

## Assignment -4

### Cloud Application Development

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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 03:55:39, a 'CLOSE SESSION' button, and a list of instances. The main area displays details for a container named 'cdf7apu3\_cdf7b9u0qau000c2ro00'. It shows the IP address 192.168.0.13, memory usage at 27.43% (1.071GiB / 3.906GiB), and CPU usage at 0.57%. An SSH command is provided: 'ssh ip172-18-0-32-cdf7apu3tccg00elopf0@direct.labs.play-'. Below this, there's a terminal window showing the output of 'docker image ls' command, listing images like 'helloapp' and 'python'.

2. Create docker file for hello app application and deploy it in DockerDesktop application.

The screenshot shows the Docker Desktop interface. The left sidebar has navigation options: Containers, Images, Volumes, Dev Environments, Extensions, and Add Extensions. The main area is titled 'Containers' and shows a list of running containers. The table has columns for NAME, IMAGE, STATUS, PORT(S), STARTED, and ACTIONS. Four containers are listed, all in 'Running' status. The bottom status bar shows RAM usage at 3.41GB, CPU usage at 3.06%, and a connection to the Hub.

3. Create IBM container for registry and deploy helloworld app
4. Create a Kubernetes cluster in IBM cloud and deploy helloworld.  
And also expose the same app to run in nodeport.

