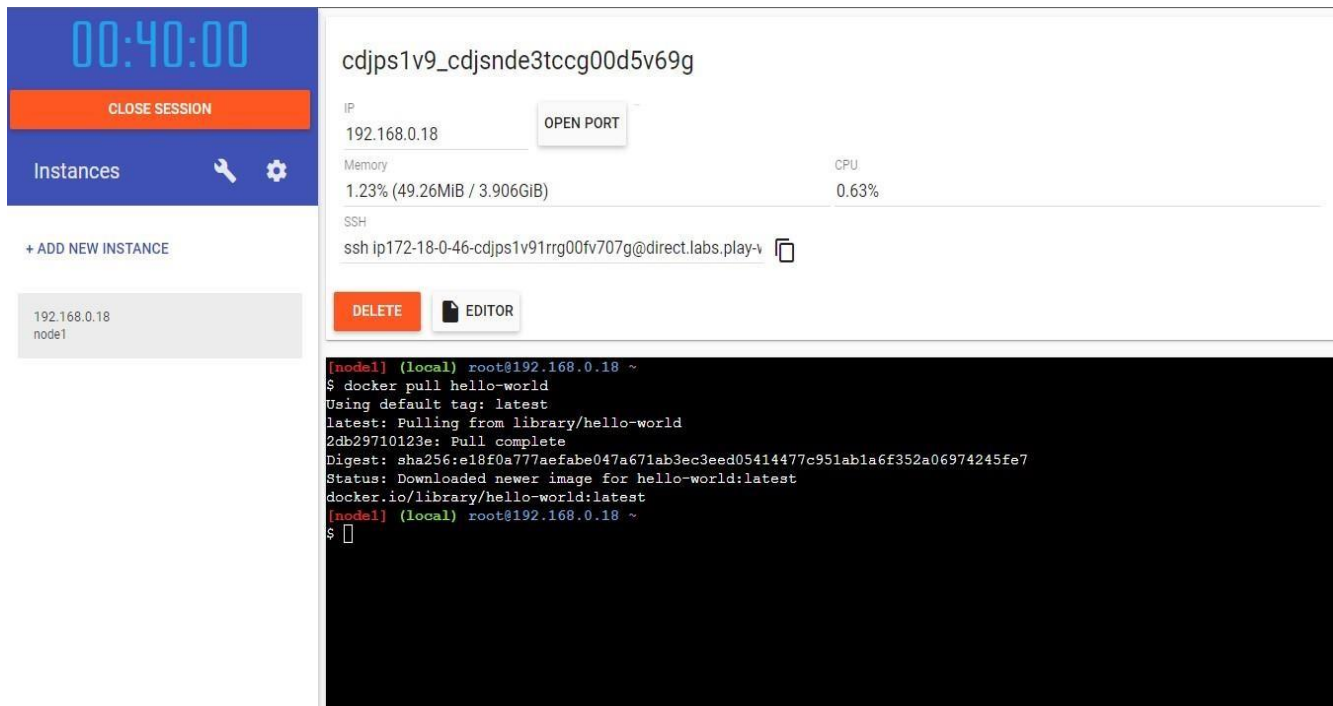


Assignment -4

Assignment Date	29 octobar 2022
Team ID	PNT2022TMID45210
Maximum Marks	2 Marks

Question 1:

Pull an Image from docker hub and run it in docker playground.



The screenshot displays the Docker Playground interface. On the left, a sidebar shows a timer at 00:40:00, a 'CLOSE SESSION' button, and a list of instances with one instance named 'node1' at IP 192.168.0.18. The main panel shows details for the selected instance 'cdjps1v9_cdjsnde3tccg00d5v69g', including its IP address, memory usage (1.23%), CPU usage (0.63%), and an SSH command. Below this, there are 'DELETE' and 'EDITOR' buttons. The terminal window at the bottom shows the following output:

