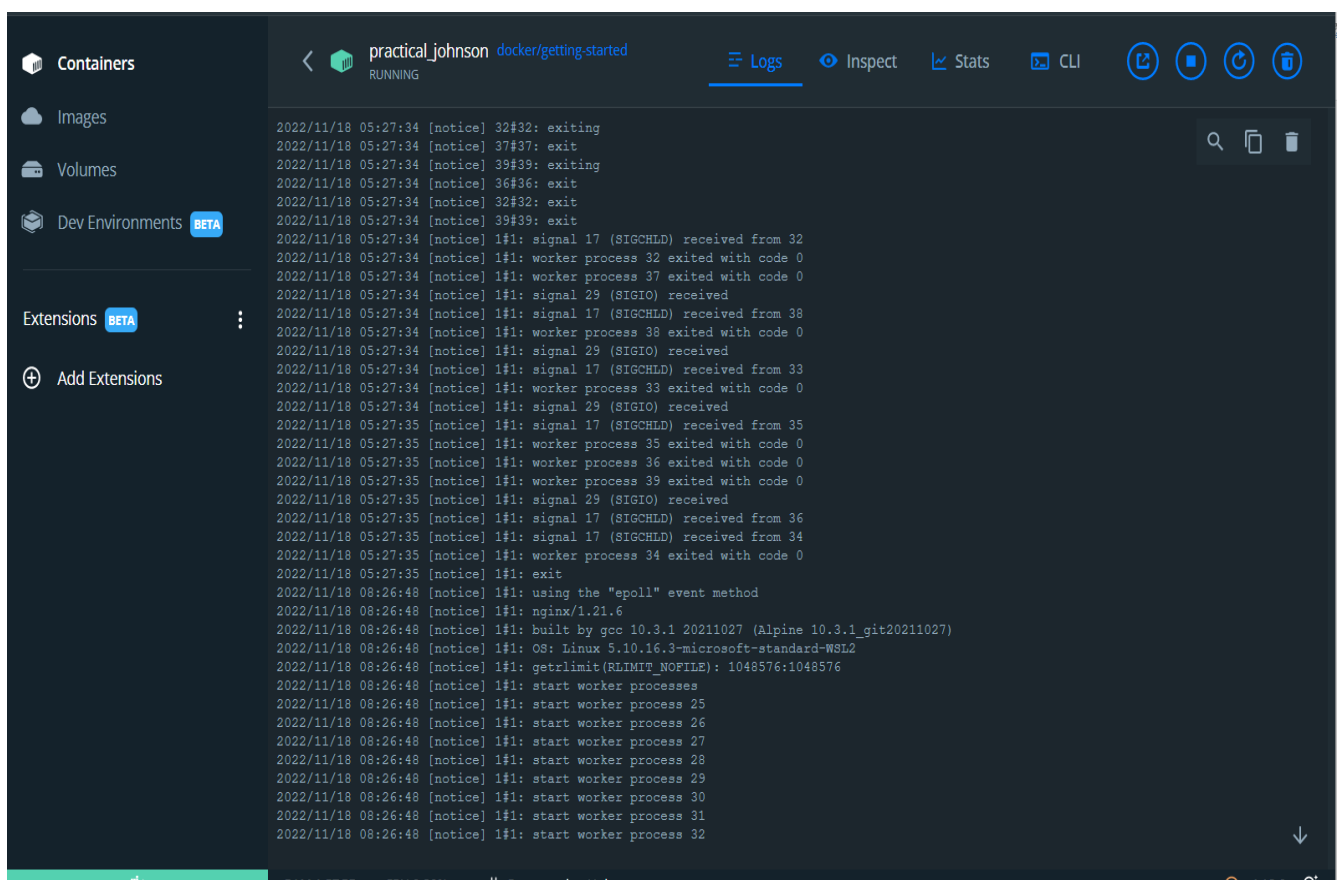


## ASSIGNMENT-4

Team ID	PNT2022TMID07374
Project Name	News Tracker Application
Maximum Marks	2 Marks
Batch Number	B2-2M4E

