Exercise 1

1. Install Docker Engine using the official Docker APT repository. [sudo apt-get update,]

```
ubuntu@k8s-instance-6:~$ sudo apt-get update
Get:1 https://download.docker.com/linux/ubuntu noble InRelease [48.8 kB]
Hit:2 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:3 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Get:6 https://download.docker.com/linux/ubuntu noble/stable amd64 Packages [24.0 kB]
Fetched 72.8 kB in 1s (77.5 kB/s)
Reading package lists... Done
ıbuntu@k8s-instance-6:~$ sudo apt-get install docker-ce
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 containerd.io docker-ce-cli
Suggested packages:
 cgroupfs-mount | cgroup-lite
Recommended packages:
 docker-ce-rootless-extras libltdl7 pigz docker-buildx-plugin docker-compose-plugin
The following NEW packages will be installed:
 containerd.io docker-ce docker-ce-cli
0 upgraded, 3 newly installed, 0 to remove and 0 not upgraded.
Need to get 65.5 MB of archives.
After this operation, 256 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 https://download.docker.com/linux/ubuntu noble/stable amd64 containerd.io amd64
Get:2 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce-cli amd64
Get:3 https://download.docker.com/linux/ubuntu noble/stable amd64 docker-ce amd64 5:28
Fetched 65.5 MB in 2s (38.0 MB/s)
Selecting previously unselected package containerd.io.
(Reading database ... 61503 files and directories currently installed.)
Preparing to unpack .../containerd.io_1.7.27-1_amd64.deb ...
```

2. Enable and start the Docker service.

```
ubuntu@k8s-instance-6:~$ sudo systemctl enable docker
Synchronizing state of docker.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable docker
ubuntu@k8s-instance-6:~$
```

3. Print the info of the Docker Client and Server.

```
ubuntu@k8s-instance-6:~$ sudo docker info
Client: Docker Engine - Community
Version:
            28.1.1
Context:
            default
Debug Mode: false
Server:
Containers: 0
 Running: 0
 Paused: 0
 Stopped: 0
Images: 0
Server Version: 28.1.1
Storage Driver: overlay2
 Backing Filesystem: extfs
 Supports d type: true
 Using metacopy: false
 Native Overlay Diff: true
 userxattr: false
Logging Driver: json-file
Cgroup Driver: systemd
Cgroup Version: 2
Plugins:
 Volume: local
 Network: bridge host ipvlan macvlan null overlay
 Log: awslogs fluentd gcplogs gelf journald json-file local splunk syslog
Swarm: inactive
Runtimes: io.containerd.runc.v2 runc
Default Runtime: runc
Init Binary: docker-init
containerd version: 05044ec0a9a75232cad458027ca83437aae3f4da
runc version: v1.2.5-0-g59923ef
init version: de40ad0
Security Options:
 apparmor
 seccomp
  Profile: builtin
 cgroupns
Kernel Version: 6.8.0-52-generic
Operating System: Ubuntu 24.04.2 LTS
OSType: linux
Architecture: x86 64
CPUs: 4
Total Memory: 7.749GiB
Name: k8s-instance-6
ID: f3d65c0b-af65-4818-9f09-a0fd633c2653
Docker Root Dir: /var/lib/docker
Debug Mode: false
Experimental: false
Insecure Registries:
 ::1/128
 127.0.0.0/8
Live Restore Enabled: false
```

1. Search for the official repos of Ubuntu, Alpine, Nginx.

```
ıbuntu@k8s-instance-6:∾$ sudo docker search --filter is-official=true Ubuntu
NAME
          DESCRIPTION
                                                                       OFFICIAL
          Ubuntu is a Debian-based Linux operating sys...
ubuntu
                                                             17551
                                                                       [OK]
ubuntu@k8s-instance-6:∾$ sudo docker search --filter is-official=true Alpine
NAME
          DESCRIPTION
                                                             STARS
                                                                       OFFICIAL
          A minimal Docker image based on Alpine Linux...
alpine
                                                             11265
                                                                       [OK]
ubuntu@k8s-instance-6:~$ sudo docker search --filter is-official=true Nginx
          DESCRIPTION
                                      STARS
                                                 OFFICIAL
NAME
          0000-1-1
```