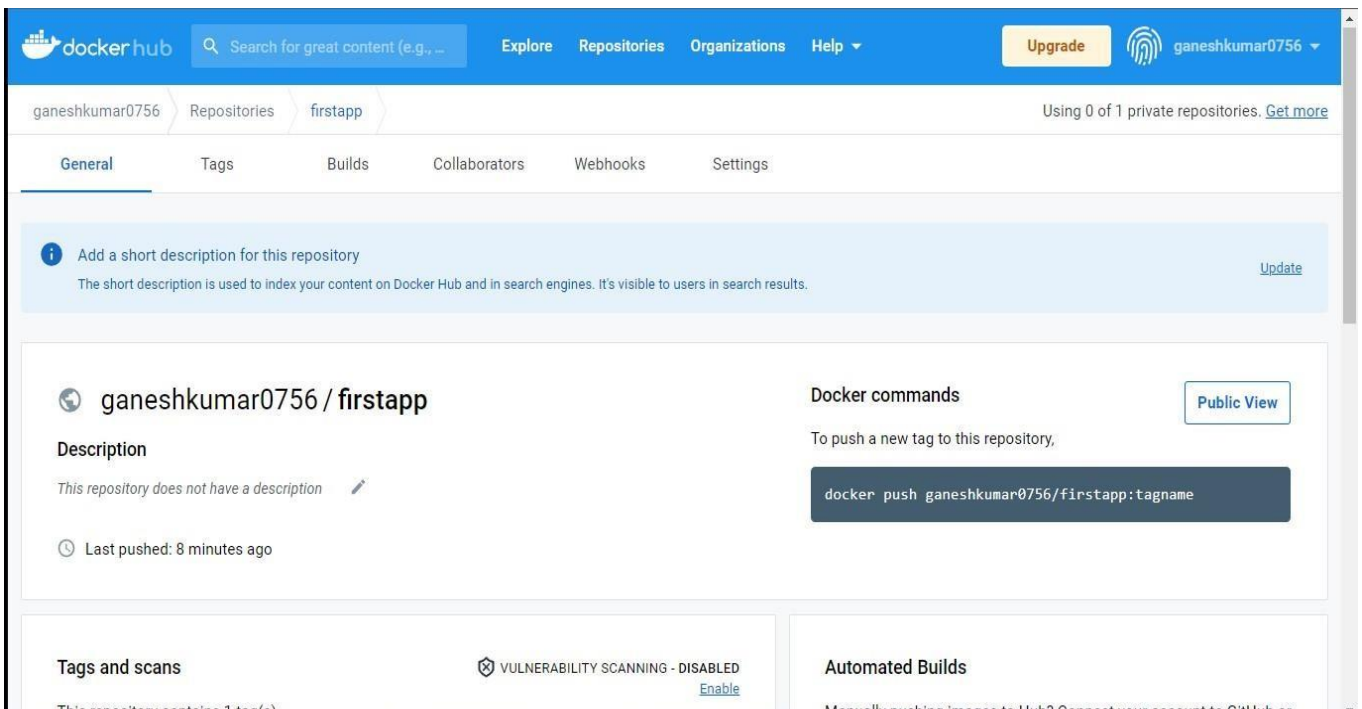
```
[node1] (local) root@192.168.0.18 ~
$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
[node1] (local) root@192.168.0.18 ~
$
```

Question 2:

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

The screenshot shows the Visual Studio Code interface. The Explorer sidebar on the left displays a project structure with a 'DEMO APP' folder containing 'static', 'templates', 'homepage.html', 'demoapp.py', 'Dockerfile', and 'requirements.txt'. The 'requirements.txt' file is open in the editor, showing a single line: `1 flask`. The Dockerfile is also visible in the Explorer. The Terminal window at the bottom shows the output of a `docker push` command. The output indicates that the image `ganeshkumar0756/firstapp` is being pushed to the Docker Hub registry. The push process involves resolving the host `registry-1.docker.io` and pushing the image layers. The final output shows the image is pushed successfully with a digest of `sha256:ef63c4717de04324ad3f1cd23b8925d0fffc327c3ec1f2dff41274159c67904a` and a size of 2844 bytes.

```
53b8bfee7a0a: Pushed
5b3f1ed98915: Retrying in 1 second
6b183c62e3d7: Retrying in 3 seconds
882fd36bfd35: Retrying in 3 seconds
d1dec9917839: Retrying in 3 seconds
d38adf39e1dd: Waiting
4ed121b04368: Waiting
d9d07d703dd5: Waiting
dialing registry-1.docker.io:443 no HTTPS proxy: resolving host registry-1.docker.io: lookup registry-1.docker.io: no such host
PS E:\Demo app> docker push ganeshkumar0756/firstapp
Using default tag: latest
The push refers to repository [docker.io/ganeshkumar0756/firstapp]
4f6e29f7eeb4: Preparing
4f6e29f7eeb4: Pushed
222ccf063835: Layer already exists
6f6e69c2c592: Layer already exists
53b8bfee7a0a: Layer already exists
5b3f1ed98915: Pushed
6b183c62e3d7: Pushed
882fd36bfd35: Pushed
d1dec9917839: Pushed
d38adf39e1dd: Pushed
4ed121b04368: Pushed
d9d07d703dd5: Pushed
latest: digest: sha256:ef63c4717de04324ad3f1cd23b8925d0fffc327c3ec1f2dff41274159c67904a size: 2844
PS E:\Demo app>
```



Question 3: Create a IBM container registry and deploy helloworld app or jobportalapp.

```
Administrator: Windows PowerShell (x86)
PS C:\Windows\system32> docker tag hello-world icr.io/12121ns/hello-world
PS C:\Windows\system32> docker push icr.io/12121ns/hello-world
using default tag: latest
The push refers to repository [icr.io/12121ns/hello-world]
e07ae10aac5f: Mounted from 86091ns/hello-world
latest: digest: sha256:f54a38bciAAC9ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
PS C:\Windows\system32>
```

Question 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.

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