

# Install docker on EC2 and explore the docker commands (docker images, containers, volumes, network)

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aws
Search [Alt+S]
Asia Pacific (Mumbai) DEVOPS

Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

Last login: Thu Feb 20 08:23:21 2025 from 19.239.177.4
ec2-user@ip-172-31-12-251 ~$ ls
bash: ls: command not found
ec2-user@ip-172-31-12-251 ~$ ls
install
ec2-user@ip-172-31-12-251 ~$ lsb_release -a
lsb_release: command not found
ec2-user@ip-172-31-12-251 ~$ sudo apt-get install docker
Error: This command has to be run with superuser privileges (under the root user on most systems).
ec2-user@ip-172-31-12-251 ~$ sudo yum install docker.io
Last metadata expiration check: 0:52:51 ago on Thu Feb 20 08:23:52 2025.
No match for argument: docker.io
Error: Unable to find a match: docker.io
ec2-user@ip-172-31-12-251 ~$ sudo yum update
Last metadata expiration check: 0:53:12 ago on Thu Feb 20 08:23:52 2025.
Dependencies resolved.
Nothing to do.
Complete!
ec2-user@ip-172-31-12-251 ~$ sudo yum upgrade
Last metadata expiration check: 0:53:28 ago on Thu Feb 20 08:23:52 2025.
Dependencies resolved.
Nothing to do.
Complete!
ec2-user@ip-172-31-12-251 ~$ sudo yum install docker
Last metadata expiration check: 0:53:38 ago on Thu Feb 20 08:23:52 2025.
Dependencies resolved.

Package Architecture Version Repository Size
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1-0784cdaae204ed04 (numba)
Public IP: 13.200.5.222 Private IP: 172.31.12.251

CloudShell Feedback
32°C Sunny
Search
14:59 20-02-2025
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aws
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c558df217949: Pull complete
976e8f6b25dd: Pull complete
6c78b0ba1a32: Pull complete
84cade77a831: Pull complete
Digest: sha256:91734281c0ebfc6f1aea979cfeed5079cfe786228a71cc6f1f46a228cde6e34
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
[ec2-user@ip-172-31-12-251 ~]$ sudo docker images ^C
[ec2-user@ip-172-31-12-251 ~]$ ^C
[ec2-user@ip-172-31-12-251 ~]$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
nginx latest 97662d24417b 2 weeks ago 192MB
[ec2-user@ip-172-31-12-251 ~]$ sudo docker run-itd
docker: 'run-itd' is not a docker command.
See 'docker --help'
[ec2-user@ip-172-31-12-251 ~]$ sudo docker run -itd
'docker run' requires at least 1 argument.
See 'docker run --help'.

Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Create and run a new container from an image
[ec2-user@ip-172-31-12-251 ~]$ sudo docker run -itd -p
flag needs an argument: 'p' in -p
See 'docker run --help'.
[ec2-user@ip-172-31-12-251 ~]$ sudo docker run -itd -p 90:80 nginx
Unable to find image 'nginx:latest' locally
docker: 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.
See 'docker run --help'.
[ec2-user@ip-172-31-12-251 ~]$ sudo docker run -itd -p 90:80 nginx
e7fae1923b706dea0a7b2c10a40cFbd1ef124e585156cb4a68132a6172743864
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```
[ec2-user@ip-172-31-12-251 ~]$ sudo systemctl start docker
[ec2-user@ip-172-31-12-251 ~]$ sudo systemctl enable docker
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /usr/lib/systemd/system/docker.service.
[ec2-user@ip-172-31-12-251 ~]$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
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i-0784cadaae204ed04 (mumbai)

Public IP: 13.200.5.222 Private IP: 172.31.12.251

## Welcome to nginx!

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 [nginx.org](https://nginx.org).  
Commercial support is available at [nginx.com](https://nginx.com).

*Thank you for using nginx.*