2. Run an Nginx container using the image from the official repo.

```
ance-6:∼$ sudo docker container list -a
                                                                                                                                                                                   MAMES
dazzling_jackson
pedantic_galois
admiring_varahamihiraubun
                                        COMMAND
"/docker-entrypoint..."
                       IMAGE
nginx
nginx
ONTAINER ID
                                                                                  CREATED
                                       "/docker-entrypoint..." About a minute ago
"/docker-entrypoint..." 3 minutes ago
"/docker-entrypoint..." 3 minutes ago
sudo docker start dazzling_jackson
                                                                                                                      Created
                                                                                                                      Exited (0) 2 minutes ago
a3f6eec02f9
                                                                                                                      Created
                instance-6:∾$
azzling_jackson
                       .ance-6:∼$ sudo docker container list
IMAGE COMMAND C
nginx "/docker-entrypoint..." 2
ONTAINER ID
                                                                                                                                                         NAMES
                                                                                                                                                          dazzling_jackson
                                                                                  2 minutes ago
                                                                                                                                         80/tcp
```

Exercise 3

- 1. Check Docker daemon status
- 2. Stop the Docker daemon
- 3. Run a container while it's stopped.
- 4. Restart the Docker daemon and run a container again

```
buntu@k8s-instance-6:∼$ systemctl status docker
   docker.service - Docker Application Container Engine
        Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
Active: active (running) since Wed 2025-04-23 20:06:30 -04; 1min 18s ago
TriggeredBy: • docker.socket
           Docs: https://docs.docker.com
     Main PID: 131246 (dockerd)
          Tasks: 18
         Memory: 23.3M (peak: 23.9M)
             CPÚ: 901ms
         CGroup: /system.slice/docker.service
                           131246 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
Apr 23 20:06:29 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:29.051005549-04:00" level=info msg=
Apr 23 20:06:29 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:29.978280810-04:00" level=warning ms
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.075663355-04:00" level=info msg="
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.07565355-04:00" level=info msg="
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.123322722-04:00" level=info msg='
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.12352186-04:00" level=info msg='
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.166064632-04:00" level=info msg='
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.175001824-04:00" level=info msg='
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.175115109-04:00" level=info msg='
Apr 23 20:06:30 k8s-instance-6 systemd[1]: Started docker.service - Docker Application Container Engine.
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.663804162-04:00" level=info msg='
ubuntu@k8s-instance-6:∼$ sudo systemctl stop docker
Stopping 'docker.service', but its triggering units are still active:
docker.socket
 ıbuntu@k8s-instance-6:~$ sudo systemctl stop docker.socket 🗠
  buntu@k8s-instance-6:~$ systemctl status docker
  docker.service - Docker Application Container Engine
Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
         Active: inactive (dead) since Wed 2025-04-23 20:07:58 -04; 13s ago
     Duration: 1min 28.322s
TriggeredBy: o docker.socket
            Docs: https://docs.docker.com
       Process: 131246 ExecStart=/usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock (code=
     Main PID: 131246 (code=exited, status=0/SUCCESS)
              CPU: 915ms
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.175001824-04:00" level=info msg=
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.175115109-04:00" level=info msg=
Apr 23 20:06:30 k8s-instance-6 systemd[1]: Started docker.service - Docker Application Container Engine.
Apr 23 20:06:30 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:06:30.663804162-04:00" level=info msg=
Apr 23 20:07:58 k8s-instance-6 dockerd[131246]: time="2025-04-23120:06:30.503804162-04:00" level=info msg=
Apr 23 20:07:58 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:07:58.497712410-04:00" level=info msg=
Apr 23 20:07:58 k8s-instance-6 systemd[1]: Stopping docker.service - Docker Application Container Engine.
Apr 23 20:07:58 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:07:58.500517066-04:00" level=info msg=
Apr 23 20:07:58 k8s-instance-6 dockerd[131246]: time="2025-04-23T20:07:58.500959667-04:00" level=info msg=
Apr 23 20:07:58 k8s-instance-6 systemd[1]: docker.service: Deactivated successfully.
Apr 23 20:07:58 k8s-instance-6 systemd[1]: Stopped docker.service - Docker Application Container Engine.
 ubuntu@k8s-instance-6:∾$
 buntu@k8s-instance-6:~$ docker run --name alpine10 alpine
docker: Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running?
Run 'docker run --help' for more information
 Jbuntu@k8s-instance-6:≈$ sudo systemctl start docker
Jbuntu@k8s-instance-6:≈$ docker run --name alpine10 alpine <
```

