

```
Last login: Sun Feb 22 21:35:03 on ttys001
aayushkumar@aayushs-MacBook-Air ~ % ssh -o ServerAliveInterval=60 -i ~/Downloads/docking_key.pem ubuntu@ec2-3-25-84-141.ap-southeast-2.compute.amazonaws.com -yes
The authenticity of host 'ec2-3-25-84-141.ap-southeast-2.compute.amazonaws.com (3.25.84.141)' can't be established.
ED25519 key fingerprint is: SHA256:02AYIr9HhcJbwueo87QlJMweutKQDmOvgQU9jCirjQ
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1018-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

System information as of Sat Feb 28 13:03:31 UTC 2026

System load:  0.0           Temperature:  ~273.1 C
Usage of /:   9.7% of 18.3GB Processes:    110
Memory usage: 11%          Users logged in: 0
Swap usage:   0%           IPv4 address for ens5: 172.31.14.175

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-14-175:~$ ls
ubuntu@ip-172-31-14-175:~$ free -h
              total        used        free      shared  buff/cache   available
Mem:          1.9Gi        359Mi      1.3Gi       2.7Mi       410Mi       1.5Gi
Swap:          0B           0B           0B

ubuntu@ip-172-31-14-175:~$ sudo apt update
Hit:1 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:5 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:6 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:7 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:8 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:9 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:10 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:11 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:12 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:13 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1800 kB]
Get:14 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [331 kB]
Get:15 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]
Get:16 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [16.5 kB]
Get:17 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1558 kB]
Get:18 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [316 kB]
Get:19 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [386 kB]
Get:20 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [32.7 kB]
Get:21 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [2735 kB]
Get:22 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [630 kB]
Get:23 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:24 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [556 B]
Get:25 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [32.1 kB]
Get:26 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [7044 B]
Get:27 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:28 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [496 B]
Get:29 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Packages [40.4 kB]
Get:30 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main Translation-en [9208 B]
Get:31 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7284 B]
Get:32 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [368 B]
Get:33 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [29.5 kB]
Get:34 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [17.9 kB]
Get:35 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [10.5 kB]
Get:36 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1444 B]
Get:37 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]
Get:38 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:39 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:40 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:41 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1494 kB]
Get:42 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [240 kB]
Get:43 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [21.5 kB]
Get:44 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [9932 B]
Get:45 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [961 kB]
Get:46 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [218 kB]
Get:47 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [74.2 kB]
Get:48 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [20.5 kB]
Get:49 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [2568 kB]
Get:50 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [596 kB]
Get:51 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:52 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [536 B]
Get:53 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [28.8 kB]
Get:54 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [6732 B]
Get:55 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:56 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [396 B]
Fetched 40.4 MB in 7s (6117 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
99 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-14-175:~$ sudo apt install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroups-mount | cgroup-lite debotstrap docker-buildx docker-compose-v2 docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan
0 upgraded, 8 newly installed, 0 to remove and 99 not upgraded.
Need to get 76.1 MB of archives.
After this operation, 288 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