### Question-1:

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



The screenshot shows the Docker Desktop interface. On the left sidebar, the 'Containers' section is active, showing a list of containers. The main panel displays the logs for a container named 'practical\_johnson' (image: 'docker/getting-started'). The logs show the container is running and displaying various system messages, including process exits, signals received, and worker process management. The logs are as follows:

```
2022/11/18 05:27:34 [notice] 32#32: exiting
2022/11/18 05:27:34 [notice] 37#37: exit
2022/11/18 05:27:34 [notice] 39#39: exiting
2022/11/18 05:27:34 [notice] 36#36: exit
2022/11/18 05:27:34 [notice] 32#32: exit
2022/11/18 05:27:34 [notice] 39#39: exit
2022/11/18 05:27:34 [notice] 1#1: signal 17 (SIGCHLD) received from 32
2022/11/18 05:27:34 [notice] 1#1: worker process 32 exited with code 0
2022/11/18 05:27:34 [notice] 1#1: worker process 37 exited with code 0
2022/11/18 05:27:34 [notice] 1#1: signal 29 (SIGIO) received
2022/11/18 05:27:34 [notice] 1#1: signal 17 (SIGCHLD) received from 38
2022/11/18 05:27:34 [notice] 1#1: worker process 38 exited with code 0
2022/11/18 05:27:34 [notice] 1#1: signal 29 (SIGIO) received
2022/11/18 05:27:34 [notice] 1#1: signal 17 (SIGCHLD) received from 33
2022/11/18 05:27:34 [notice] 1#1: worker process 33 exited with code 0
2022/11/18 05:27:34 [notice] 1#1: signal 29 (SIGIO) received
2022/11/18 05:27:35 [notice] 1#1: signal 17 (SIGCHLD) received from 35
2022/11/18 05:27:35 [notice] 1#1: worker process 35 exited with code 0
2022/11/18 05:27:35 [notice] 1#1: worker process 36 exited with code 0
2022/11/18 05:27:35 [notice] 1#1: worker process 39 exited with code 0
2022/11/18 05:27:35 [notice] 1#1: signal 29 (SIGIO) received
2022/11/18 05:27:35 [notice] 1#1: signal 17 (SIGCHLD) received from 36
2022/11/18 05:27:35 [notice] 1#1: signal 17 (SIGCHLD) received from 34
2022/11/18 05:27:35 [notice] 1#1: worker process 34 exited with code 0
2022/11/18 05:27:35 [notice] 1#1: exit
2022/11/18 08:26:48 [notice] 1#1: using the "epoll" event method
2022/11/18 08:26:48 [notice] 1#1: nginx/1.21.6
2022/11/18 08:26:48 [notice] 1#1: built by gcc 10.3.1 20211027 (Alpine 10.3.1_git20211027)
2022/11/18 08:26:48 [notice] 1#1: OS: Linux 5.10.16.3-microsoft-standard-WSL2
2022/11/18 08:26:48 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2022/11/18 08:26:48 [notice] 1#1: start worker processes
2022/11/18 08:26:48 [notice] 1#1: start worker process 25
2022/11/18 08:26:48 [notice] 1#1: start worker process 26
2022/11/18 08:26:48 [notice] 1#1: start worker process 27
2022/11/18 08:26:48 [notice] 1#1: start worker process 28
2022/11/18 08:26:48 [notice] 1#1: start worker process 29
2022/11/18 08:26:48 [notice] 1#1: start worker process 30
2022/11/18 08:26:48 [notice] 1#1: start worker process 31
2022/11/18 08:26:48 [notice] 1#1: start worker process 32
```

### Question-2:

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

**FROM jobportal1: latest**

**WORKDIR ~/Desktop/**

**ADD. jobportal1/**

**WORKDIR ~/Desktop/html**

**RUN pip install -r requirements**

**RUN chmod + x app.sh**

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

### Question-3:

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

```
PS C:\Users\HP> docker tag hello-world icr.io/0034ns/helloworld
PS C:\Users\HP> docker push icr.io/0034ns/helloworld
Using default tag: latest
The push refers to repository [icr.io/0034ns/helloworld]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

### Question-4:

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.

