

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 an 'Instances' section. The main area displays details for an instance 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-cdqghpv91rrg00acd0gg@direct.labs.play'. There are 'DELETE' and 'EDITOR' buttons. The terminal window shows the process of pulling the 'latest' image from 'library/docker', listing various layers, and then attempting to run the container. The terminal output indicates an error: 'docker: error during connect: Post "http://docker:2375/v1.24/containers/create": dial tcp: lookup docker on 8.8.8.8:53: no such host. See "docker run --help".'

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. The 'Images' section has a 'Filter' input field and a table of images. The table has columns: 'Select', 'Id', 'Repository', 'VirtualSize', and 'Created'. Two images are listed: one with ID 'sha256:adc767c402...' from repository 'docker:latest' (143.8 MB, created 2022-10-26), and another with ID 'sha256:965940f98f...' from repository '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 IBM Cloud Container Registry console. On the left, there's a sidebar with a timer '03:41:57', a 'CLOSE SESSION' button, and links for 'Instances', 'bui', and 'setl'. Below this is a '+ ADD NEW INSTANCE' button and a list of instances with IP '192.168.0.28' and name 'node1'. The main panel shows details for instance 'cdbuqoe0_cdbv24u3tccg009se10g', including its IP '192.168.0.28', an 'OPEN PORT' button, and an 'SSH' command: '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 execution of 'docker pull docker/getting-started' and 'docker run -dp 80:80 docker/getting-started' commands, resulting in a successful pull and container start.

```
$ docker pull docker/getting-started
Using default tag: latest
latest: Pulling from docker/getting-started
df9b9388f04a: Pull complete
5867cba5fcbd: Pull complete
4b639e65cb3b: Pull complete
061ed9e2b976: Pull complete
bc19f3e8eeb1: Pull complete
4071be97c256: Pull complete
79b586f1a54b: Pull complete
0c9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aee
Status: Downloaded newer image for docker/getting-started:latest
[rodel] (local) root@192.168.0.28 ~
$ docker run -dp 80:80 docker/getting-started
ab2bf1a20f94991390dca336a2a087e7280f31c25ef2f0e3f9c9812a6fee0706
[rodel] (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 'Container Registry' selected, with sub-links for 'Quick start', 'Namespaces', 'Repositories', 'Images', 'Trash', and 'Settings'. The main panel is titled 'Namespaces' and shows a table of existing namespaces. A 'Create namespace' notification is visible in the top right. The table has columns for 'Name', 'Resource group', 'Repository count', 'Image count', and 'Retention policy'. Two namespaces are listed: 'helloworld11' and 'test112001', both in the 'Default' resource group with 0 repositories and 0 images. The bottom of the screen shows a Windows taskbar with various application icons and system information like '28°C', 'Haze', and '17-11-2022'.

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

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.

