdqhb3f91rrg00acd340'. It shows the IP address 192.168.0.28, an 'OPEN PORT' button set to 9000, and resource usage: 5.50% (219.8MiB / 3.906GiB) memory and 0.26% CPU. Below this, there's an SSH command: 'ssh ip172-18-0-58-cdqghpv91rrg00acd0qg@direct.labs.play'. A 'DELETE' button and an 'EDITOR' icon are also present. The bottom section shows a terminal output for pulling the 'latest' image from 'library/docker' and attempting to run it. The output shows the image being pulled successfully, but the container fails to start due to a 'driver failed programming external connectivity on endpoint busy_bardeen'.

The screenshot shows the 'UI For Docker' interface. The top navigation bar includes 'Dashboard', 'Containers', 'Containers Network', 'Images' (selected), 'Networks', 'Volumes', and 'Info'. There's a 'Refresh' button on the right. Below the navigation bar, the 'Images' section is displayed. It has a 'Filter' input field and a table of images. The table has columns: 'Select', 'Id', 'Repository', 'VirtualSize', and 'Created'. Two images are listed: 'sha256:adc767c402...' from 'docker:latest' (143.8 MB, created 2022-10-26) and 'sha256:965940f98f...' from 'uifd/ui-for-docker:latest' (7.7 MB, created 2016-09-08). At the bottom, it shows 'Docker API Version: 1.41 UI Version: v0.11.0' and a 'UI For Docker' link.

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

The screenshot shows the Docker Desktop interface. On the left, there's a sidebar with a timer '03:41:57', a 'CLOSE SESSION' button, and a list of instances. One instance is visible: '192.168.0.28 node1'. The main panel shows details for the instance 'cdbuqoe0_cdbv24u3tccg009se10g'. It includes fields for IP (192.168.0.28), Memory, CPU, and SSH (ssh ip172-18-1-162-cdbuqoe0qau000ddsegg@direct.labs.pl content_copy). There are 'DELETE' and 'insert' buttons. Below this is a terminal window showing the following commands and output:

```
$ docker pull docker/getting-started
Using default tag: latest
latest: Pulling from docker/getting-started
df9b9388f04a: Pull complete
5867c8a5fcbd: Pull complete
4b639e65cb3b: Pull complete
061ed9e2b976: Pull complete
bc19f3e8eeb1: Pull complete
4071be97c256: Pull complete
79b586f1a54b: Pull complete
0c9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
docker.io/docker/getting-started:latest
[root@1] (local) root@192.168.0.28 ~
$ docker run -dp 80:80 docker/getting-started
ab2bf1a20f94991390dca336a2e087e7280f31c25ef2f0e3f9c9812a6fee0706
[root@1] (local) root@192.168.0.28 ~
$
```

3.Create a IBM container registry and deploy helloworld app or jobportalapp.

The screenshot shows the IBM Cloud Container Registry console. The left sidebar has a 'Container Registry' section with 'Namespaces' selected. The main panel shows a list of namespaces under the 'Sydney' location. A 'Create namespace' notification is visible in the top right. The table below lists the namespaces:

Name	Resource group	Repository count	Image count	Retention policy
helloworld11	Default	0	0	
test112001	Default	0	0	

At the bottom, there's a 'Show all' button and a status bar showing '28°C' and '17-11-2022'.

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