- 1. Run an Ubuntu container interactively.
- 2. Use apt update && apt install curl inside the container.
- 3. Exit the container.

```
ubuntu@k8s-instance-6:∿$ docker run -it ubuntu
root@4281c2cf4192:/# apt update && apt install curl
Get:1 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:3 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [2
Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:5 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [1
```

```
oot@4281c2cf4192:/# curl http://10.26.32.56/
(!DOCTYPE html>
<html>
(head)
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
(/style>
(/head>
(body)
<h1>Welcome to nginx!</h1>
If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.
For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.
Thank you for using nginx.
(/body>
</html>
oot@4281c2cf4192:/# exit
exit
```

- 1. List running containers:
- 2. List all containers (including exited)

```
CREATED
                                                                                                                                                                                3dd6ba176924
544995d24af9
a422350df3ce
                           nginx
nginx
nginx
nginx
                                                    /docker-entrypoint..."
/docker-entrypoint..."
/docker-entrypoint..."
                                                                                                    40 minutes ago
About an hour
22 hours ago
                                                                                                                                               Up 40 minutes
Up 54 minutes
Up 22 hours
                                                                                                                                  ago
                                                                                                                                                                                                                                                                       webserver3
dazzling_jackson
                                                docker ps -d
COMMAND
"/docker-entrypoint..."
"/docker-entrypoint..."
"/docker-entrypoint..."
                                                                                                    CREATED
40 minutes ago
About an hour ago
About an hour ago
 Duntugkes-in
ONTAINER ID
dd6ba176924
44995d24af9
                            IMAGE
nginx
nginx
                                                                                                                                              STATUS
Up 40 minutes
Up 54 minutes
Exited (0) 55 minutes ago
                                                                                                                                                                                                        PORTS 0.0.0.8080->80/tcp, [::]:8080->80/tcp
                                                                                                                                                                                                                                                                                               sebserver2
dazzling_jackson
```

Exercise 6

1. Run a container in the background (option -d)

```
EPOSITORY TAG IMAGE ID CREATED SIZE
buntu@k8s-instance-6:~$ docker run -d --name nginx nginx
b8ab2c5f74d26067c0a3b7624d684480915adf21828931d92cd2851e2de0c37b
buntu@k8s-instance-6:~$ docker images ps -a
                         IMAGE ID CREATED
REPOSITORY
                                              SIZE
buntu@k8s-instance-6:~$ docker ps
CONTAINER ID
                IMAGE
                           COMMAND
                                                       CREATED
                                                                          STATUS
                                                                                           PORTS
                                                                                                      NAMES
                           "/docker-entrypoint..."
b8ab2c5f74d2
                nginx
                                                       10 seconds ago
                                                                          Up 9 seconds
                                                                                           80/tcp
                                                                                                      nginx
```

