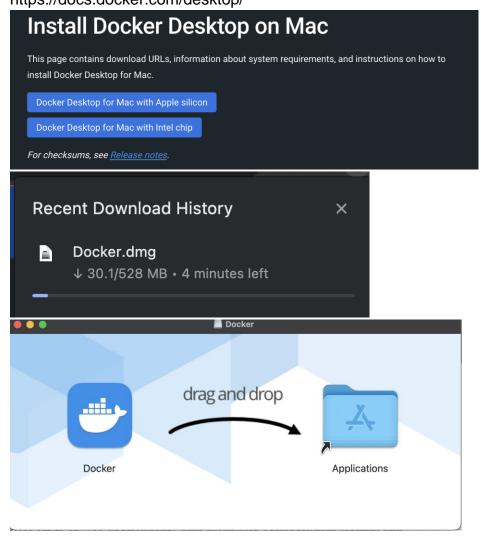
## **Practical-4**

Aim: Introduction of Docker set-up and study of basic docker commands

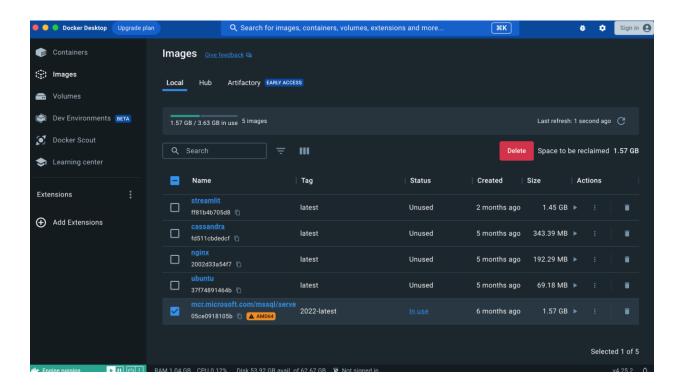
Setting up Docker on a Linux system and learning some basic Docker commands is a valuable skill for containerization and managing software applications. Perform the following tasks:

Task 1: Install the Docker Command Line Interface Tool from: https://docs.docker.com/desktop/



**Docker Desktop** 

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## Task 2: Hands-on on docker commands:

- Execute the different docker commands to work pull the image from the docker hub and run the image in your local system.
- Commands to run the container with the name of your choice

```
[(base) arthjani@Arths-MacBook-Air ~ % docker run --name ng1 nginx
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2023/11/28 06:50:40 [notice] 1#1: using the "epoll" event method
2023/11/28 06:50:40 [notice] 1#1: nginx/1.25.1
2023/11/28 06:50:40 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2023/11/28 06:50:40 [notice] 1#1: OS: Linux 6.4.16-linuxkit
2023/11/28 06:50:40 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2023/11/28 06:50:40 [notice] 1#1: start worker processes
2023/11/28 06:50:40 [notice] 1#1: start worker process 29
```

Command to list all the images and containers

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```
(base) arthjani@Arths-MacBook-Air ~ % docker images
REPOSITORY
               TAG
                           IMAGE ID
                                            CREATED
                                                              SIZE
streamlit
               latest
                           ff81b4b705d8
                                             7 weeks ago
                                                              1.46GB
cassandra
               latest
                           fd511cbdedcf
                                            4 months ago
                                                              343MB
                           2002d33a54f7
                                                              192MB
nainx
               latest
                                             4 months ago
ubuntu
               latest
                           37f74891464b
                                            5 months ago
                                                              69.2MB
(base) arthiani@Arths-MacBook-Air ~ %
(base) arthjani@Arths-MacBook-Air ~ % docker ps -a
CONTAINER ID IMAGE
                   COMMAND
                                                   STATUS
                                                               PORTS
7cb4a8681cc3 nginx
                   "/docker-entrypoint..."
                                       3 minutes ago
                                                   Up 3 minutes
                                                               80/tcp
                                                                       nostalgic_lalande
(base) arthjani@Arths-MacBook-Air ~ %
```

Command to delete the specified image and containers

```
[(base) arthjani@Arths-MacBook-Air ~ % docker image rm ubuntu
Untagged: ubuntu:latest
Untagged: ubuntu@sha256:0bced47fffa3361afa981854fcabcd4577cd43cebbb808cea2b1f33a3dd7f508
Deleted: sha256:37f74891464b2067aacbde60d9e2888e002af047a0d5dfc0b06b701928e0b473
Deleted: sha256:c5ca84f245d30117a9a2720cb4297cedf3642816471d4d699f4d77e39e13a39c

[(base) arthjani@Arths-MacBook-Air ~ % docker container rm ng1
ng1
```

## Delete all the containers

```
(base) arthjani@Arths—MacBook—Air ~ % docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Total reclaimed space: 0B
(base) arthjani@Arths—MacBook—Air ~ % ■
```

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