```
controlplane $ docker pull ubuntu:18.04
18.04: Pulling from library/ubuntu
72d9f18d70f3: Pull complete
Digest: sha256:a3765b4d74747b5e9bdd03205b3fbc4fa19a02781c185f97f24c8f4f84ed7bbf
Status: Downloaded newer image for ubuntu:18.04
docker.io/library/ubuntu:18.04
controlplane $ []
```

```
controlplane $ docker pull ubuntu:19.04
19.04: Pulling from library/ubuntu
4dc9c2fff018: Pull complete
0a4ccbb24215: Pull complete
c0f243bc6706: Pull complete
5ff1eaecba77: Pull complete
Digest: sha256:2adeae829bf27a3399a0e7db8ae38d5adb89bcaf1bbef378240bc0e6724e8344
Status: Downloaded newer image for ubuntu:19.04
docker.io/library/ubuntu:19.04
```

```
controlplane $ docker images
REPOSITORY      TAG        IMAGE ID       CREATED         SIZE
ubuntu          18.04      5d2df19066ac   3 weeks ago     63.1MB
hello-world     latest     feb5d9fea6a5   17 months ago   13.3kB
ubuntu          19.04      c88ac1f841b7   3 years ago     70MB
controlplane $ []
```

```
controlplane $ docker inspect c88ac1f841b7
[
    {
        "Id": "sha256:c88ac1f841b72add46f5a8b0e77c2ad6864d47e5603686ea64375acd55e27906",
        "RepoTags": [
            "ubuntu:19.04"
        ],
        "RepoDigests": [
            "ubuntu@sha256:2adeae829bf27a3399a0e7db8ae38d5adb89bcaf1bbef378240bc0e6724e8344"
        ],
        "Parent": "",
        "Comment": "",
        "Created": "2020-01-16T01:20:46.938732934Z",
        "Container": "1d952a25729fba44399443aa7cb60e2452250fc4535b7135db02424006e304d5",
        "ContainerConfig": {
            "Hostname": "1d952a25729f",
            "Domainname": "",
            "User": "",
            "AttachStdin": false,
            "AttachStdout": false,
            "AttachStderr": false,
            "Tty": false,
```

```
"Container": "1d952a25729fba44399443aa7cb60e2452250fc4535b7135db02424006e304d5",
"ContainerConfig": {
    "Hostname": "1d952a25729f",
    "Domainname": "",
    "User": "",
    "AttachStdin": false,
    "AttachStdout": false,
    "AttachStderr": false,
    "Tty": false,
    "OpenStdin": false,
    "StdinOnce": false,
    "Env": [
        "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
    ],
    "Cmd": [
        "/bin/sh",
        "-c",
        "#(nop) ",
        "CMD [\"/bin/bash\"]"
    ],
    "ArgsEscaped": true,
    "Image": "sha256:3f10343d1e6a81fe61be51ffa5c59be1744a5c22224c124f0e9bd3773c1270ba",
    "Volumes": null,
    "WorkingDir": "",
    "Entrypoint": null,
    "OnBuild": null,
```

```
controlplane $ docker inspect 5d2df19066ac
[
    {
        "Id": "sha256:5d2df19066aca89df8e5317544a1cb599dc657830184762ff6fdefaaf708db65",
        "RepoTags": [
            "ubuntu:18.04"
        ],
        "RepoDigests": [
            "ubuntu@sha256:a3765b4d74747b5e9bdd03205b3fbc4fa19a02781c185f97f24c8f4f84ed7bbf"
        ],
        "Parent": "",
        "Comment": "",
        "Created": "2023-01-26T10:03:05.221824871Z",
        "Container": "c3de9a977075ecdaa59e911a35b9e722bef84c25567a3a0931bea346b24b93d6",
        "ContainerConfig": {
            "Hostname": "c3de9a977075",
            "Domainname": "",
            "User": "",
            "AttachStdin": false,
            "AttachStdout": false,
            "AttachStderr": false,
            "Tty": false,
            "OpenStdin": false,
            "StdinOnce": false,
            "Env": [