2. Then Pause it

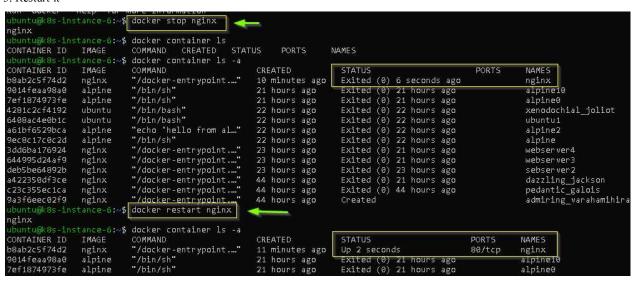
```
docker container Is
CONTAINER ID
                                                   CREATED
                                                                         STATUS
                                                                                              PORTS
                                                                                                        NAMES
               TMAGE
                         COMMAND
                         "/docker-entrypoint
                                                   About a minute ago
                                                                         Up About a minute
b8ab2c5f74d2
               nginx
                                                                                              80/tcp
                                                                                                        nginx
buntu@k8s-instance-6:∾¶
                         docker pause nginx
nginx
buntu@k8s-instance-6:~$
                         docker container ls
CONTAINER ID
                                                                                                       NAMES
               IMAGE
                         COMMAND
                                                   CREATED
                                                                                             PORTS:
                                                                    Up 4 minutes (Paused)
o8ab2c5f74d2
               nginx
                          "/docker-entrypoint.…
                                                   4 minutes ago
                                                                                             80/tcp
                                                                                                       nginx
```

3. Unpause it:

```
buntu@k8s-instance-6:~$ docker container pause b8ab2c5f74d2
ubuntu@k8s-instance-6:~$ |docker unpause nginx
nginx
ubuntu@k8s-instance-6:~$ docker container ls
CONTAINER ID
               IMAGE
                         COMMAND
                                                   CREATED
                                                                   STATUS
                                                                                   PORTS
                                                                                             NAMES
                         "/docker-entrypoint..."
b8ab2c5f74d2
              nginx
                                                                                   80/tcp
                                                                                             nginx
                                                   7 minutes ago
                                                                   Up 7 minutes
ıbuntu@k8s-instance-6:~$
```

