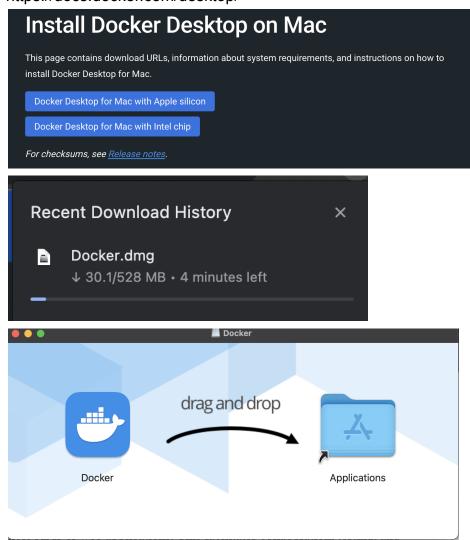
Practical-4

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

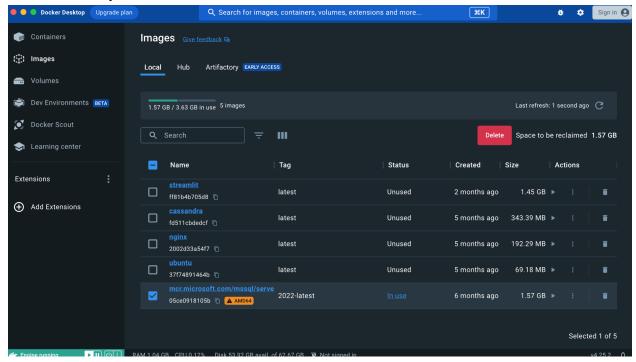
Setting up Docker on a Linux system and learning some basic Docker commands is a valuable skill for containerization and managing software applications. Perform the following tasks:

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



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Docker Desktop



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
```

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• Command to list all the images and containers

```
[(base) arthjani@Arths-MacBook-Air ~ % docker images
REPOSITORY
              TAG
                        IMAGE ID
                                        CREATED
                                                       SIZE
streamlit
              latest
                        ff81b4b705d8
                                        7 weeks ago
                                                       1.46GB
                        fd511cbdedcf
                                                       343MB
cassandra
              latest
                                        4 months ago
nginx
              latest
                        2002d33a54f7
                                        4 months ago
                                                       192MB
                                        5 months ago
                                                       69.2MB
ubuntu
              latest
                        37f74891464b
(base) arthjani@Arths-MacBook-Air ~ %
```

```
(base) arthjani@Arths-MacBook-Air ~ % docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
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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