```
Get:1 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:2 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble/main amd64 bridge-utils amd64 1.7.1-1ubuntu2 [33.9 kB]
Get:3 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 runc amd64 1.3.3-0ubuntu1~24.04.3 [8815 kB]
Get:4 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 containerd amd64 1.7.28-0ubuntu1~24.04.2 [38.4 MB]
Get:5 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 dns-root-data all 2024071801-ubuntu0.24.04.1 [5918 B]
Get:6 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 dnsmasq-base amd64 2.90-2ubuntu0.1 [376 kB]
Get:7 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 docker.io amd64 28.2.2-0ubuntu1~24.04.1 [28.3 MB]
Get:8 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 ubuntu-fan all 0.12.16+24.04.1 [34.2 kB]
Fetched 76.1 MB in 1s (78.8 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 71752 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.8-1_amd64.deb ...
Unpacking pigz (2.8-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7.1-1ubuntu2_amd64.deb ...
Unpacking bridge-utils (1.7.1-1ubuntu2) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc_1.3.3-0ubuntu1~24.04.3_amd64.deb ...
Unpacking runc (1.3.3-0ubuntu1~24.04.3) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.28-0ubuntu1~24.04.2_amd64.deb ...
Unpacking containerd (1.7.28-0ubuntu1~24.04.2) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2024071801-ubuntu0.24.04.1_all.deb ...
Unpacking dns-root-data (2024071801-ubuntu0.24.04.1) ...
Selecting previously unselected package dnsmasq-base.
Preparing to unpack .../5-dnsmasq-base_2.90-2ubuntu0.1_amd64.deb ...
Unpacking dnsmasq-base (2.90-2ubuntu0.1) ...
Selecting previously unselected package docker.io.
Preparing to unpack .../6-docker.io_28.2.2-0ubuntu1~24.04.1_amd64.deb ...
Unpacking docker.io (28.2.2-0ubuntu1~24.04.1) ...
Selecting previously unselected package ubuntu-fan.
Preparing to unpack .../7-ubuntu-fan_0.12.16+24.04.1_all.deb ...
Unpacking ubuntu-fan (0.12.16+24.04.1) ...
Setting up dnsmasq-base (2.90-2ubuntu0.1) ...
Setting up runc (1.3.3-0ubuntu1~24.04.3) ...
Setting up dns-root-data (2024071801-ubuntu0.24.04.1) ...
Setting up bridge-utils (1.7.1-1ubuntu2) ...
Setting up pigz (2.8-1) ...
Setting up containerd (1.7.28-0ubuntu1~24.04.2) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /usr/lib/systemd/system/containerd.service.
Setting up ubuntu-fan (0.12.16+24.04.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /usr/lib/systemd/system/ubuntu-fan.service.
Setting up docker.io (28.2.2-0ubuntu1~24.04.1) ...
info: Selecting GID from range 100 to 999 ...
info: Adding group 'docker' (GID 113) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Processing triggers for dbus (1.14.10-4ubuntu4.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
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-172-31-14-175:~\$ systemctl is-enabled docker

Command 'systemctl' not found, did you mean:

command 'systemctl' from deb systemd (255.4-1ubuntu8.12)

command 'systemctl' from deb systemctl (1.4.4181-1.1)

Try: sudo apt install <deb name>

ubuntu@ip-172-31-14-175:~\$ systemctl is-enabled docker

enabled

ubuntu@ip-172-31-14-175:~\$ systemctl status docker

● docker.service - Docker Application Container Engine

Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)

Active: active (running) since Sat 2026-02-28 13:46:14 UTC; 1min 33s ago

TriggeredBy: ● docker.socket

Docs: https://docs.docker.com

Main PID: 2941 (dockerd)

Tasks: 9

Memory: 21.7M (peak: 22.0M)

CPU: 361ms

CGroup: /system.slice/docker.service

└─2941 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Feb 28 13:46:13 ip-172-31-14-175 dockerd[2941]: time="2026-02-28T13:46:13.935757364Z" level=info msg="Loading containers: start."

Feb 28 13:46:14 ip-172-31-14-175 dockerd[2941]: time="2026-02-28T13:46:14.259668007Z" level=info msg="Loading containers: done."

