

Using username "ubuntu".

Authenticating with public key "docker"

Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-1019-aws x86\_64)

\* Documentation: <https://help.ubuntu.com>

\* Management: <https://landscape.canonical.com>

\* Support: <https://ubuntu.com/advantage>

System information as of Tue Sep 27 09:30:12 UTC 2022

System load: 0.0 Processes: 99

Usage of /: 21.9% of 7.57GB Users logged in: 0

Memory usage: 23% IPv4 address for eth0: 172.31.38.169

Swap usage: 0%

\* Ubuntu Pro delivers the most comprehensive open source security and compliance features.

<https://ubuntu.com/aws/pro>

37 updates can be applied immediately.

21 of these updates are standard security updates.

To see these additional updates run: `apt list --upgradable`

Last login: Tue Sep 27 09:02:47 2022 from 103.149.113.186

ubuntu@ip-172-31-38-169:~\$ sudo apt install apt-transport-https curl gnupg-agent ca-certificates software-properties-common -y

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

ca-certificates is already the newest version (20211016).

ca-certificates set to manually installed.

curl is already the newest version (7.81.0-1ubuntu1.4).

curl set to manually installed.

software-properties-common is already the newest version (0.99.22.3).

software-properties-common set to manually installed.

The following NEW packages will be installed:

apt-transport-https gnupg-agent

0 upgraded, 2 newly installed, 0 to remove and 39 not upgraded.

Need to get 6996 B of archives.

After this operation, 216 kB of additional disk space will be used.

Get:1 <http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/jammy-updates/universe/amd64/apt-transport-https> all 2.4.7 [1512 B]

Get:2 <http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/jammy-updates/universe/amd64/gnupg-agent> all 2.2.27-3ubuntu2.1 [5484 B]

Fetch: 6996 B in 0s (17.4 kB/s)

Selecting previously unselected package apt-transport-https.

(Reading database ... 63673 files and directories currently installed.)

Preparing to unpack .../apt-transport-https\_2.4.7\_all.deb ...

Unpacking apt-transport-https (2.4.7) ...

Selecting previously unselected package gnupg-agent.

Preparing to unpack .../gnupg-agent\_2.2.27-3ubuntu2.1\_all.deb ...

Unpacking gnupg-agent (2.2.27-3ubuntu2.1) ...

Setting up apt-transport-https (2.4.7) ...

Setting up gnupg-agent (2.2.27-3ubuntu2.1) ...

Scanning processes...

Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

```
ubuntu@ip-172-31-38-169:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
```

Warning: apt-key is deprecated. Manage keyring files in trusted.gpg.d instead (see apt-key(8)).

OK

```
ubuntu@ip-172-31-38-169:~$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"
```

Repository: 'deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable'

Description:

Archive for codename: focal components: stable

More info: <https://download.docker.com/linux/ubuntu>

Adding repository.

Press [ENTER] to continue or Ctrl-c to cancel.

Adding deb entry to /etc/apt/sources.list.d/archive\_uri-https\_download\_docker\_com\_linux\_ubuntu-jammy.list

Adding disabled deb-src entry to /etc/apt/sources.list.d/archive\_uri-https\_download\_docker\_com\_linux\_ubuntu-jammy.list

Get:1 <https://download.docker.com/linux/ubuntu> focal InRelease [57.7 kB]

Get:2 <https://download.docker.com/linux/ubuntu> focal/stable amd64 Packages [18.5 kB]

Hit:3 <http://ap-south-1.ec2.archive.ubuntu.com/ubuntu> jammy InRelease

Hit:4 <http://ap-south-1.ec2.archive.ubuntu.com/ubuntu> jammy-updates InRelease

Hit:5 <http://security.ubuntu.com/ubuntu> jammy-security InRelease

Hit:6 <http://ap-south-1.ec2.archive.ubuntu.com/ubuntu> jammy-backports InRelease

Fetchd 76.2 kB in 1s (120 kB/s)

Reading package lists... Done

W: <https://download.docker.com/linux/ubuntu/dists/focal/InRelease>: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.

```
ubuntu@ip-172-31-38-169:~$ sudo apt install docker-ce docker-ce-cli containerd.io -y
```

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following additional packages will be installed:

docker-ce-rootless-extras docker-scan-plugin libltdl7 libslirp0 pigz  
slirp4netns

Suggested packages:

aufs-tools cgroupfs-mount | cgroup-lite

The following NEW packages will be installed:

containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras  
docker-scan-plugin libltdl7 libslirp0 pigz slirp4netns

0 upgraded, 9 newly installed, 0 to remove and 39 not upgraded.

