

Assignment -4

Cloud Application Development

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Student Name	ABHIJITH M
Student Roll Number	711619104001

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:latest' and 'python:latest'.

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. At the bottom, there's a status bar showing RAM usage (3.41GB), CPU usage (3.06%), and connection status (Connected to 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.