Feb 28 13:46:14 ip-172-31-14-175 dockerd[2941]: time="2026-02-28T13:46:14.286897361Z" level=info msg="Docker daemon" commit="28.2.2-0ubuntu1~24.04.1" containerd-snapshotter=false

Feb 28 13:46:14 ip-172-31-14-175 dockerd[2941]: time="2026-02-28T13:46:14.287023849Z" level=info msg="Initializing buildkit"

Feb 28 13:46:14 ip-172-31-14-175 dockerd[2941]: time="2026-02-28T13:46:14.297118281Z" level=warning msg="CDI setup error /etc/cdi: failed to monitor for changes: no such file or directory"

Feb 28 13:46:14 ip-172-31-14-175 dockerd[2941]: time="2026-02-28T13:46:14.297148750Z" level=warning msg="CDI setup error /var/run/cdi: failed to monitor for changes: no such file or directory"

Feb 28 13:46:14 ip-172-31-14-175 dockerd[2941]: time="2026-02-28T13:46:14.316819600Z" level=info msg="Completed buildkit initialization"

Feb 28 13:46:14 ip-172-31-14-175 dockerd[2941]: time="2026-02-28T13:46:14.326148354Z" level=info msg="Daemon has completed initialization"

Feb 28 13:46:14 ip-172-31-14-175 systemd[1]: Started docker.service - Docker Application Container Engine.

Feb 28 13:46:14 ip-172-31-14-175 dockerd[2941]: time="2026-02-28T13:46:14.326912046Z" level=info msg="API listen on /run/docker.sock"

ubuntu@ip-172-31-14-175:~\$ ps

PID TTY TIME CMD

2041 pts/0 00:00:00 bash

3217 pts/0 00:00:00 ps

ubuntu@ip-172-31-14-175:~\$ docker ps

permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.50/containers/json": dial unix /var/run/docker.sock: connect: permission denied

ubuntu@ip-172-31-14-175:~\$ sudo usermod -aG docker ubuntu

ubuntu@ip-172-31-14-175:~\$ docker ps

permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.50/containers/json": dial unix /var/run/docker.sock: connect: permission denied

ubuntu@ip-172-31-14-175:~\$ cat /etc/groups

cat: /etc/groups: No such file or directory

ubuntu@ip-172-31-14-175:~\$ groups

ubuntu adm cdrom sudo dip lxd

ubuntu@ip-172-31-14-175:~\$ group

Command 'group' not found, did you mean:

command 'groups' from deb coreutils (9.4-3ubuntu6.1)

command 'grop' from deb gropp (2:0.10-1.2)

Try: sudo apt install <deb name>

ubuntu@ip-172-31-14-175:~\$ cat /etc/group

daemon:x:1:

bin:x:2:

sys:x:3:

adm:x:4:syslog,ubuntu

tty:x:5:

disk:x:6:

