

Assignment -4

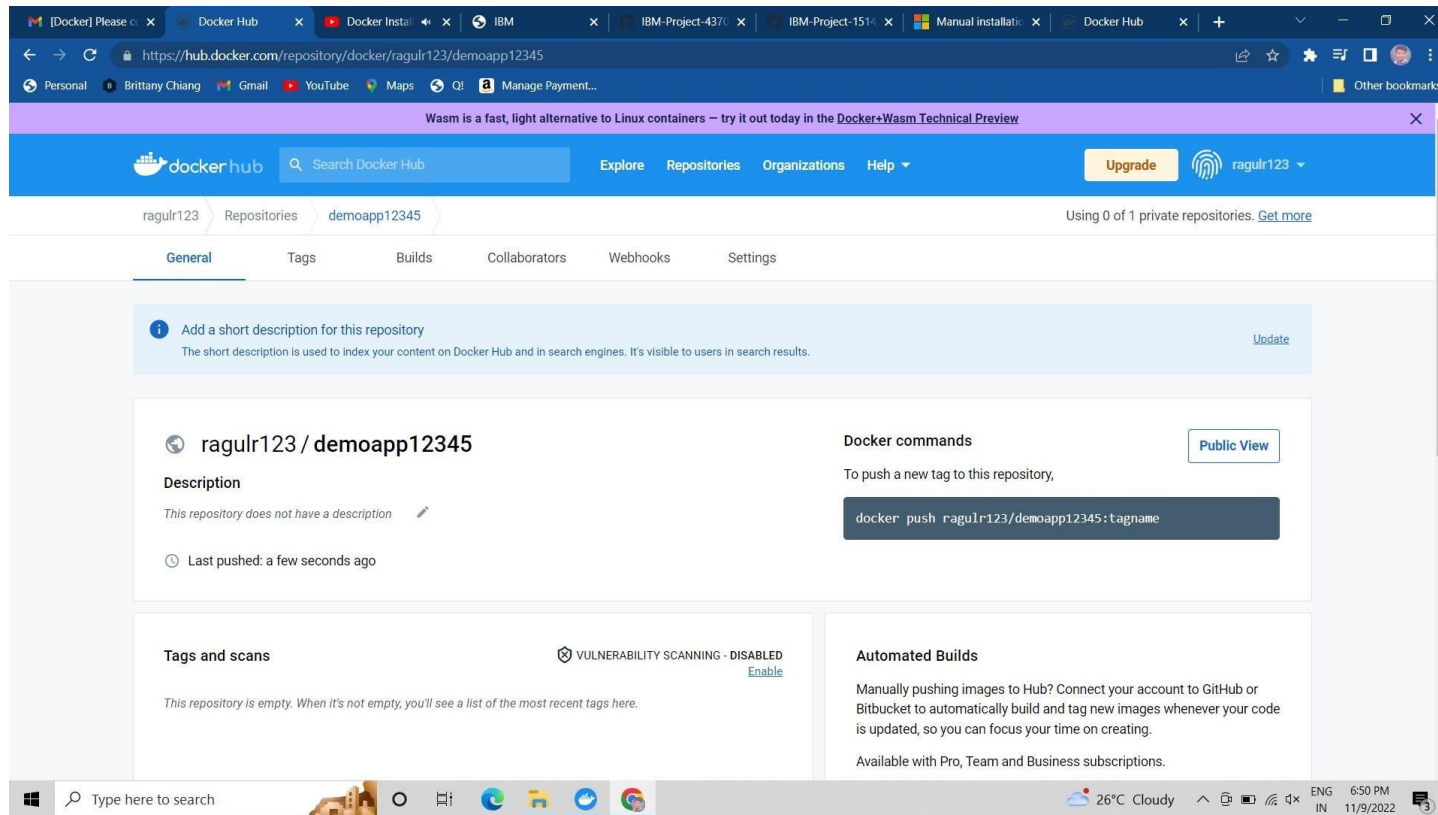
Assignment Date	05 November 2022
Student Name	GOWSEELAN.K
Student Roll Number	812019205012
Maximum Marks	2 Marks

Question 1:

