

ASSIGNMENT 4

1.

The screenshot shows the IBM Cloud Play with Docker interface. On the left, there's a sidebar with a clock showing 03:39:18, a 'CLOSE SESSION' button, and an 'Instances' section. The main area displays details for a container named 'cdm8u7e3_cdm8v1e3tccg00elg2hg'. It shows the IP address 192.168.0.28, an 'OPEN PORT' button with the value 9000, and resource usage: Memory 1.73% (69.07MiB / 3.906GiB) and CPU 0.29%. Below this, there's a 'DELETE' button and an 'EDITOR' button. The terminal output shows the following commands and results:

```
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for ui-for-docker:latest
docker.io/ui-for-docker:latest
(node1) (local) root@192.168.0.28 ~
$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
(node1) (local) root@192.168.0.28 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock ui-for-docker
1fd804216156a46f76013a6105560a5b70e5521837eef5653f73ef8000cf3a3
(node1) (local) root@192.168.0.28 ~
$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
1fd804216156  ui-for-docker  "/ui-for-docker"        About a minute ago    Up About a minute    0.0.0.0:9000->9000/tcp    boring_banach
(node1) (local) root@192.168.0.28 ~
$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ui-for-docker  latest   965940f98fa5   6 years ago    8.1MB
(node1) (local) root@192.168.0.28 ~
$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
1fd804216156  ui-for-docker  "/ui-for-docker"        5 minutes ago    Up 5 minutes    0.0.0.0:9000->9000/tcp    boring_banach
(node1) (local) root@192.168.0.28 ~
$ docker stop
```

2.

The screenshot shows the Docker Desktop interface. On the left, there's a sidebar with 'Containers', 'Images', 'Volumes', 'Dev Environments', and 'Extensions'. The main area is titled 'Images on disk' and shows a list of images. The 'LOCAL' tab is selected, and the 'In use only' checkbox is checked. The list of images is as follows:

NAME	TAG	IMAGE ID	CREATED	SIZE
alpine/git	latest	42a1cd80ba24	21 days ago	43.61 MB
hello-world	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
lcr.io/suriya/test/job1	suriya	feb5d9fea6a5	about 1 year ago	13.26 KB

The bottom status bar shows 'RAM 1.50GB', 'CPU 1.18%', and 'Connected to Hub'.

3.

The screenshot shows the IBM Cloud Container Registry interface. The left sidebar has a 'Namespaces' tab selected. The main content area is titled 'Namespaces' and shows a table of existing namespaces. The table has columns for Name, Resource group, Repository count, Image count, and Retention policy. Two namespaces are listed: 'suriya' and 'demotest'. A 'Create' button is visible in the top right corner of the table area.

Name	Resource group	Repository count	Image count	Retention policy
suriya	Default	1	1	Retain all images
demotest	Default	0	0	Retain all images

The screenshot shows the IBM Cloud Container Registry interface with the 'Repositories' tab selected. The main content area is titled 'Repositories' and shows a table of existing repositories. The table has columns for Name, Image count, Namespace, and Last updated. One repository is listed: 'testjob1' under the 'suriya' namespace. A 'Create' button is visible in the top right corner of the table area.

Name	Image count	Namespace	Last updated
testjob1 icr.io/suriya/testjob1	1	suriya	413 days ago

4.

The screenshot shows the IBM Cloud console interface for a Kubernetes cluster named 'mycluster-free'. The browser address bar shows the URL: `cloud.ibm.com/kubernetes/clusters/cdlmqomf0ufesjq9753g/overview`. The page header includes the IBM Cloud logo, a search bar, and navigation links for Catalog, Manage, and the user's account (Suriya S's Account). The cluster status is 'Normal' with a green checkmark and a warning that it 'Expires in 28 days'. A 'Kubernetes dashboard' button is visible in the top right.

Overview

- Worker nodes
- Worker pools
- DevOps **New**

Expires in 28 days:
Be sure to back up your data, your cluster will be deleted in 28 days. To access the full capabilities of the service, try out a standard cluster.

Node status	Add-on status	Master status	Ingress status
1 of 1 Normal	0 of 0 Normal	Normal	Unknown
Details ↓	Details ↓	Docs ↗	Docs ↗

Details

Cluster ID	Version	Infrastructure	Zones
cdlmqomf0ufesjq9753g	1.24.7_1542	Classic	Milan 01
Created 11/9/2022, 2:35 PM	Resource group Default	Image security enforcement Enable	

Node health [Worker node details](#)

1 total nodes

The bottom of the image shows a Windows taskbar with various application icons and a system tray displaying the time as 09:35 on 11-11-2022.