lp:x:7:

```
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:ubuntu
floppy:x:25:
tape:x:26:
sudo:x:27:ubuntu
audio:x:29:
dip:x:30:ubuntu
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
shadow:x:42:
utmp:x:43:
video:x:44:
sas1:x:45:
plugdev:x:46:
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:999:
systemd-network:x:998:
crontab:x:997:
systemd-timesync:x:996:
input:x:995:
sgx:x:994:
kvm:x:993:
render:x:992:
messagebus:x:101:
syslog:x:102:
systemd-resolve:x:991:
uuid:x:103:
tss:x:104:
lxd:x:105:ubuntu
_ssh:x:106:
rdma:x:107:
tcpdump:x:108:
landscape:x:109:
fwupd-refresh:x:990:
polkitd:x:989:
admin:x:110:
netdev:x:111:
_chrony:x:112:
ubuntu:x:1000:
docker:x:113:ubuntu
ubuntu@ip-172-31-14-175:~$ docker ps
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.50/containers/json": dial unix /v
ar/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-14-175:~$ newgrp docker
ubuntu@ip-172-31-14-175:~$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED    STATUS    PORTS    NAMES
ubuntu@ip-172-31-14-175:~$ docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
17eec7bbc9d7: Pull complete
Digest: sha256:ef54e839ef541993b4e87f25e752f7cf4238fa55f017957c2eb44077083d7a6a
Status: Downloaded newer image for hello-world:latest

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-172-31-14-175:~$ docker run -d -p 80:80 nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
206356c42440: Pull complete
b47f187216b6: Pull complete
1ad233904a11: Pull complete
eedda9fd8786: Pull complete
35ff83c394d6: Pull complete
17d0911eaf62: Pull complete
df0b66c867e4: Pull complete
Digest: sha256:0236ee02dcbce00b9bd83e0f5fbc51069e7e1161bd59d99885b3ae1734f3392e
Status: Downloaded newer image for nginx:latest
17a0267157b1dfbcf3f42ee868cd668c86ebf252866114f2d1cf95c9ab32900c
ubuntu@ip-172-31-14-175:~$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED    STATUS    PORTS    NAMES
17a0267157b1   nginx         "/docker-entrypoint..." 26 seconds ago    Up 25 seconds    0.0.0.0:80->80/tcp, [::]:80->80/tcp    youthful_montalcini
ubuntu@ip-172-31-14-175:~$ docker run -itd ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
01d7766a2e4a: Pull complete
Digest: sha256:d1e2e92c075e5ca139d51a140fff46f84315c0fdce203eab2807c7e495eff4f9
Status: Downloaded newer image for ubuntu:latest
90dc79f8181e138609a143a685c898255f9b53aaa4d856a61b6c639b41fffe75
ubuntu@ip-172-31-14-175:~$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED    STATUS    PORTS    NAMES
90dc79f8181e   ubuntu       "/bin/bash"             29 seconds ago    Up 28 seconds    0.0.0.0:80->80/tcp, [::]:80->80/tcp    sleepy_mirzakhani
17a0267157b1   nginx         "/docker-entrypoint..." 47 minutes ago    Up 47 minutes    0.0.0.0:80->80/tcp, [::]:80->80/tcp    youthful_montalcini
ubuntu@ip-172-31-14-175:~$ docker exec -it 90dc79f8181e bash
root@90dc79f8181e:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run/sbin srv sys usr var
root@90dc79f8181e:/# exit
exit
ubuntu@ip-172-31-14-175:~$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
90dc79f8181e	ubuntu	"/bin/bash"	2 minutes ago	Up 2 minutes		sleepy_mirzakhani
17a0267157b1	nginx	"/docker-entrypoint..."	49 minutes ago	Up 49 minutes	0.0.0.0:80->80/tcp, [::]:80->80/tcp	youthful_montalcini

```

ubuntu@ip-172-31-14-175:~$ docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
90dc79f8181e   ubuntu   "/bin/bash"             2 minutes ago Up 2 minutes                               sleepy_mirzakhani
17a0267157b1   nginx    "/docker-entrypoint..." 49 minutes ago Up 49 minutes   0.0.0.0:80->80/tcp, [::]:80->80/tcp youthful_montalcini
d2e008998ceb   hello-world "/hello"                About an hour ago Exited (0) About an hour ago trusting_dubinsky

ubuntu@ip-172-31-14-175:~$ docker stop 90dc79f8181e
90dc79f8181e
ubuntu@ip-172-31-14-175:~$ docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
90dc79f8181e   ubuntu   "/bin/bash"             3 minutes ago Exited (137) 10 seconds ago           sleepy_mirzakhani
17a0267157b1   nginx    "/docker-entrypoint..." 50 minutes ago Up 50 minutes   0.0.0.0:80->80/tcp, [::]:80->80/tcp youthful_montalcini
d2e008998ceb   hello-world "/hello"                About an hour ago Exited (0) About an hour ago trusting_dubinsky

ubuntu@ip-172-31-14-175:~$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
17a0267157b1   nginx    "/docker-entrypoint..." 50 minutes ago Up 50 minutes   0.0.0.0:80->80/tcp, [::]:80->80/tcp youthful_montalcini