Need to get 102 MB of archives.

After this operation, 398 MB of additional disk space will be used.

Get:1 <https://download.docker.com/linux/ubuntu> focal/stable amd64 containerd.io amd64 1.6.8-1 [28.1 MB]

Get:2 <http://ap-south-1.ec2.archive.ubuntu.com/ubuntu> jammy/universe amd64 pigz amd64 2.6-1 [63.6 kB]

Get:3 <https://download.docker.com/linux/ubuntu> focal/stable amd64 docker-ce-cli amd64 5:20.10.18~3-0~ubuntu-focal

cal [41.5 MB]

Get:4 <http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/jammy/main amd64 libltdl7 amd64 2.4.6-15build2> [39.6 kB]

Get:5 <http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/jammy/main amd64 libslirp0 amd64 4.6.1-1build1> [61.5 kB]

Get:6 <http://ap-south-1.ec2.archive.ubuntu.com/ubuntu/jammy/universe amd64 slirp4netns amd64 1.0.1-2> [28.2 kB]

Get:7 <https://download.docker.com/linux/ubuntu/focal/stable amd64 docker-ce amd64 5:20.10.18~3-0~ubuntu-focal> [20.4 MB]

Get:8 <https://download.docker.com/linux/ubuntu/focal/stable amd64 docker-ce-rootless-extras amd64 5:20.10.18~3-0~ubuntu-focal> [8392 kB]

Get:9 <https://download.docker.com/linux/ubuntu/focal/stable amd64 docker-scan-plugin amd64 0.17.0~ubuntu-focal> [3521 kB]

Fetchd 102 MB in 2s (52.3 MB/s)

Selecting previously unselected package pigz.

(Reading database ... 63681 files and directories currently installed.)

Preparing to unpack .../0-pigz\_2.6-1\_amd64.deb ...

Unpacking pigz (2.6-1) ...

Selecting previously unselected package containerd.io.

Preparing to unpack .../1-containerd.io\_1.6.8-1\_amd64.deb ...

Unpacking containerd.io (1.6.8-1) ...

Selecting previously unselected package docker-ce-cli.

Preparing to unpack .../2-docker-ce-cli\_5%3a20.10.18~3-0~ubuntu-focal\_amd64.deb ...

Unpacking docker-ce-cli (5:20.10.18~3-0~ubuntu-focal) ...

Selecting previously unselected package docker-ce.

Preparing to unpack .../3-docker-ce\_5%3a20.10.18~3-0~ubuntu-focal\_amd64.deb ...

Unpacking docker-ce (5:20.10.18~3-0~ubuntu-focal) ...

Selecting previously unselected package docker-ce-rootless-extras.

Preparing to unpack .../4-docker-ce-rootless-extras\_5%3a20.10.18~3-0~ubuntu-focal\_amd64.deb ...

Unpacking docker-ce-rootless-extras (5:20.10.18~3-0~ubuntu-focal) ...

Selecting previously unselected package docker-scan-plugin.

Preparing to unpack .../5-docker-scan-plugin\_0.17.0~ubuntu-focal\_amd64.deb ...

Unpacking docker-scan-plugin (0.17.0~ubuntu-focal) ...

Selecting previously unselected package libltdl7:amd64.

Preparing to unpack .../6-libltdl7\_2.4.6-15build2\_amd64.deb ...

Unpacking libltdl7:amd64 (2.4.6-15build2) ...

Selecting previously unselected package libslirp0:amd64.

Preparing to unpack .../7-libslirp0\_4.6.1-1build1\_amd64.deb ...

Unpacking libslirp0:amd64 (4.6.1-1build1) ...

Selecting previously unselected package slirp4netns.

Preparing to unpack .../8-slirp4netns\_1.0.1-2\_amd64.deb ...

Unpacking slirp4netns (1.0.1-2) ...

Setting up docker-scan-plugin (0.17.0~ubuntu-focal) ...

Setting up containerd.io (1.6.8-1) ...

Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.

Setting up libltdl7:amd64 (2.4.6-15build2) ...

Setting up docker-ce-cli (5:20.10.18~3-0~ubuntu-focal) ...

Setting up libslirp0:amd64 (4.6.1-1build1) ...

Setting up pigz (2.6-1) ...

Setting up docker-ce-rootless-extras (5:20.10.18~3-0~ubuntu-focal) ...

