

Question-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 03:54:58, a 'CLOSE SESSION' button, and a list of instances. The main area displays the instance details for 'cdoh48v9_cdoh65e3tccg00aojv4g' with IP 192.168.0.28. Below this, there's a terminal window showing the following commands and output:

```
#####  
# 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@192.168.0.28 ~  
$ docker pull hello-world  
Using default tag: latest  
latest: Pulling from library/hello-world  
2db29710123e: Pull complete  
Digest: sha256:faa03e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af  
Status: Downloaded newer image for hello-world:latest  
[node1] (local) root@192.168.0.28 ~  
$ docker run hello-world
```

The screenshot shows the Docker Playground interface with the same instance details. The terminal window now displays the output of the 'hello-world' container:

```
Hello from Docker!  
This message shows that your installation appears to be working correctly.  
  
To generate this message, Docker took the following steps:  
1. The Docker client contacted the Docker daemon.  
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.  
   (amd64)  
3. The Docker daemon created a new container from that image which runs the  
   executable that produces the output you are currently reading.  
4. The Docker daemon streamed that output to the Docker client, which sent it  
   to your terminal.  
  
To try something more ambitious, you can run an Ubuntu container with:  
$ docker run -it ubuntu bash  
  
Share images, automate workflows, and more with a free Docker ID:  
https://hub.docker.com/  
  
For more examples and ideas, visit:  
https://docs.docker.com/get-started/  
[node1] (local) root@192.168.0.28 ~  
$
```

Question-2:

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

```
Dockerfile
1 # For more information, please refer to https://aka.ms/vscode-docker-python
2 FROM python:3.8-buster
3
4 WORKDIR /app
5 COPY requirements.txt /app/
6 RUN pip install -r requirements.txt
7 COPY . /app/
8 RUN cp .env.dev.sample .env
9 EXPOSE 8000
10 RUN chmod +X entrypoint.sh
11 CMD ["python", "app.py"]
```

Containers

Images

Volumes

Dev Environments BETA

Extensions BETA

Add Extensions

Containers

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

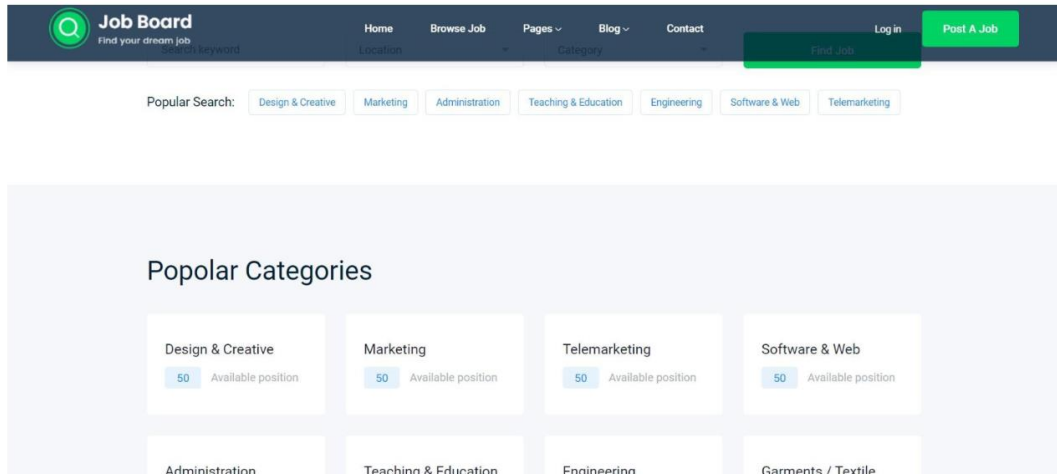
☐ Only show running containers

Search

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	festive_clarke e8fdd2c57bd0	alpine:latest	Created (127)			<div>▶ ⋮ 🗑</div>
<input type="checkbox"/>	pensive_roentgen ba22cf05dae3	docker/desktop-vpnkit-control	Created (127)			<div>▶ ⋮ 🗑</div>

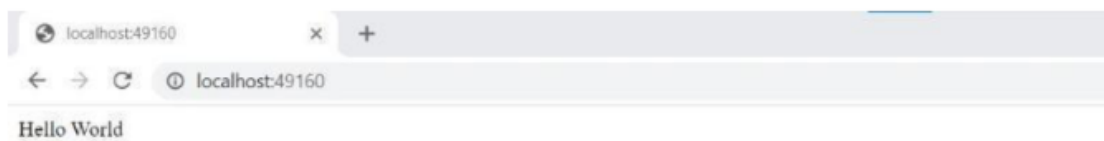
Showing 2 items

Output:



3. Create an IBM container registry and deploy hello world app Or job portal app. IBM.

Output:



4. create a Kubernetes cluster in IBM cloud and deploy the hello world image or job portal image and also expose the same app to run in node part.