ubuntu@ip-172-31-14-175:~$ docker rm 90dc79f8181e
90dc79f8181e
ubuntu@ip-172-31-14-175:~$ docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
17a0267157b1   nginx    "/docker-entrypoint..." 51 minutes ago Up 51 minutes   0.0.0.0:80->80/tcp, [::]:80->80/tcp youthful_montalcini
d2e008998ceb   hello-world "/hello"                About an hour ago Exited (0) About an hour ago trusting_dubinsky

ubuntu@ip-172-31-14-175:~$ docker run -d --name mysql-demo -e MYSQL_ROOT_PASSWORD=test@123 mysql
Unable to find image 'mysql:latest' locally
latest: Pulling from library/mysql
74a8e4bbd9fe: Pull complete
357926362d31: Pull complete
f3702ac323ca: Pull complete
658630c937c6: Pull complete
ab1b8ea72826: Pull complete
61941d436e88: Pull complete
c89a19cdad3b: Pull complete
00af5f73db53: Pull complete
8314ff001dec: Pull complete
4ac29f1008ff: Pull complete
Digest: sha256:e5dc14f6e01c3e577e669337d2855c6d1561b30d8ef2c592e63e4e8a9a5265a
Status: Downloaded newer image for mysql:latest
094c2ef9d459d28ca7e17a844192a1dbbd54fa1c745baba0babc9e20f7ad35ad

ubuntu@ip-172-31-14-175:~$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
094c2ef9d459   mysql    "docker-entrypoint.s..." 8 seconds ago Up 7 seconds    3306/tcp, 33060/tcp           mysql-demo
17a0267157b1   nginx    "/docker-entrypoint..." 55 minutes ago Up 55 minutes   0.0.0.0:80->80/tcp, [::]:80->80/tcp youthful_montalcini

ubuntu@ip-172-31-14-175:~$ docker exec -it 094c2ef9d459 bash
bash-5.1# ROOT
bash: ROOT: command not found
bash-5.1# mysql
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: NO)
bash-5.1# login
bash: login: command not found
bash-5.1# mysql -u
mysql: [ERROR] mysql: option '-u' requires an argument.
bash-5.1# mysql -u ROOT
ERROR 1045 (28000): Access denied for user 'ROOT'@'localhost' (using password: NO)
bash-5.1# mysql -u ROOT -p
Enter password:
ERROR 1045 (28000): Access denied for user 'ROOT'@'localhost' (using password: YES)
bash-5.1# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 9.6.0 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```

```

mysql> show databases
-> ^C
mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.005 sec)

mysql> exit
Bye
bash-5.1# exit
exit
ubuntu@ip-172-31-14-175:~$ docker log
docker: unknown command: docker log

Run 'docker --help' for more information
ubuntu@ip-172-31-14-175:~$ docker logs
docker: 'docker logs' requires 1 argument

Usage: docker logs [OPTIONS] CONTAINER

Run 'docker logs --help' for more information
ubuntu@ip-172-31-14-175:~$ docker log 094c2ef9d459
docker: unknown command: docker log

Run 'docker --help' for more information
ubuntu@ip-172-31-14-175:~$ docker logs 094c2ef9d459
2026-02-28 15:13:48+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 9.6.0-1.el9 started.
2026-02-28 15:13:48+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2026-02-28 15:13:48+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 9.6.0-1.el9 started.
2026-02-28 15:13:48+00:00 [Note] [Entrypoint]: Initializing database files
2026-02-28T15:13:48.935795Z 0 [System] [MY-015017] [Server] MySQL Server Initialization - start.
2026-02-28T15:13:48.937553Z 0 [System] [MY-013169] [Server] /usr/sbin/mysqld (mysqld 9.6.0) initializing of server in progress as process 79
2026-02-28T15:13:48.946681Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2026-02-28T15:13:49.618201Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2026-02-28T15:13:51.238799Z 6 [Warning] [MY-010453] [Server] root@localhost is created with an empty password ! Please consider switching off the --initialize-insecure option.
2026-02-28T15:13:53.617920Z 0 [System] [MY-015018] [Server] MySQL Server Initialization - end.
2026-02-28 15:13:53+00:00 [Note] [Entrypoint]: Database files initialized
2026-02-28 15:13:53+00:00 [Note] [Entrypoint]: Starting temporary server
2026-02-28T15:13:53.735476Z 0 [System] [MY-015015] [Server] MySQL Server - start.
2026-02-28T15:13:54.039438Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 9.6.0) starting as process 116
2026-02-28T15:13:54.039444Z 0 [System] [MY-015590] [Server] MySQL Server has access to 2 logical CPUs.
2026-02-28T15:13:54.039478Z 0 [System] [MY-015590] [Server] MySQL Server has access to 2003529728 bytes of physical memory.
2026-02-28T15:13:54.074591Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2026-02-28T15:13:54.702763Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.