Setting up slirp4netns (1.0.1-2) ...

Setting up docker-ce (5:20.10.18~3-0~ubuntu-focal) ...

Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.

Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.

Processing triggers for man-db (2.10.2-1) ...

Processing triggers for libc-bin (2.35-0ubuntu3.1) ...

Scanning processes...  
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

```
ubuntu@ip-172-31-38-169:~$ docker -v
```

Docker version 20.10.18, build b40c2f6

```
ubuntu@ip-172-31-38-169:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
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```
ubuntu@ip-172-31-38-169:~$ sudo systemctl status docker
```

● docker.service - Docker Application Container Engine

Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset>

Active: active (running) since Tue 2022-09-27 09:31:59 UTC; 51s ago

TriggeredBy: ● docker.socket

Docs: <https://docs.docker.com>

Main PID: 2966 (dockerd)

Tasks: 7

Memory: 32.3M

CPU: 247ms

CGroup: /system.slice/docker.service

└─2966 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont>

```
Sep 27 09:31:58 ip-172-31-38-169 dockerd[2966]: time="2022-09-27T09:31:58.74983>
```

```
Sep 27 09:31:58 ip-172-31-38-169 dockerd[2966]: time="2022-09-27T09:31:58.75002>
```

```
Sep 27 09:31:58 ip-172-31-38-169 dockerd[2966]: time="2022-09-27T09:31:58.75017>
```

```
Sep 27 09:31:58 ip-172-31-38-169 dockerd[2966]: time="2022-09-27T09:31:58.79578>
```

```
Sep 27 09:31:59 ip-172-31-38-169 dockerd[2966]: time="2022-09-27T09:31:59.05080>
```

```
Sep 27 09:31:59 ip-172-31-38-169 dockerd[2966]: time="2022-09-27T09:31:59.14675>
```

```
Sep 27 09:31:59 ip-172-31-38-169 dockerd[2966]: time="2022-09-27T09:31:59.23481>
```

```
Sep 27 09:31:59 ip-172-31-38-169 dockerd[2966]: time="2022-09-27T09:31:59.23523>
```

```
Sep 27 09:31:59 ip-172-31-38-169 systemd[1]: Started Docker Application Contain>
```

```
Sep 27 09:31:59 ip-172-31-38-169 dockerd[2966]: time="2022-09-27T09:31:59.27411>
```

lines 1-22/22 (END)

```
ubuntu@ip-172-31-38-169:~$ sudo doker pull hello-world
```

sudo: doker: command not found

```
ubuntu@ip-172-31-38-169:~$ sudo docker pull hello-world
```

Using default tag: latest

latest: Pulling from library/hello-world

2db29710123e: Pull complete

Digest: sha256:62af9efd515a25f84961b70f973a798d2eca956b1b2b026d0a4a63a3b0b6a3f2

Status: Downloaded newer image for hello-world:latest

docker.io/library/hello-world:latest

```
ubuntu@ip-172-31-38-169:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
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```
ubuntu@ip-172-31-38-169:~$ sudo docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
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hello-world	latest	feb5d9fea6a5	12 months ago	13.3kB
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```
ubuntu@ip-172-31-38-169:~$ sudo docker nginx
```

```

docker: 'nginx' is not a docker command.
See 'docker --help'
ubuntu@ip-172-31-38-169:~$ sudo docker pull nginx
Using default tag: latest
Error response from daemon: pull access denied for nginx, repository does not exist or may require 'docker login': denied: requested access to the resource is denied
ubuntu@ip-172-31-38-169:~$ sudo docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
31b3f1ad4ce1: Pull complete
fd42b079d0f8: Pull complete
30585fbbbec6: Pull complete
18f4ffdd25f4: Pull complete
9dc932c8fba2: Pull complete
600c24b8ba39: Pull complete
Digest: sha256:0b970013351304af46f322da1263516b188318682b2ab1091862497591189ff1
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
ubuntu@ip-172-31-38-169:~$ sudo docker nginx
docker: 'nginx' is not a docker command.
See 'docker --help'
ubuntu@ip-172-31-38-169:~$ sudo docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
nginx            latest   2d389e545974  2 weeks ago  142MB
hello-world      latest   feb5d9fea6a5  12 months ago  13.3kB
ubuntu@ip-172-31-38-169:~$ sudo docker pull mcr.microsoft.com/dotnet/aspnet
Using default tag: latest
latest: Pulling from dotnet/aspnet
31b3f1ad4ce1: Already exists
7ed415b4bd19: Pull complete
357910a178d4: Pull complete
7b9388913c3c: Pull complete
871ef3419da3: Pull complete
Digest: sha256:99d7ef1ce989ace31dfef826a3e702606f19774665acd1d00cd3d29f3e6e3149
Status: Downloaded newer image for mcr.microsoft.com/dotnet/aspnet:latest
mcr.microsoft.com/dotnet/aspnet:latest
ubuntu@ip-172-31-38-169:~$ sudo docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
mcr.microsoft.com/dotnet/aspnet  latest   fd4816368929  13 days ago  208MB
nginx            latest   2d389e545974  2 weeks ago  142MB
hello-world      latest   feb5d9fea6a5  12 months ago  13.3kB
ubuntu@ip-172-31-38-169:~$ Using username "ubuntu".