                "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
```

```
controlplane $ docker run -d ubuntu:18.04
770a31213a91f47459e6199c06e1417506bc9742d13309d70def35bd46a69ec4
controlplane $ []
```

```
controlplane $ docker ps -a
CONTAINER ID    IMAGE           COMMAND         CREATED         STATUS                      PORTS       NAMES
770a31213a91    ubuntu:18.04    "/bin/bash"     46 seconds ago  Exited (0) 45 seconds ago               charming_snyder
aadc91699cb5    hello-world     "/hello"        16 minutes ago  Exited (0) 16 minutes ago               vigilant_thompson
56698e7fc395    hello-world     "/hello"        20 minutes ago  Exited (0) 20 minutes ago               bold_lumiere
```

```
controlplane $ docker run -i -t -d --name ubuntu1 ubuntu:18.04
b0773f18cc9a99cbfa9c15b8437e8e1c53695d0dd24546b9af5aa00ad827c5b6
controlplane $
```

```
controlplane $ docker ps -a
CONTAINER ID    IMAGE           COMMAND         CREATED            STATUS                      PORTS       NAMES
b0773f18cc9a    ubuntu:18.04    "/bin/bash"     About a minute ago Up About a minute                       ubuntu1
770a31213a91    ubuntu:18.04    "/bin/bash"     4 minutes ago      Exited (0) 4 minutes ago                charming_snyder
aadc91699cb5    hello-world     "/hello"        19 minutes ago     Exited (0) 19 minutes ago               vigilant_thompson
56698e7fc395    hello-world     "/hello"        24 minutes ago     Exited (0) 24 minutes ago               bold_lumiere
controlplane $
```

```
controlplane $ docker exec -it ubuntu1 /bin/bash
root@b0773f18cc9a:/#
```

```
controlplane $ docker exec -it ubuntu1 /bin/bash
root@b0773f18cc9a:/# echo "Hello world from ubuntu1" > hello-world.txt
root@b0773f18cc9a:/# vi hello-world.txt
bash: vi: command not found
root@b0773f18cc9a:/# cat hello-world.txt
Hello world from ubuntu1
root@b0773f18cc9a:/# exit
exit
controlplane $ []
```

```
controlplane $ docker run -i -t -d --name ubuntu2 ubuntu:19.04
896d6c9769bc03cd6fdfb545ad85a970261fc445b67d1fe80bafa4cb23f6573e
controlplane $ []
```

```
controlplane $ docker ps -a
CONTAINER ID    IMAGE           COMMAND        CREATED            STATUS                  PORTS    NAMES
896d6c9769bc    ubuntu:19.04    "/bin/bash"    48 seconds ago     Up 47 seconds                    ubuntu2
b0773f18cc9a    ubuntu:18.04    "/bin/bash"    6 minutes ago      Up 6 minutes                     ubuntu1
770a31213a91    ubuntu:18.04    "/bin/bash"    9 minutes ago      Exited (0) 9 minutes ago         charming_snyder
aadc91699cb5    hello-world     "/hello"       25 minutes ago     Exited (0) 24 minutes ago        vigilant_thompson
56698e7fc395    hello-world     "/hello"       29 minutes ago     Exited (0) 29 minutes ago        bold_lumiere
controlplane $ []
```

```
CONTAINER ID    IMAGE           COMMAND        CREATED            STATUS                 PORTS    NAMES
896d6c9769bc    ubuntu:19.04    "/bin/bash"    About a minute ago Up About a minute               ubuntu2
b0773f18cc9a    ubuntu:18.04    "/bin/bash"    7 minutes ago      Up 7 minutes                    ubuntu1
controlplane $ []
```

```
controlplane $ docker exec -it ubuntu2 /bin/bash
root@896d6c9769bc:/# ls -al
total 56
drwxr-xr-x   1 root root 4096 Feb 22 12:57 .
drwxr-xr-x   1 root root 4096 Feb 22 12:57 ..