4. Stop it

5. Restart it



6. Kill it



Remove a running container.

```
COMMAND
"/docker-entrypoint..."
                                                                                                                   PORTS
 CONTAINER ID
                   TMAGE
                                                              CREATED
                                                                                   STATUS
                                                                                                                                NAMES
b8ab2c5f74d2
                                                              20 minutes ago
                                                                                   Up 34 seconds
                                                                                                                   80/tcp
                                                                                                                               nginx
alpine10
                  nginx
                                                                                  Up 34 seconds
Exited (0) 21 hours ago
Exited (0) 22 hours ago
9014feaa98a0
                  alpine
                               "/bin/sh"
                                                              21 hours ago
7ef1874973fe
                   alpine
                                                              22 hours ago
                                                                                                                                alpine0
                               "/bin/bash"
4281c2cf4192
                                                              22 hours ago
                                                                                                                                xenodochial_joliot
                   ubuntu
                               "/bin/bash"
6408ac4e0b1c
                  ubuntu
                                                              22 hours ago
                                                                                                                                ubuntu1
                               "echo 'hello from al..."
a61bf6529bca
                  alpine
                                                                                                                                alpine2
                               "/bin/sh"
9ec8c17c0c2d
                                                                                                                                alpine
                  alpine
                                                              22 hours ago
3dd6ba176924
                               "/docker-entrypoint..."
                                                              23 hours ago
                                                                                                                                webserver4
                               "/docker-entrypoint...
 644995d24af9
                                                              23 hours ago
                                                                                   Up 2 seconds
                                                                                                                                webserver3
                               "/docker-entrypoint..
                                                             24 hours ago
44 hours ago
                                                                                   Exited (0) 23 hours ago
Exited (0) 22 hours ago
Exited (0) 44 hours ago
deb5be64892b
                                                                                                                                sebserver 2
                               "/docker-entrypoint..."
                                                                                                                               dazzling_jackson
a422350df3ce
                                                             44 hours ago
44 hours ago
c23c355ec1ca
                  nginx
                               "/docker-entrypoint..."
                                                                                                                               pedantic_galois
                               "/docker-entrypoint..."
9a3f6eec02f9
                  nginx
                                                                                   Created
                                                                                                                                admiring_varahamihira
                   ance-6:~$ docker container ls
                               COMMAND
"/docker-entrypoint..."
CONTAINER ID
                  IMAGE
                                                              CREATED
                                                                                   STATUS
b8ab2c5f74d2
                  nginx
                                                              20 minutes ago
                                                                                   Up 40 seconds
                                                                                                       80/tcp
                                                                                                                   nginx
 644995d24af9
                                                                                   Up 8 seconds
                                                                                                                   webserver3
                                                              23 hours ago
 webserver3
              instance-6:~$ docker container ls
                               COMMAND
"/docker-entrypoint..."
                                                                                                                        NAMES
CONTAINER ID
                  IMAGE
                                                              CREATED
                                                                                   STATUS
                                                                                                            PORTS
b8ab2c5f74d2 nginx
                                                             20 minutes ago
                                                                                   Up About a minute
                                                                                                           80/tcp
                                                                                                                        nginx
ubuntu@k8s-instance-6:∼$ docker stop nginx | docker rm nginx
Error response from daem<u>on: cannot remove container "/nginx": c</u>ontainer is running: stop the container before removing or forc
 buntu@k8s-instance-6:∿$ docker stop nginx && docker rm nginx
nginx
nginx
 buntu@k8s-instance-6:∞$ docker container ls -a
 CONTAINER ID
                  IMAGE
                                                              CREATED
                                                                                 STATUS
                                                                                                                 PORTS
                                                                                                                             NAMES
                               "/bin/sh"
9014feaa98a0
                                                                                 Exited (0) 21 hours ago
                                                              21 hours ago
                              "/bin/sh"
"/bin/bash"
7ef1874973fe
4281c2cf4192
                                                              22 hours ago
                                                                                              22 hours ago
                                                                                                                             alpine0
                  ubuntu
                                                              22 hours ago
                                                                                 Exited (0)
                                                                                              22 hours ago
                                                                                                                             xenodochial_joliot
                               "/bin/bash"
6408ac4e0b1c
                                                                                 Exited (0)
                  ubuntu
                                                              22 hours ago
                                                                                             22 hours ago
                                                                                                                             ubuntu1
                                                                                 Exited (0) 22 hours ago
a61bf6529bca
                               "echo 'hello from al..."
                                                                                                                             alpine2
                  alpine
                                                              22 hours ago
 9ec8c17c0c2d
                               "/bin/sh"
                                                              22 hours ago
                                                                                 Exited (0) 22 hours ago
                                                                                Exited (0) 22 hours ago
Exited (0) 23 hours ago
Exited (0) 23 hours ago
Exited (0) 24 hours ago
Exited (0) 44 hours ago
                               "/docker-entrypoint.
3dd6ba176924
                  nginx
                                                              23 hours ago
                                                                                                                             webserver4
                               "/docker-entrypoint..."
                                                              24 hours ago
                                                                                                                             sebserver2
dazzling_jackson
deb5be64892b
                               "/docker-entrypoint..."
                                                             44 hours ago
a422350df3ce
                  nginx
                                                                                                                             pedantic_galois
admiring_varahamihira
                  nginx
                               "/docker-entrypoint...
                                                              44 hours ago
c23c355ec1ca
                               "/docker-entrypoint..."
                                                                                 Created
9a3f6eec02f9
                  nginx
                                                              44 hours ago
```