```

```

ubuntu@ip-172-31-38-169:~$ sudo docker pull mysql
Using default tag: latest
latest: Pulling from library/mysql
051f419db9dd: Pull complete
7627573fa82a: Pull complete
a44b358d7796: Pull complete
95753aff4b95: Pull complete

```

```
a1fa3bee53f4: Pull complete
f5227e0d612c: Pull complete
b4b4368b1983: Pull complete
f26212810c32: Pull complete
d803d4215f95: Pull complete
d5358a7f7d07: Pull complete
435e8908cd69: Pull complete
Digest: sha256:b9532b1edea72b6cee12d9f5a78547bd3812ea5db842566e17f8b33291ed2921
Status: Downloaded newer image for mysql:latest
docker.io/library/mysql:latest
ubuntu@ip-172-31-38-169:~$ sudo docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
mysql	latest	43fcfca0776d	12 days ago	449MB
mcr.microsoft.com/dotnet/aspnet	latest	fd4816368929	13 days ago	208MB
nginx	latest	2d389e545974	2 weeks ago	142MB
hello-world	latest	feb5d9fea6a5	12 months ago	13.3kB

```
ubuntu@ip-172-31-38-169:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
ubuntu@ip-172-31-38-169:~$ sudo docker run hello-world
```

Hello from Docker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.  
(amd64)
3. The Docker daemon created a new container from that image which runs the executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

```
$ docker run -it ubuntu bash
```

Share images, automate workflows, and more with a free Docker ID:

<https://hub.docker.com/>

For more examples and ideas, visit:

<https://docs.docker.com/get-started/>

```
ubuntu@ip-172-31-38-169:~$ man nginx
```

No manual entry for nginx

```
ubuntu@ip-172-31-38-169:~$ sudo docker run --name webserver -d -p 8080:80 nginx
6efb128e4ee391ed6edb4bd7ac8ad952ee754a6003c024470b46fbdd69d27fba
```

```
ubuntu@ip-172-31-38-169:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
6efb128e4ee3	nginx	"/docker-entrypoint...."	10 seconds ago	Up 9 seconds	0.0.0.0:8080->80/tcp, :::8080->80/tcp	webserver

```
ubuntu@ip-172-31-38-169:~$ sudo docker run --name webserver2 -d -p 808:80 nginx
0ad4258e2591c110c47bd6076e669a0105465fac36ca09e268a01b0ca657cfe4
```

```
ubuntu@ip-172-31-38-169:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
--------------	-------	---------	---------	--------	-------	-------



```
0ad4258e2591 nginx "/docker-entrypoint..." 4 seconds ago Up 3 seconds 0.0.0.0:808->80/tcp, :::808->80/tcp
p webserver2
6efb128e4ee3 nginx "/docker-entrypoint..." 4 minutes ago Up 4 minutes 0.0.0.0:8080->80/tcp, :::8080->80/t
cp webserver
ubuntu@ip-172-31-38-169:~$ sudo docker run --name webserver2 -d -p 8089:80 nginx
docker: Error response from daemon: Conflict. The container name "/webserver2" is already in use by container "0a
d4258e2591c110c47bd6076e669a0105465fac36ca09e268a01b0ca657cfe4". You have to remove (or rename) that co
ntainer to be able to reuse that name.
```

See 'docker run --help'.

