



Experiment No. 1.4

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Branch: MCA-CCD

Semester: III

Subject Name: CONTAINERIZATION

WITH DOCKER

UID: 22MCC20177

Section/Group: MCD-1/A

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1. Aim/Overview of the practical:

a) Managing Containers with the Docker CLI.

2. Code for practical: (a) →

Creating a container through CLI

Step 1: Pull an image from the default registry using "Sudo docker pull image:tag" command.

Step 2 : Run an image inoder to make a container using the command "docker run -d imagename".

```
kg @ __ kg-Nitro in __ docker

sudo docker pull nginx:latest

[sudo] password for kg:

latest: Pulling from library/nginx

a378f10b3218: Pull complete

4dfff0708538: Pull complete

2135e49ace4b: Pull complete

c843f6b280ce: Pull complete

6f35ab6f1400: Pull complete

6c538b49fa4a: Pull complete

d57731fb9008: Pull complete

Digest: sha256:b4af4f8b6470febf45dc10f564551af682a802eda1743055a7dfc8332dffa595

Status: Downloaded newer image for nginx:latest

docker.io/library/nginx:latest
```







Stop the Running Container using CLI

Step 1: In order to stop a running container use command "docker stop contID".

```
kg @ ■ kg-Nitro in docker

sudo docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS

PORTS NAMES

146ee9745467 nginx "/docker-entrypoint..." 2 minutes ago Up 2 minutes

0.0.0.0:80->80/tcp, :::80->80/tcp heuristic_goldberg

kg @ ■ kg-Nitro in docker

sudo docker stop 146ee

146ee
```

Restart the container using CLI

Step 1: In order to restart a container use command "docker restart contID".

```
kg @ kg-Nitro in docker

| Sudo docker restart 146ee
| Kg @ kg-Nitro in docker
| kg @ kg-Nitro in docker
| Sudo docker ps
| CONTAINER ID IMAGE COMMAND CREATED STATUS
| PORTS NAMES
| 146ee9745467 nginx "/docker-entrypoint..." 5 minutes ago Up 4 seconds
| 0.0.0.0:80->80/tcp, :::80->80/tcp heuristic_goldberg
```

Remove the container using CLI

- **Step 1**: In order to remove a container first we have to stop the running container.
- **Step 2 :** Then use command "docker rm contID".

```
kg @ ■ kg-Nitro in  docker

> sudo docker stop 146ee

146ee

Login kg @ ■ kg-Nitro in  docker

> sudo docker rm 146ee

146ee
```