

Assignment Kubernetes / Docker

1. Pull an Image from docker hub and run it in docker playground.
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.
3. Create a IBM container registry and deploy helloworld app or jobportalapp.
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.

```
C:\Users\HP>docker -v
Docker version 20.10.20, build 9fdeb9c

C:\Users\HP>docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
docker101tutorial	latest	3cf4b2ca6538	14 minutes ago	28.9MB
nagalakshmisubramanian/docker101tutorial	latest	3cf4b2ca6538	14 minutes ago	28.9MB
alpine/git	latest	42a1cda0ba24	2 weeks ago	43.6MB

```
C:\Users\HP>docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
e96e057aae67: Pull complete
Digest: sha256:4b1d0c4a2d2aaf63b37111f34eb9fa89fa1bf53dd6e4ca954d47caebca4005c2
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest

C:\Users\HP>docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
docker101tutorial	latest	3cf4b2ca6538	17 minutes ago	28.9MB
nagalakshmisubramanian/docker101tutorial	latest	3cf4b2ca6538	17 minutes ago	28.9MB
ubuntu	latest	a8780b506fa4	2 days ago	77.8MB
alpine/git	latest	42a1cda0ba24	2 weeks ago	43.6MB

```
C:\Users\HP>
```

Docker Desktop Upgrade plan

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Images on disk

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Images

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NAME ↑		TAG	IMAGE ID	CREATED	SIZE
alpine/git	IN USE	latest	42a1cda0ba24	16 days ago	43.61 MB
docker101tutorial	IN USE	latest	3cf4b2ca6538	16 minutes ago	28.94 MB
nagalakshmisubramanian/do...	IN USE	latest	3cf4b2ca6538	16 minutes ago	28.94 MB
ubuntu		latest	a8780b506fa4	3 days ago	77.79 MB

RAM 2.46GB CPU 0.00% Connected to Hub v4.13.1

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Containers

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A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

☐ Only show running containers

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	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	repo 33feeca247a4	alpine/git:latest	Exited			▶ ⋮ 🗑
<input type="checkbox"/>	docker-tutorial 1bc9177f100e	docker101tutorial:latest	Exited	80:80		▶ ⋮ 🗑
<input type="checkbox"/>	naga cf97cc33cf23	ubuntulatest	Exited			▶ ⋮ 🗑
<input type="checkbox"/>	naga1 92e7eb39b0a6	ubuntulatest	Running		51 seconds ago	■ ⋮ 🗑

Showing 4 items

RAM 2.47GB CPU 0.00% Connected to Hub v4.13.1

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