```

```
2026-02-28T15:13:55.191985Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.
2026-02-28T15:13:55.192038Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
2026-02-28T15:13:55.196744Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a different directory.
2026-02-28T15:13:55.240800Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Socket: /var/run/mysqld/mysqlx.sock
2026-02-28T15:13:55.241173Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '9.6.0' socket: '/var/run/mysqld/mysqld.sock' port: 0 MySQL Community Server - GPL.
2026-02-28 15:13:55+00:00 [Note] [Entrypoint]: Temporary server started.
'/var/lib/mysql/mysql.sock' -> '/var/run/mysqld/mysqld.sock'
Warning: Unable to load '/usr/share/zoneinfo/iso3166.tab' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/leap-seconds.list' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/leapseconds' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/tzdata.zi' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/zone.tab' as time zone. Skipping it.
Warning: Unable to load '/usr/share/zoneinfo/zone1970.tab' as time zone. Skipping it.

2026-02-28 15:13:57+00:00 [Note] [Entrypoint]: Stopping temporary server
2026-02-28T15:13:57.543174Z 11 [System] [MY-013172] [Server] Received SHUTDOWN from user root. Shutting down mysqld (Version: 9.6.0).
2026-02-28T15:13:58.540234Z 0 [System] [MY-010910] [Server] /usr/sbin/mysqld: Shutdown complete (mysqld 9.6.0) MySQL Community Server - GPL.
2026-02-28T15:13:58.540261Z 0 [System] [MY-015016] [Server] MySQL Server - end.
2026-02-28 15:13:58+00:00 [Note] [Entrypoint]: Temporary server stopped

2026-02-28 15:13:58+00:00 [Note] [Entrypoint]: MySQL init process done. Ready for start up.

2026-02-28T15:13:58.575165Z 0 [System] [MY-015015] [Server] MySQL Server - start.
2026-02-28T15:13:58.866564Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 9.6.0) starting as process 1
2026-02-28T15:13:58.866580Z 0 [System] [MY-015590] [Server] MySQL Server has access to 2 logical CPUs.
2026-02-28T15:13:58.866591Z 0 [System] [MY-015590] [Server] MySQL Server has access to 2003529728 bytes of physical memory.
2026-02-28T15:13:58.873384Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
2026-02-28T15:13:59.426572Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
2026-02-28T15:13:59.812809Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.
2026-02-28T15:13:59.812857Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
2026-02-28T15:13:59.817660Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a different directory.
2026-02-28T15:13:59.866429Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Bind-address: '::' port: 33060, socket: /var/run/mysqld/mysqlx.sock
2026-02-28T15:13:59.866568Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '9.6.0' socket: '/var/run/mysqld/mysqld.sock' port: 3306 MySQL Community Server - GPL.
ubuntu@ip-172-31-14-175:~$ Connection to ec2-3-25-84-141.ap-southeast-2.compute.amazonaws.com closed by remote host.
Connection to ec2-3-25-84-141.ap-southeast-2.compute.amazonaws.com closed.
aayushkumar@aayushs-MacBook-Air ~ %
```