The screenshot displays the Docker Playground web interface. On the left sidebar, there is a digital clock showing 03:58:33, a 'CLOSE SESSION' button, and a list of instances with one instance named 'node1' at IP 192.168.0.28. The main panel shows details for the container 'cdlqip60_cdlqitu0qau000cgheu0', including its IP (192.168.0.28), memory usage (1.14%), and CPU usage (0.70%). Below this, there is an SSH terminal window with the following content:

```
#####  
# WARNING!!!!  
# This is a sandbox environment. Using personal credentials  
# is HIGHLY discouraged. Any consequences of doing so are  
# completely the user's responsibilities.  
#  
# The FWD team.  
#####  
[node1] (local) root@192.168.0.28 ~  
$ 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@192.168.0.28 ~  
$
```

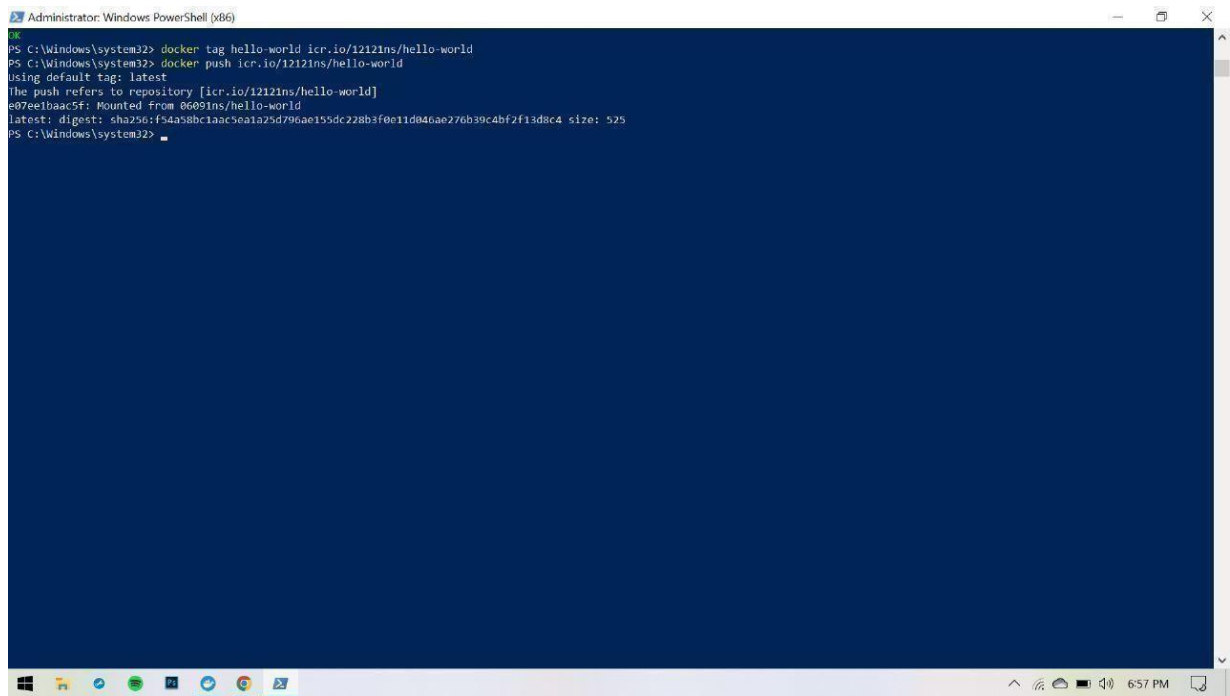
Pull an Image from docker hub and run it in docker playground.



Question 2:

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

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]
e07ee1baac5f: Mounted from 06091ns/hello-world
latest: digest: sha256:f54a58b31aacbea1a25d796ae153dc228b3f0e11d046ae276b39c4bf2f13d8c4 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.

The screenshot displays the IBM Cloud Clusters management interface. At the top, the navigation bar includes the IBM Cloud logo, a search bar, and links to Catalog, Manage, and the user's account (Ganesh Kumar R's Acc...). The main header shows the cluster name 'mycluster-free' with a status of 'Normal' and an expiration notice 'Expires in 29 days'. A 'Kubernetes dashboard' button is visible.

On the left sidebar, the 'Worker nodes' tab is selected under the 'Overview' section. The main content area shows a table of worker nodes. There is one node listed with the ID '0000002e', status 'Normal', worker pool 'default', zone 'Milan 01', private IP '10.144.216.178', public IP '159.122.186.57', and version '1.24.7_1543'.

<input type="checkbox"/>	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
<input type="checkbox"/>	0000002e	Normal	default	Milan 01	10.144.216.178	159.122.186.57	1.24.7_1543

At the bottom of the table, there are pagination controls: 'Items per page: 25', '1-1 of 1 item', and a page selector showing '1 of 1 page'.

