

1.Pull an image from docker hub and run it in docker playground.

The screenshot shows the Docker Playground interface in a web browser. The top bar includes tabs for 'IBM-EPBL/Assignment', '127.0.0.1', 'Docker Playground', 'Docker Hub', and '192.168.0.28'. The address bar shows the URL: `labs.play-with-docker.com/p/cdj2d4n91rrg00c7p2m0#cdj2d4n9_cdj2emu3tccg008jltng`.

On the left sidebar, there is a 'CLOSE SESSION' button, an 'Instances' section with a list of instances (one instance named 'node1' with IP '192.168.0.28' is listed), and a '+ ADD NEW INSTANCE' button.

The main area displays the details of the selected instance 'cdj2d4n9_cdj2emu3tccg008jltng':

- IP: 192.168.0.28
- Memory: 2.29% (91.43MiB / 3.906GiB)
- CPU: 0.39%
- SSH: `ssh ip172-18-0-8-cdj2d4n91rrg00c7p2m0@direct.labs.play-v`

Below the instance details, there are 'DELETE' and 'EDITOR' buttons. A terminal window shows the following commands and output:

```
7d694ce25b07: Pull complete
99f5116afda5: Pull complete
Digest: sha256:4ee5a832ef6eee533df7224b80d4cceb9ab219599014f408d0b69690be94c396
Status: Downloaded newer image for testcontainers/helloworld:latest
docker.io/testcontainers/helloworld:latest
[node1] (local) root@192.168.0.28 ~
$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
imcmcom/helloworld latest             25fc249f6cc8       15 months ago      11.9MB
testcontainers/helloworld latest             6974669be52b       2 years ago        12.7MB
[node1] (local) root@192.168.0.28 ~
$ docker run t
testcontainers/helloworld testcontainers/helloworld:latest
[node1] (local) root@192.168.0.28 ~
$ docker run testcontainers/helloworld
2022/11/05 09:07:14 DELAY START MSEC: 0
2022/11/05 09:07:14 Sleeping for 0 ms
2022/11/05 09:07:14 Starting server on port 8080
2022/11/05 09:07:14 Sleeping for 0 ms
2022/11/05 09:07:14 Starting server on port 8081
2022/11/05 09:07:14 Ready, listening on 8080 and 8081
```

2.Create a docker file for the jobportal application and deploy it in docker desktop application

The screenshot shows the Docker Desktop application interface. The top bar includes the 'Docker Desktop' logo, an 'Update to latest' button, and a user profile 'chandra_moh'.

On the left sidebar, there is a 'Containers' section with a list of containers (one container named 'sam' with ID '571a3400ad56' is listed), and a '+ Add Extensions' button.

The main area displays the 'Containers' section with a search bar and a list of containers:

NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
sam 571a3400ad56	nutrition:latest	Running	-	40 minutes ag	Stop, Restart, Delete
jobportal 7478aafc53b6	jobportal:latest	Running	-	18 seconds ag	Stop, Restart, Delete

At the bottom, there is a status bar showing 'RAM 4.67GB', 'CPU 6.06%', 'Connected to Hub', and 'v4.12.0'.

3.create a IBM container registry and deploy helloworld app or jobportalapp

The screenshot displays the IBM Cloud Container Registry interface. The left sidebar contains navigation links: 'Container Registry', 'Quick start', 'Namespaces' (1), 'Repositories' (1), 'Images' (1), 'Trash' (0), and 'Settings'. The main content area is titled 'Images' and shows a list of images. The table has columns: 'Repository@digest', 'Tags', 'Manifest type', 'Created', 'Size', and 'Security status'. One image is listed: 'nutrition/test@sha256:f54a58bc1aac...' with a 'latest' tag, 'Docker' manifest type, '408 days ago' creation time, '2 KB' size, and 'Unsupported OS' security status. The bottom of the page shows a file explorer with 'Untitled_2022-11-...pdf' and a 'Show all' button.

Repository@digest	Tags	Manifest type	Created	Size	Security status
nutrition/test@sha256:f54a58bc1aac...	latest	Docker	408 days ago	2 KB	Unsupported OS