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Question 1:

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

Containers

Images

Volumes

Environments beta

Ins beta

Extensions

Images on disk

Images

Give feedback

An image is a read-only template with instructions for creating a Docker container. [Learn more](#)

LOCAL

REMOTE REPOSITORIES

NAME

hello-world

feb5d9fea6a5

latest

[In Use](#)

about 1 year ago

13.26 KB

Last refresh: Never

Refresh to see disk usage

Search

Showing 1 items

03:58:57

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.8
node1

cdjr6g79_cdjr6kf91rrg00fv72f0

IP
192.168.0.8

OPEN PORT

Memory

CPU

SSH
ssh ip172-18-0-23-cdjr6g791rrg00fv72eg@direct.labs.play-v

DELETE

EDITOR

```
#####
#                               #
#   WARNING!!!!                #
#   # This is a sandbox environment. Using personal credentials   #
#   # is HIGHLY! discouraged. Any consequences of doing so are   #
#   # completely the user's responsibilities.                      #
#   # The FWD team.                                                #
#####
[node1] (local) root@192.168.0.8 ~
$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951abla6f352a06974245fe7
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
[node1] (local) root@192.168.0.8 ~
$
```

Question 2:

Create a docker file for the job portal application and deploy it in Docker Desktop Application

FROM helloworld:latest

WORKDIR ~/Desktop/

ADD . helloworld/

WORKDIR

~/Desktop/htmlfile RUN pip

install -r requirements RUN

chmod +x app.sh

CMD ["/bin/sh", "app.sh"]

Question 3:

Create an IBM container registry and deploy helloworld app or Job portal app.

```
PS C:\Users\HP> docker tag hello-world icr.io/0034ns/helloworld
PS C:\Users\HP> docker push icr.io/0034ns/helloworld
Using default tag: latest
The push refers to repository [icr.io/0034ns/helloworld]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or job portal image and also expose the same app to run in node port.

The screenshot shows the Docker Desktop application window. The left sidebar contains navigation options: Containers, Images, Volumes, Dev Environments (with a BETA badge), Extensions (with a BETA badge), and Add Extensions. The main panel is titled 'Images on disk' and shows a summary: 'Last refresh: 8 minutes ago', '2 Images', '13.26 KB total size', and '13.26 KB / 13.26 KB in use'. Below this, there's a section for 'Images' with a 'Give Feedback' link. The 'LOCAL' tab is selected, showing a table of images. The table has columns for NAME, TAG, IMAGE ID, CREATED, and SIZE. Two images are listed: 'hello-world' and 'icr.io/0034ns/helloworld', both with the 'latest' tag and an image ID of 'feb5d9fea6a5'. Both images are marked as 'IN USE'. At the bottom, there's a 'Connect to Remote Content' section with three checkmarks: 'Store and backup your images remotely', 'Unlock vulnerability scanning for greater security', and 'Collaborate with your team'. A 'Sign in' button is present. The status bar at the bottom shows 'RAM 1.76GB', 'CPU 0.06%', and 'Not connected to Hub'.

| NAME | TAG | IMAGE ID | CREATED | SIZE |
|--------------------------|--------|--------------|------------------|----------|
| hello-world | latest | feb5d9fea6a5 | about 1 year ago | 13.26 KB |
| icr.io/0034ns/helloworld | latest | feb5d9fea6a5 | about 1 year ago | 13.26 KB |

