

ASSIGNMENT-4

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| AssignmentDate | 01 November2022 |
| StudentName | Tony david raR M Shankaresh V Shanjay V Udayakiran S |
| StudentRegisterNumber | PNT2022TMID1356 |
| MaximumMarks | 4 Marks |

Question1:

PullanImagefromdockerhubandrunitindockerplayground.

```
PS C:\Windows\system32> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Windows\system32>
```

Question2:

CreateadockerfileforthejobportalapplicationanddeployitinDockerdesktopapplication.

FROM

helloworld:latestWORK

DIR ~/Desktop/ADD.

helloworld/

WORKDIR~/Desktop/sreyhtml

RUN pip install -r

requirementsRUNchmod

+xapp.sh

CMD["/bin/sh","app.sh"]

Question3:

Create a IBM container registry and deploy hello world app or job portal app.

```
PS C:\WINDOWS\system32> docker tag hello-world icr.io/26031ns/hello-world
PS C:\WINDOWS\system32> docker push icr.io/26031ns/hello-world
Using default tag: latest
The push refers to repository [icr.io/26031ns/hello-world]
e07ee1baac5f: Mounted from 09876ns/hello-world
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

Question4:

Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

The screenshot displays the IBM Cloud Kubernetes dashboard for a cluster named 'mycluster-free'. The cluster is in the 'Preparing master, workers...' state and expires in 30 days. The 'Worker nodes' section is active, showing a table with one node.

| Name | Status | Worker pool | Zone | Private IP | Public IP | Version |
|----------|--------|-------------|----------|----------------|---------------|-------------|
| 00000086 | Normal | default | Milan 01 | 10.144.182.125 | 169.51.200.47 | 1.24.6_1541 |

On the right side, there is a 'Help' sidebar with links to 'Log in to your cluster', 'Deploy your app', 'Expose your app', 'Add storage to your app', 'Connect integrations', 'Install add-ons', and 'Troubleshoot'.