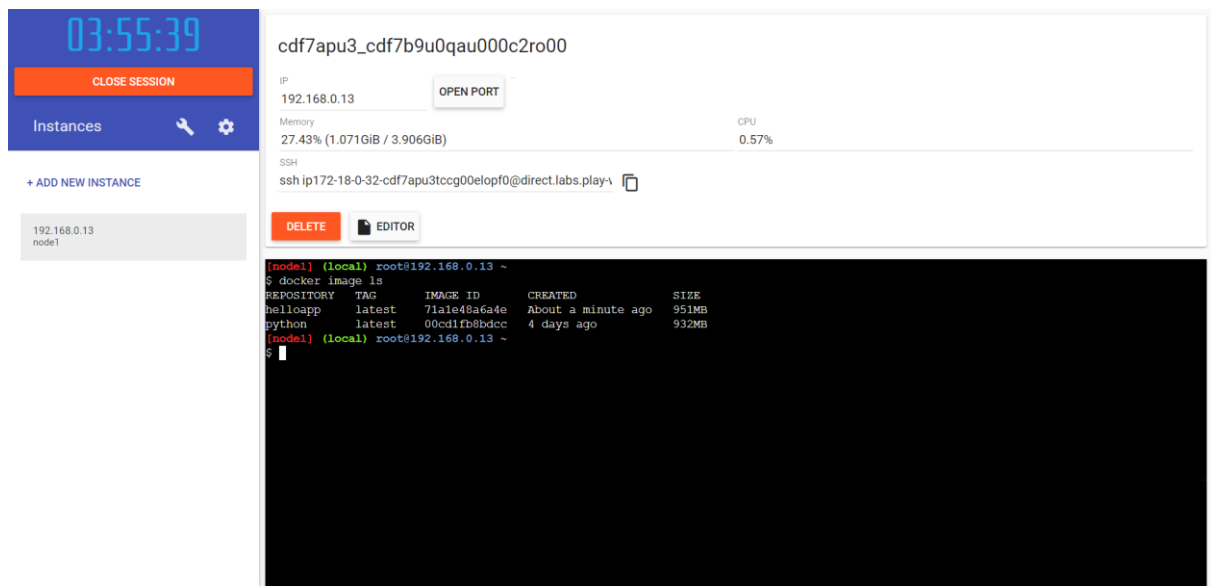


Assignment -3

Cloud Application Development

Assignment Date	29 October 2022
Student Name	SUBBU KUTTY B
Student Roll Number	711619104049

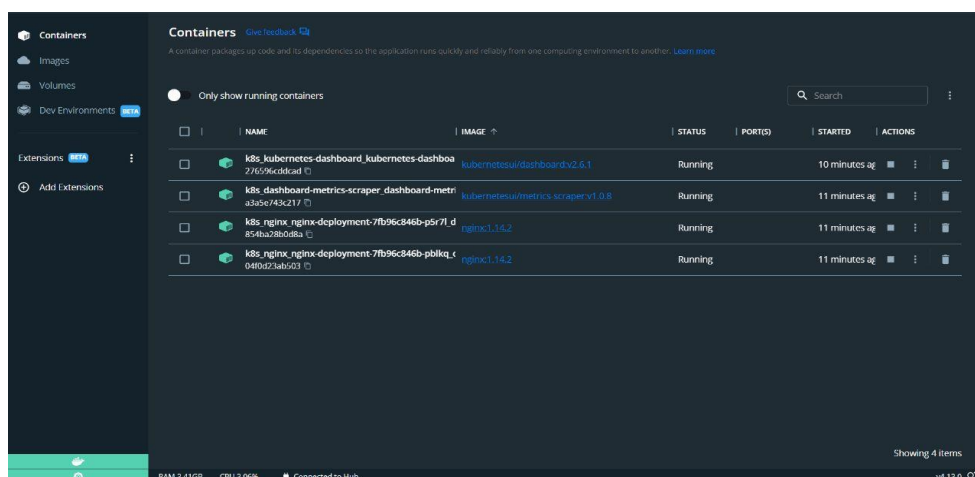
1. Pull an image from Docker hub and run it in docker playground.



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 an instance named 'cdf7apu3_cdf7b9u0qau000c2ro00' with IP 192.168.0.13. Below this, there's a terminal window showing the command 'docker image ls' and its output:

```
[model] (local) root@192.168.0.13 ~
$ docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
helloapp      latest    71a1e48a6a4e   About a minute ago   951MB
python        latest    00cd1fb8bdec   4 days ago         932MB
```

2. Create docker file for helloapp application and deploy it in Docker Desktop application.



The screenshot shows the Docker Desktop interface. On the left, there's a sidebar with 'Containers' selected. The main area displays a list of running containers. The table below shows the details of the containers:

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	k8s_kubernetes-dashboard_kubernetes-dashboa-276596cddcad	kubernetesui/dashboardv2.6.1	Running		10 minutes ag	
<input type="checkbox"/>	k8s_dashboard-metrics-scraper_dashboard-metri-a3a5e743c217	kubernetesui/metrics.scraper.v1.0.0	Running		11 minutes ag	
<input type="checkbox"/>	k8s_nginx_nginx-deployment-7fb96c846b-p5r7l-d-854ba28b0d8a	nginx1.16.2	Running		11 minutes ag	
<input type="checkbox"/>	k8s_nginx_nginx-deployment-7fb96c846b-pblik-q-048d234b503	nginx1.16.2	Running		11 minutes ag	

At the bottom, it shows 'Showing 4 items' and system metrics: RAM 3.41GB, CPU 3.06%, and '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.