-rwxr-xr-x   1 root root    0 Feb 22 12:57 .dockerenv
lrwxrwxrwx   1 root root    7 Jan 14  2020 bin -> usr/bin
drwxr-xr-x   2 root root 4096 Apr 16  2019 boot
drwxr-xr-x   5 root root  360 Feb 22 12:57 dev
drwxr-xr-x   1 root root 4096 Feb 22 12:57 etc
drwxr-xr-x   2 root root 4096 Apr 16  2019 home
lrwxrwxrwx   1 root root    7 Jan 14  2020 lib -> usr/lib
lrwxrwxrwx   1 root root    9 Jan 14  2020 lib32 -> usr/lib32
lrwxrwxrwx   1 root root    9 Jan 14  2020 lib64 -> usr/lib64
lrwxrwxrwx   1 root root   10 Jan 14  2020 libx32 -> usr/libx32
drwxr-xr-x   2 root root 4096 Jan 14  2020 media
drwxr-xr-x   2 root root 4096 Jan 14  2020 mnt
drwxr-xr-x   2 root root 4096 Jan 14  2020 opt
dr-xr-xr-x 229 root root    0 Feb 22 12:57 proc
drwx------   2 root root 4096 Jan 14  2020 root
drwxr-xr-x   1 root root 4096 Jan 16  2020 run
lrwxrwxrwx   1 root root    8 Jan 14  2020 sbin -> usr/sbin
drwxr-xr-x   2 root root 4096 Jan 14  2020 srv
dr-xr-xr-x  13 root root    0 Feb 22 12:57 sys
drwxrwxrwt   2 root root 4096 Jan 14  2020 tmp
drwxr-xr-x   1 root root 4096 Jan 14  2020 usr
drwxr-xr-x   1 root root 4096 Jan 14  2020 var
root@896d6c9769bc:/# echo "Hello-world from ubuntu2!" > hello-world.txt
root@896d6c9769bc:/# cat hello-world.txt
Hello-world from ubuntu2!
root@896d6c9769bc:/# exit
exit
```

```
controlplane $ docker stop ubuntu2
ubuntu2
controlplane $ docker ps
CONTAINER ID    IMAGE           COMMAND         CREATED         STATUS          PORTS       NAMES
b0773f18cc9a    ubuntu:18.04    "/bin/bash"     10 minutes ago  Up 10 minutes               ubuntu1
controlplane $ 
```

```
controlplane $ docker ps -a
CONTAINER ID    IMAGE           COMMAND         CREATED         STATUS                      PORTS       NAMES
896d6c9769bc    ubuntu:19.04    "/bin/bash"     5 minutes ago   Exited (0) 52 seconds ago               ubuntu2
b0773f18cc9a    ubuntu:18.04    "/bin/bash"     11 minutes ago  Up 11 minutes                           ubuntu1
770a31213a91    ubuntu:18.04    "/bin/bash"     14 minutes ago  Exited (0) 14 minutes ago               charming_snyder
aadc91699cb5    hello-world     "/hello"        29 minutes ago  Exited (0) 29 minutes ago               vigilant_thompson
56698e7fc395    hello-world     "/hello"        34 minutes ago  Exited (0) 34 minutes ago               bold_lumiere
controlplane $ 
```

```
controlplane $ docker start ubuntu2
ubuntu2
controlplane $ docker ps
CONTAINER ID    IMAGE           COMMAND         CREATED         STATUS          PORTS       NAMES
896d6c9769bc    ubuntu:19.04    "/bin/bash"     6 minutes ago   Up 5 seconds                ubuntu2
b0773f18cc9a    ubuntu:18.04    "/bin/bash"     12 minutes ago  Up 12 minutes               ubuntu1
controlplane $ 
```

```
controlplane $ docker stop ubuntu1
ubuntu1
controlplane $ docker stop ubuntu2
ubuntu2
```

```
controlplane $ docker rm ubuntu1
ubuntu1
controlplane $ docker rm ubuntu2
ubuntu2
```

```
controlplane $ docker ps -a