```
ubuntu@ip-172-31-38-169:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
0ad4258e2591	nginx	"/docker-entrypoint..."	About a minute ago	Up About a minute	0.0.0.0:808->80/tcp, :::808->80/tcp
6efb128e4ee3	nginx	"/docker-entrypoint..."	5 minutes ago	Up 5 minutes	0.0.0.0:8080->80/tcp, :::8080->80/tcp

```
ubuntu@ip-172-31-38-169:~$ sudo docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
mysql	latest	43fcfca0776d	12 days ago	449MB
mcr.microsoft.com/dotnet/aspnet	latest	fd4816368929	13 days ago	208MB
nginx	latest	2d389e545974	2 weeks ago	142MB
hello-world	latest	feb5d9fea6a5	12 months ago	13.3kB

```
ubuntu@ip-172-31-38-169:~$ tcp webserver
```

Command 'tcp' not found, but there are 28 similar ones.

```
ubuntu@ip-172-31-38-169:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
0ad4258e2591	nginx	"/docker-entrypoint..."	9 minutes ago	Up 9 minutes	0.0.0.0:808->80/tcp, :::808->80/t
6efb128e4ee3	nginx	"/docker-entrypoint..."	13 minutes ago	Up 13 minutes	0.0.0.0:8080->80/tcp, :::8080->80/tcp

```
ubuntu@ip-172-31-38-169:~$ ls
```

```
ubuntu@ip-172-31-38-169:~$ docker run -it --rm -p 8000:80 --name aspnetcore_sample mcr.microsoft.com/dotnet/s
amples:aspnetapp
```

docker: Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/containers/create?name=aspnetcore\_sample": dial unix /var/run/docker.sock: connect: permission denied.

See 'docker run --help'.

```
ubuntu@ip-172-31-38-169:~$ docker run -it -p 8000:80 --name aspnetcore_sample mcr.microsoft.com/dotnet/sampl
es:aspnetapp
```

docker: Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/containers/create?name=aspnetcore\_sample": dial unix /var/run/docker.sock: connect: permission denied.

See 'docker run --help'.

```
ubuntu@ip-172-31-38-169:~$ sudo docker run -d -p 8000:80 --name aspnetcore_sample mcr.microsoft.com/dotnet/s
amples:aspnetapp
```

Unable to find image 'mcr.microsoft.com/dotnet/samples:aspnetapp' locally

aspnetapp: Pulling from dotnet/samples

31b3f1ad4ce1: Already exists

7ed415b4bd19: Already exists

f1df57ed6e1a: Pull complete

d618ecd62aa0: Pull complete

1d834fb288a3: Pull complete

2fac0b3845f0: Pull complete

90f4fcb3f505: Pull complete

Digest: sha256:803f0e48d18cd52aa7b351a5f79f8fd07dfc80130de038510349e5f4d75e2c75

Status: Downloaded newer image for mcr.microsoft.com/dotnet/samples:aspnetapp

115189befeb4e3dea69dd0c6c7a088505e20909f21e9868c813ce07226d90427

ubuntu@ip-172-31-38-169:~\$ **sudo docker ps**

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
115189befeb4	mcr.microsoft.com/dotnet/samples:aspnetapp	"dotnet aspnetapp.dll"	5 seconds ago	Up	4 seconds
0.0.0.0:8000->80/tcp, :::8000->80/tcp	aspnetcore_sample				
0ad4258e2591	nginx	"/docker-entrypoint...."	19 minutes ago	Up	19 minutes
8->80/tcp, :::808->80/tcp	webserver2				
6efb128e4ee3	nginx	"/docker-entrypoint...."	23 minutes ago	Up	23 minutes
80->80/tcp, :::8080->80/tcp	webserver				