Exercise 8

1. Pull the alpine and ubuntu images.

```
ubuntu@k8s-instance-6:~$ docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine
Digest: sha256:a8560b36e8b8210634f77d9f7f9efd7ffa463e380b75e2e74aff4511df3ef88c
Status: Image is up to date for alpine:latest
docker.io/library/alpine:latest
ubuntu@k8s-instance-6:~$ docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
Digest: sha256:1e622c5f073b4f6bfad6632f2616c7f59ef256e96fe78bf6a595d1dc4376ac02
Status: Image is up to date for ubuntu:latest
docker.io/library/ubuntu:latest
```

2. List all the container images in your Docker Host.

```
EPOSITORY
                              IMAGE ID
                latest
                              4e1b6bae1e48
                                                  7 days ago
2 weeks ago
                                                                       192MB
78.1MB
alpine
                                                  2 months ago
                                                                       7.83MB
                latest
                              aded1e1a5b37
                              $ docker container ls
COMMAND
"/docker-entrypoint..."
                  IMAGE
 ONTAINER ID
                   nginx
nginx
                                                                  58 minutes ago
About an hour ago
                                                                                              Up 57 minutes
Up About an hour
dd6ba176924
                                                                                                                        0.0.0.0:8080->80/tcp, [::]:8080->80/tcp
                                                                                                                                                                                 Webserver4
                                "/docker-entrypoint..."
"/docker-entrypoint..."
                                                                                                                                                                                 dazzling jackson
422350df3ce
                   nginx
                                                                  22 hours ago
                                                                                              Up 22 hours
```

- 1. Run alpine and execute
- 2. Run echo "hello from alpine" busy box and execute uname -a
- 3. List all the container.

```
Jbuntu@k8s-instance-6:~$ docker run --name alpine alpine
Jnable to find image 'alpine:latest' locally
Latest: Pulling from library/alpine
f18232174bc9: Pull complete
Digest: sha256:a8560b36e8b8210634f77d9f7f9efd7ffa463e380b75e2e74aff4511df3ef88c
Status: Downloaded newer image for alpine:latest
```

```
### Description of the property of the proper
```

Exercise 10

1. Remove all stopped containers.

```
ountu@k8s-instance-6:≈$ docker container ls -a
CONTAINER ID
                IMAGE
                           COMMAND
                                                       CREATED
                                                                       STATUS
                                                                                                    PORTS
                                                                                                               NAMES
                           "/bin/sh"
                                                                                                               alpine10
9014 fea a 98 a 0
                                                       22 hours ago
                                                                       Exited (0) 22 hours ago
                                                                       Exited (0)
Exited (0)
7ef1874973fe
                alpine
                                                       22 hours ago
                                                                                   22 hours ago
                                                                                                               alpine0
                           "/bin/bash"
4281c2cf4192
                                                                                   22 hours ago
                                                                                                               xenodochial_jol
                ubuntu
                                                       22 hours ago
                           "/bin/bash"
"echo 'hello from al..."
"/bin/sh"
                                                                       Exited (0) 22 hours ago
6408ac4e0b1c
                ubuntu
                                                       22 hours ago
                                                                                                               ubuntu1
a61bf6529bca
                alpine
                                                       22 hours ago
                                                                       Exited (0)
                                                                                   22 hours ago
                                                                                                               alpine2
                                                                                   22 hours ago
9ec8c17c0c2d
                alpine
                                                       22 hours ago
                                                                                                               alpine
                           "/docker-entrypoint..."
3dd6ba176924
                nginx
                                                       23 hours ago
                                                                       Exited (0)
                                                                                   22 hours ago
                                                                                                               webserver4
                           "/docker-entrypoint..."
"/docker-entrypoint..."
                                                                                   23 hours ago
22 hours ago
                                                                                                               sebserver2
deb5be64892b
                nginx
                                                       24 hours ago
a422350df3ce
                nginx
                                                       44 hours ago
                                                                       Exited (0)
                                                                                                               dazzling_jackso
                           "/docker-entrypoint..."
"/docker-entrypoint..."
23c355ec1ca
                                                       44 hours ago
                                                                       Exited (0) 44 hours ago
                                                                                                               pedantic_galois
                           "/docker-entrypoint...
9a3f6eec02f9
                                                       44 hours ago
                                                                        Created
                                                                                                               admiring_varaha
                           docker rm $(docker ps -a -q -f status=exited)
9014 feaa 98a 0
7ef1874973fe
281c2cf4192
6408ac4e0b1c
a61bf6529bca
ec8c17c0c2d
3dd6ba176924
deb5be64892b
a422350df3ce
23c355ec1ca
 ıbuntu@k8s-instance-6:∞$ docker container ls -a
CONTAINER ID
                TMAGE
                           COMMAND
                                                       CREATED
                                                                       STATUS
                                                                                  PORTS
                                                                                             NAMES
                           "/docker-entrypoint..."
9a3f6eec02f9
                nginx
                                                                                             admiring_varahamihira
                                                       44 hours ago
                                                                       Created
 ıbuntu@k8s-instance-6:∾$ docker container prune -f
Deleted Containers:
9a3f6eec02f962436c17276e9740cb9789372360134887253c8155a91be60f5f
Fotal reclaimed space: 0B
 buntu@k8s-instance-6:~$ docker container ls -a
 CONTAINER ID IMAGE
                           COMMAND CREATED STATUS
                                                            PORTS
                                                                       NAMES
 buntu@k8s-instance-6:∾$
```