CONTAINER ID    IMAGE          COMMAND       CREATED          STATUS                      PORTS       NAMES
770a31213a91    ubuntu:18.04   "/bin/bash"   17 minutes ago   Exited (0) 17 minutes ago               charming_snyder
aadc91699cb5    hello-world    "/hello"      33 minutes ago   Exited (0) 33 minutes ago               vigilant_thompson
56698e7fc395    hello-world    "/hello"      37 minutes ago   Exited (0) 37 minutes ago               bold_lumiere
```

```
controlplane $ docker ps -a
CONTAINER ID    IMAGE          COMMAND       CREATED          STATUS                      PORTS       NAMES
770a31213a91    ubuntu:18.04   "/bin/bash"   17 minutes ago   Exited (0) 17 minutes ago               charming_snyder
aadc91699cb5    hello-world    "/hello"      33 minutes ago   Exited (0) 33 minutes ago               vigilant_thompson
56698e7fc395    hello-world    "/hello"      37 minutes ago   Exited (0) 37 minutes ago               bold_lumiere
controlplane $
controlplane $
controlplane $ docker rm 770a31213a91
770a31213a91
controlplane $ docker rm aadc91699cb5
aadc91699cb5
controlplane $ docker rm 56698e7fc395
56698e7fc395
controlplane $ docker ps -a
CONTAINER ID    IMAGE      COMMAND     CREATED     STATUS      PORTS      NAMES
controlplane $ 
```

```
controlplane $ docker images
REPOSITORY      TAG         IMAGE ID        CREATED         SIZE
ubuntu          18.04       5d2df19066ac    3 weeks ago     63.1MB
hello-world     latest      feb5d9fea6a5    17 months ago   13.3kB
ubuntu          19.04       c88ac1f841b7    3 years ago     70MB
controlplane $ []
```

```
controlplane $ docker rmi feb5d9fea6a5
Untagged: hello-world:latest
Untagged: hello-world@sha256:6e8b6f026e0b9c419ea0fd02d3905dd0952ad1feea67543f525c73a0a790fefb
Deleted: sha256:feb5d9fea6a5e9606aa995e879d862b825965ba48de054caab5ef356dc6b3412
Deleted: sha256:e07ee1baac5fae6a26f30cabfe54a36d3402f96afda318fe0a96cec4ca393359
```

```
controlplane $ docker rmi 5d2df19066ac
Untagged: ubuntu:18.04
Untagged: ubuntu@sha256:a3765b4d74747b5e9bdd03205b3fbc4fa19a02781c185f97f24c8f4f84ed7bbf
Deleted: sha256:5d2df19066aca89df8e5317544a1cb599dc657830184762ff6fdefaaf708db65
Deleted: sha256:475a54c2a93de61ab1a000184b41b5c5370eef3842486f6c185cd9a001ff1a92
controlplane $ docker rmi c88ac1f841b7
Untagged: ubuntu:19.04
Untagged: ubuntu@sha256:2adeae829bf27a3399a0e7db8ae38d5adb89bcaf1bbef378240bc0e6724e8344
Deleted: sha256:c88ac1f841b72add46f5a8b0e77c2ad6864d47e5603686ea64375acd55e27906
Deleted: sha256:abdb7d8268875cb246b29336cdc3e26a820e646829f852fa9c4420466398c1e6
Deleted: sha256:f7968871e4c6f0b9babd441ec117f6d7e43dd6a0ef75459170e84ca66707fe7b
Deleted: sha256:18a328936bc497aecff04c40fa53db558d31faac2f4edce2068d5e219758fbaa
Deleted: sha256:873cbe4bd21ee6f6ea264cfc50c0b35b0c3a00e2be3f82b30884c3b9da5db2db
```

```
controlplane $ docker images
REPOSITORY    TAG          IMAGE ID    CREATED    SIZE
controlplane $ 
```

```
controlplane $ docker system prune -fa
Total reclaimed space: 0B
controlplane $ 
```