ubuntu@ip-172-31-38-169:~\$

ubuntu@ip-172-31-38-169:~\$ **history**

- 1 sudo apt update
- 2 sudo docker -v
- 3 sudo apt install docker
- 4 sudo systemctl status docker
- 5 systemctl
- 6 sudo apt install apt-transport-https curl gnupg-agent ca-certificates software-properties-common -y
- 7 curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
- 8 sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"
- 9 sudo apt install docker-ce docker-ce-cli containerd.io -y
- 10 docker -v
- 11 sudo docker ps
- 12 sudo systemctl status docker
- 13 sudo docker pull hello-world
- 14 sudo docker pull hello-world
- 15 sudo docker ps
- 16 sudo docker images
- 17 sudo docker nginx
- 18 sudo docker pull nginx
- 19 sudo docker pull nginx
- 20 sudo docker nginx
- 21 sudo docker images
- 22 sudo docker pull mcr.microsoft.com/dotnet/aspnet
- 23 sudo docker images
- 24 sudo docker pull mysql
- 25 sudo docker images
- 26 sudo docker ps
- 27 sudo docker run hello-world
- 28 man nginx
- 29 sudo docker run --name webserver -d -p 8080:80 nginx
- 30 sudo docker ps
- 31 sudo docker run --name webserver2 -d -p 808:80 nginx
- 32 sudo docker ps
- 33 sudo docker run --name webserver2 -d -p 8089:80 nginx
- 34 sudo docker ps



```
35 sudo docker images
36 tcp webserver
37 sudo docker ps
38 ls
39 docker run -it --rm -p 8000:80 --name aspnetcore_sample mcr.microsoft.com/dotnet/samples:aspnetapp
40 docker run -it -p 8000:80 --name aspnetcore_sample mcr.microsoft.com/dotnet/samples:aspnetapp
41 sudo docker run -d -p 8000:80 --name aspnetcore_sample mcr.microsoft.com/dotnet/samples:aspnetapp
42 sudo docker ps
43 history
ubuntu@ip-172-31-38-169:~$
```

```
ubuntu@ip-172-31-38-169:~$ sudo docker run -d -p 8888:80 --name aspnetcore_sample mcr.microsoft.com/dotnet/samples:aspnetapp
```

docker: Error response from daemon: Conflict. The container name "/aspnetcore\_sample" is already in use by container "115189befeb4e3dea69dd0c6c7a088505e20909f21e9868c813ce07226d90427". You have to remove (or rename) that container to be able to reuse that name.

See 'docker run --help'.

```
ubuntu@ip-172-31-38-169:~$ sudo docker run -d -p 8888:80 --name aspnetcore_sample2 mcr.microsoft.com/dotnet/samples:aspnetapp
```

```
4684c2b11e144bee468542a05f834acfb86a045c9cfa9b6e288d16c2d1986d39
```

```
ubuntu@ip-172-31-38-169:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
4684c2b11e14	mcr.microsoft.com/dotnet/samples:aspnetapp	"dotnet aspnetapp.dll"	34 seconds ago	Up 33 seconds	0.0.0.0:8888->80/tcp, :::8888->80/tcp
115189befeb4	mcr.microsoft.com/dotnet/samples:aspnetapp	"dotnet aspnetapp.dll"	7 minutes ago	Up 7 minutes	0.0.0.0:8000->80/tcp, :::8000->80/tcp
0ad4258e2591	nginx	"/docker-entrypoint..."	27 minutes ago	Up 27 minutes	0.0.0.0:808->80/tcp, :::808->80/tcp
6efb128e4ee3	nginx	"/docker-entrypoint..."	31 minutes ago	Up 31 minutes	0.0.0.0:8080->80/tcp, :::8080->80/tcp

```
ubuntu@ip-172-31-38-169:~$ sudo docker stop 4684c2b11e14
```

```
4684c2b11e14
```

```
ubuntu@ip-172-31-38-169:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
115189befeb4	mcr.microsoft.com/dotnet/samples:aspnetapp	"dotnet aspnetapp.dll"	10 minutes ago	Up 10 minutes	0.0.0.0:8000->80/tcp, :::8000->80/tcp
0ad4258e2591	nginx	"/docker-entrypoint..."	30 minutes ago	Up 30 minutes	0.0.0.0:808->80/tcp, :::808->80/tcp
6efb128e4ee3	nginx	"/docker-entrypoint..."	34 minutes ago	Up 34 minutes	0.0.0.0:8080->80/tcp, :::8080->80/tcp

```
ubuntu@ip-172-31-38-169:~$ sudo docker start 4684c
```

```
4684c
```

```
ubuntu@ip-172-31-38-169:~$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
4684c2b11e14	mcr.microsoft.com/dotnet/samples:aspnetapp	"dotnet aspnetapp.dll"	4 minutes ago	Up 38 seconds	

```
ds 0.0.0.0:8888->80/tcp, :::8888->80/tcp aspnetcore_sample2
115189befeb4 mcr.microsoft.com/dotnet/samples:aspnetapp "dotnet aspnetapp.dll" 12 minutes ago Up 11 minu
tes 0.0.0.0:8000->80/tcp, :::8000->80/tcp aspnetcore_sample
0ad4258e2591 nginx "/docker-entrypoint...." 31 minutes ago Up 31 minutes 0.0.0.0:80
8->80/tcp, :::808->80/tcp webserver2
6efb128e4ee3 nginx "/docker-entrypoint...." 35 minutes ago Up 35 minutes 0.0.0.0:80
80->80/tcp, :::8080->80/tcp webserver
ubuntu@ip-172-31-38-169:~$
```