2. Remove unused images.

```
wbuntu@k8s-instance-6:∼$ docker image prune -a

wARNING! This will remove all images without at least one container associated to them.

Are you sure you want to continue? [y/N] y

Deleted Images:
untagged: ubuntu:latest

untagged: ubuntu@sha256:1e622c5f073b4f6bfad6632f2616c7f59ef256e96fe78bf6a595d1dc4376ac02

deleted: sha256:602eb6fb314b5fafad376a32ab55194e535e533dec6552f82b70d7ac0e554b1c

deleted: sha256:3abdd8a5e7a8909e1509f1d36dcc8b85a0f95c68a69e6d86c6e9e3c1059d44b3

Total reclaimed space: 78.1MB

ubuntu@k8s-instance-6:∾$ docker container ls -a

CONTAINER ID IMAGE COMMAND CREATED STATUS
```

#container

```
buntu@k8s-instance-6:~$ docker container ls -a
                          COMMAND
"/bin/sh"
ONTAINER ID
                                                     CREATED
               IMAGE
                                                                      STATUS
                                                                                                             NAMES
                                                                                                             alpine0 🤜
fbd289996bb6
               alpine
                                                     3 minutes ago
                                                                      Exited (0) 3 minutes ago
                                                                      Up 3 minutes
Up 3 minutes
                          "/docker-entrypoint..."
                                                                                                             nginx2
               nginx
786b9961c76a
                                                     3 minutes ago
                                                                                                   80/tcp
                          "/docker-entrypoint..."
2e03bfcff1c2
               nginx
                                                     5 minutes ago
                                                                                                   80/tcp
                                                                                                             nginx
wARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
fbd289996bb6f5bdfb253067f996a42e855fb25106e2fad2d7dc6429c3a62b13 🔷
Total reclaimed space: 0B
       k8s-instance-6:∼$ docker container ls -a
                                                                                                 NAMES
                          COMMAND
"/docker-entrypoint...."
               TMAGE
CONTAINER ID
                                                     CREATED
                                                                      STATUS
                                                                                      PORTS
786b9961c76a
               nginx
                                                     4 minutes ago
                                                                      Up 3 minutes
                                                                                      80/tcp
                                                                                                 nginx2
                          "/docker-entrypoint..."
2e03bfcff1c2
                                                     5 minutes ago
                                                                      Up 3 minutes
                                                                                      80/tcp
                                                                                                 nginx
```

