

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

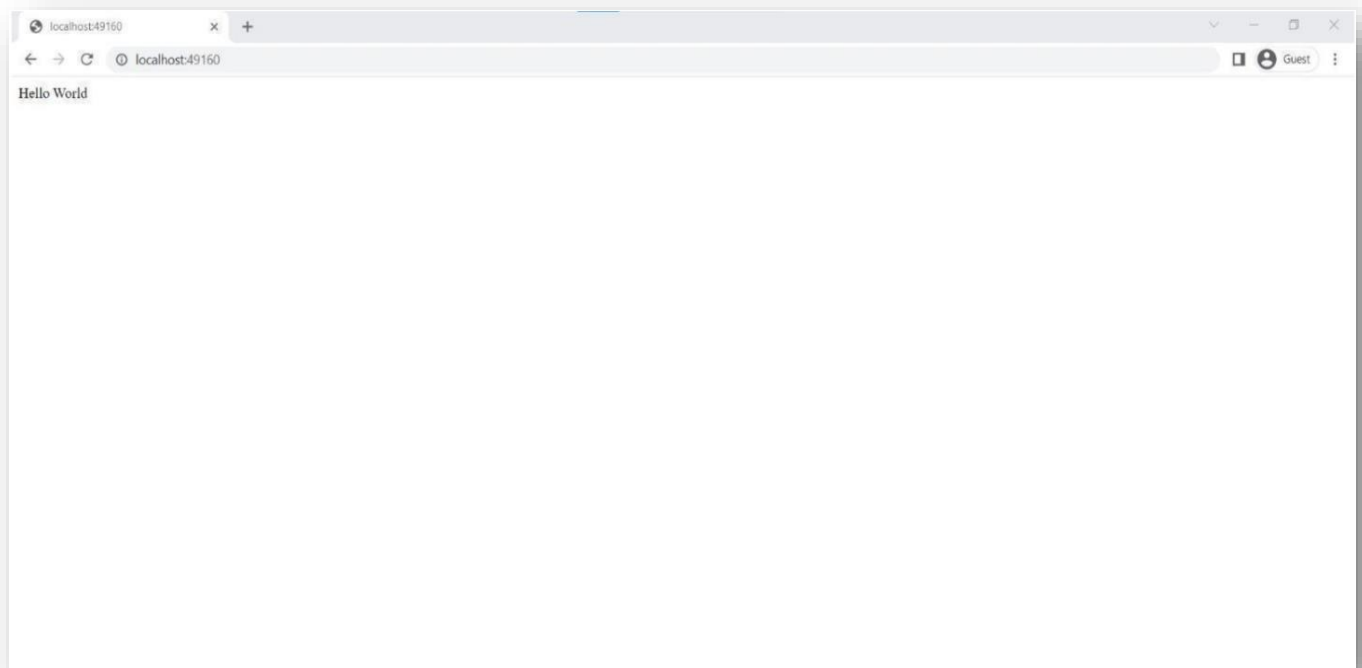
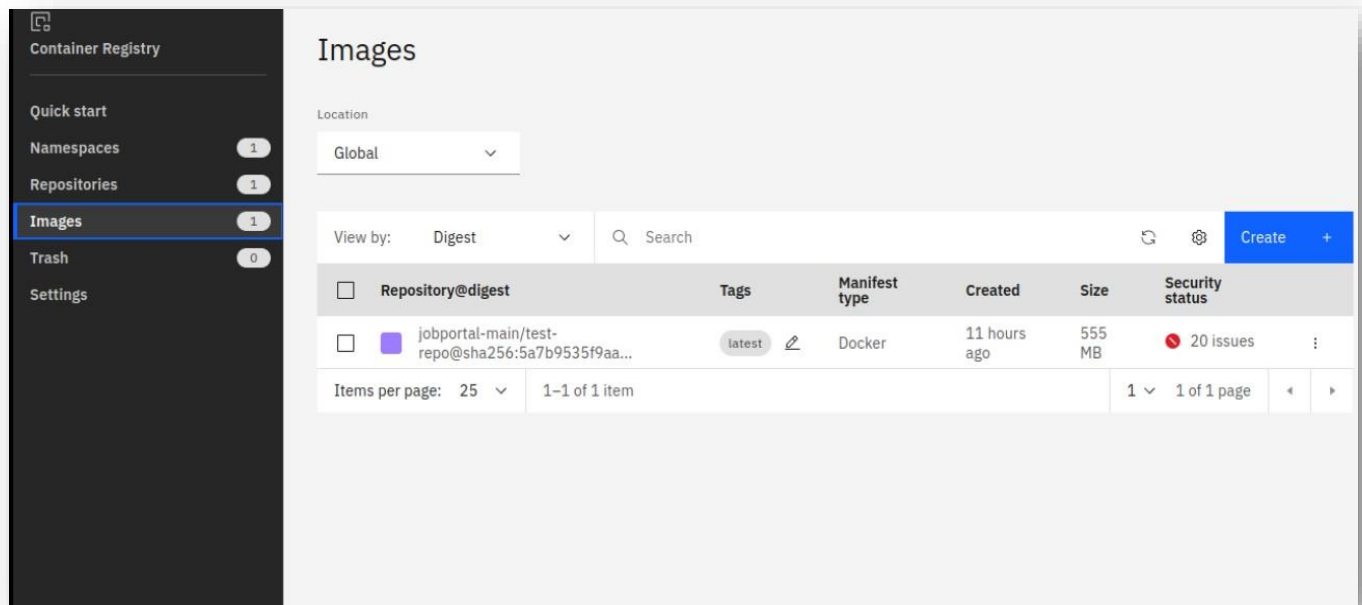
The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:57:32, a 'CLOSE SESSION' button, and an 'Instances' section with a '+ ADD NEW INSTANCE' button. Below this, an instance named '192.168.0.8 node1' is listed. The main area displays details for the instance 'cddvksm0\_cddvkvm0qau000a07j5g', including its IP (192.168.0.8), memory usage (1.24%), and CPU usage (0.31%). There are 'DELETE' and 'EDITOR' buttons. The terminal window shows a warning message and the successful execution of 'docker pull hello-world' and 'docker run hello-world' commands. A Windows activation watermark is visible in the bottom right corner of the terminal area.

```
#####  
# WARNING!!!!  
# This is a sandbox environment. Using personal credentials  
# is HIGHLY! discouraged. Any consequences of doing so are  
# completely the user's responsibilities.  
#  
# The PWD 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:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7  
Status: Downloaded newer image for hello-world:latest  
docker.io/library/hello-world:latest  
[node1] (local) root@192.168.0.8 ~  
$ docker run hello-world
```


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

The screenshot shows a 'Job Board' application interface. The header includes a search bar with the text 'Find your dream job' and a 'Post A Job' button. Below the header, there's a 'Popular Search' section with buttons for various categories: Design & Creative, Marketing, Administration, Teaching & Education, Engineering, Software & Web, and Telemarketing. The main content area is titled 'Popolar Categories' (note the typo) and displays a grid of category cards. Each card shows the category name, a count of '50' available positions, and the text 'Available position'. The categories shown are Design & Creative, Marketing, Telemarketing, Software & Web, Administration, Teaching & Education, Engineering, and Garments / Textile.

TASK – 3: Create a IBM container registry and deploy hello world app or job portal app.



TASK- 4: Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

kubernetes

default

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Create

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Cluster Roles  
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Select YAML or JSON file specifying the resources to deploy to the currently selected namespace. [Learn more](#) ⓘ

Choose YAML or JSON file

UploadCancel

### Kubernetes clusters

Resource group: Filter...		Location: Filter...		Search	Create cluster	
Name	State	Location	Worker count	Created	Version	Infrastructure
jaga-cluster	Normal	Amsterdam 03	1	Expires in 30 days	1.23.12_1546	Classic
Items per page: 25		1-1 of 1 item			1	1 of 1 page