3. Inspect Docker disk usage

```
ountu@k8s-instance-6:~$ docker system df
TYPE
                                    ACTIVE
                                                                RECLATMABLE
                                                  200.3MB
                                                                0B (0%)
0B (0%)
Images
Containers
                                                  2.19kB
 ocal Volumes
                                                                0B
Build Cache
                                                                0B
 buntu@k8s-instance-6:∞$ docker ps
 ONTAINER ID
                                                                      CREATED
                                                                                              STATUS
                                                                                                                                  NAMES
nginx2
                    IMAGE
                                   COMMAND
                                                                                                                     PORTS
                                   "/docker-entrypoint..."
"/docker-entrypoint...."
                                                                                                                                                 1.09kB (virtual 192MB)
1.09kB (virtual 192MB)
                                                                      10 minutes ago
                                                                                              Up 10 minutes
                                                                                                                     80/tcp
 86b9961c76a
2e03bfcff1c2
                                                                      12 minutes ago
                                                                                              Up 10 minutes
                                                                                                                                   nginx
 buntu@k8s-instance-6:∾$ docker history nginx
                    CREATED
                                                                                                                          COMMENT
IMAGE
                                        CMD ["nginx" "-g" "daemon off;"]
STOPSIGNAL SIGQUIT
4e1b6bae1e48
                                                                                                                          buildkit.dockerfile.v0
                    8 days ago
                    8 days ago
                                                                                                                           buildkit.dockerfile.v0
missing>
                                        EXPOSE map[80/tcp:{}]
ENTRYPOINT ["/docker-entrypoint.sh"]
COPY 30-tune-worker-processes.sh /docker-ent...
                                                                                                                          buildkit.dockerfile.v0
buildkit.dockerfile.v0
 missing>
(missing>
                    8 days ago
                                                                                                            0B
                                                                                                                          buildkit.dockerfile.v0
(missing)
                    8 days ago
8 days ago
                                                                                                            4.62kB
missing>
                                        COPY 20-envsubst-on-templates.sh /docker-ent...
                                                                                                            3.02kB
                                                                                                                           buildkit.dockerfile.v0
                                                                                                                          buildkit.dockerfile.v0
buildkit.dockerfile.v0
buildkit.dockerfile.v0
 missing>
                    8 days ago
                                        COPY 15-local-resolvers.envsh /docker-entryp...
                                        COPY 10-listen-on-ipv6-by-default.sh /docker...
COPY docker-entrypoint.sh / # buildkit
RUN /bin/sh -c set -x && groupadd --syst...
(missing)
(missing)
                                                                                                             2.12kB
                    8 days ago
                                                                                                             1.62kB
                    8 days ago
8 days ago
                                                                                                                           buildkit.dockerfile.v0
(missing)
                                                                                                            118MB
 missing>
                                        ENV DYNPKG_RELEASE=1~bookworm
                                                                                                                           buildkit.dockerfile.v0
                                        ENV PKG_RELEASE=1~bookworm
ENV NJS_RELEASE=1~bookworm
ENV NJS_VERSION=0.8.10
                                                                                                                          buildkit.dockerfile.v0
buildkit.dockerfile.v0
 missing>
(missing>
                    8 days ago
                                                                                                                          buildkit.dockerfile.v0
(missing)
                    8 days ago
                                        ENV NGINX_VERSION=1.27.5
                                                                                                                           buildkit.dockerfile.v0
 missing>
 missing> 8 days ago LABEL maintainer=NGINX Docker Maintainers <d…
missing> 2 weeks ago # debian.sh --arch 'amd64' out/ 'bookworm' '…
buntu@k8s-instance-6:∾≸ docker volumern inspect nginx
 missing
                                                                                                                           buildkit.dockerfile.v0
                                                                                                            74 8MB
 missing>
                                                                                                                          debuerreotype 0.15
```