

Docker Task

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

News Nation: Latest Hindi

GUVI

Docker Task - Google Doc

Launch an instance | EC2

Instance details | EC2 | us-east-2.console.aws.amazon.com/ec2/home

1 mark ah 5 mark ah soli

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Amazon.in

Flipkart

Netflix

Inbox (1,382) - jun...

ZEN

Instance details | ...

MyHCLTech - Home

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[Alt+S]

United States (DHo)

Account, tasks (01:53:18:16:4078)

Account tasks

EC2

Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

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Capacity Reservations

Capacity Manager

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AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Load Balancing

Load Balancers

Instance summary for i-0348a7d913ac7b094 (Docker-task-1)

Updated less than a minute ago

Instance ID

i-0348a7d913ac7b094

IPv6 address

-

Hostname type

IP name: ip-172-31-12-192.us-east-2.compute.internal

Answer private resource DNS name

IPv4 (A)

Auto-assigned IP address

3.147.63.195 [Public IP]

IAM Role

-

IMDSv2

Required

Operator

-

Public IPv4 address

3.147.63.195 | open address

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-31-12-192.us-east-2.compute.internal

Instance type

t3.micro

VPC ID

vpc-062b2ff9a7ed43917

Subnet ID

subnet-082002ab69b9bf9f8

Instance ARN

arn:aws:ec2:us-east-2:913218764078:instance/i-0348a7d913ac7b094

Private IPv4 addresses

172.31.12.192

Public DNS

ec2-3-147-63-195.us-east-2.compute.amazonaws.com | open address

Elastic IP addresses

-

AWS Compute Optimizer finding

Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name

-

Managed

false

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance details

AMI ID

ami-06e3c045d79f65d9

AMI name

-

Stop protection

Disabled

Monitoring

disabled

Allowed image

-

Launch time

Thu Jan 22 2026 18:07:07 GMT+0530 (India Standard Time) (less than a minute)

Platform details

Linux/UNIX

Termination protection

Disabled

AMI location

-

CloudShell

Feedback

Console Mobile App

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```

junaid@LAPTOP-GU5B805P: ~
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Junaid> wsl
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid$ ssh -i test1.pem ubuntu@3.147.63.195
Warning: Identity file test1.pem not accessible: No such file or directory.
The authenticity of host '3.147.63.195 (3.147.63.195)' can't be established.
ED25519 key fingerprint is SHA256:aFrolfjTyLmsseyW6mIurEGbwDJADuKsTMxYzp2yzJ4.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.147.63.195' (ED25519) to the list of known hosts.
ubuntu@3.147.63.195: Permission denied (publickey).
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid$ cd /mnt/c/Users/Junaid/Downloads
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid/Downloads$ ls test1.pem
test1.pem
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid/Downloads$ chmod 400 test1.pem
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid/Downloads$ ls -l test1.pem
-r-xr-xr-x 1 junaid junaid 1678 Jan 22 12:35 test1.pem
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid/Downloads$ ssh -i test1.pem ubuntu@3.147.63.195
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@                WARNING: UNPROTECTED PRIVATE KEY FILE!                @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions 0555 for 'test1.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "test1.pem": bad permissions
ubuntu@3.147.63.195: Permission denied (publickey).
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid/Downloads$ chmod 400 test1.pem
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid/Downloads$ ls -l test1.pem
-r-xr-xr-x 1 junaid junaid 1678 Jan 22 12:35 test1.pem
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid/Downloads$ ssh -i test1.pem ubuntu@3.147.63.195
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@                WARNING: UNPROTECTED PRIVATE KEY FILE!                @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
Permissions 0555 for 'test1.pem' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "test1.pem": bad permissions
ubuntu@3.147.63.195: Permission denied (publickey).
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid/Downloads$ cp /mnt/c/Users/Junaid/Downloads/test1.pem ~/
junaid@LAPTOP-GU5B805P:/mnt/c/Users/Junaid/Downloads$ cd ~
junaid@LAPTOP-GU5B805P:~$ pwd
/home/junaid
junaid@LAPTOP-GU5B805P:~$ chmod 400 test1.pem
junaid@LAPTOP-GU5B805P:~$ ls -l test1.pem
-r----- 1 junaid junaid 1678 Jan 22 12:43 test1.pem
junaid@LAPTOP-GU5B805P:~$ ssh -i ~/test1.pem ubuntu@3.147.63.195
Welcome to Ubuntu 24.04.3 LTS (GNU/Linux 6.14.0-1018-aws x86_64)

* Documentation:  https://help.ubuntu.com

```

```
junaaid@LAPTOP-GU5B805P: ~  
Get:31 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7284 B]  
Get:32 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [368 B]  
Get:33 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [29.5 kB]  
Get:34 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [17.9 kB]  
Get:35 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [10.5 kB]  
Get:36 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [144  
4 B]  
Get:37 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [216 B]  
Get:38 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [1  
16 B]  
Get:39 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]  
Get:40 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [1  
16 B]  
Get:41 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [1409 kB]  
Get:42 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [229 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 [9800 B]  
Get:45 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [924 kB]  
Get:46 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [209 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 [19.7 kB]  
Get:49 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [2302 kB]  
Get:50 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [527 kB]  
Get:51 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]  
Get:52 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [28.0 kB]  
Get:53 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [6472 B]  
Get:54 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]  
Get:55 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [384 B]  
Fetched 39.3 MB in 6s (6576 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
55 packages can be upgraded. Run 'apt list --upgradable' to see them.  
ubuntu@ip-172-31-12-192:~$ client_loop: send disconnect: Broken pipe  
junaaid@LAPTOP-GU5B805P:~$
```



```
ubuntu@ip-172-31-12-192: ~  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
Last login: Thu Jan 22 12:44:06 2026 from 42.111.145.224  
ubuntu@ip-172-31-12-192:~$ sudo apt install docker.io -y  
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 cgroupfs-mount | cgroup-lite debootstrap 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 55 not upgraded.  
Need to get 76.0 MB of archives.  
After this operation, 288 MB of additional disk space will be used.  
Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu/noble/universe/amd64/pigz amd64 2.8-1 [65.6 kB]  
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu/noble/main/amd64/bridge-utils amd64 1.7.1-1ubuntu2  
[33.9 kB]  
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu/noble-updates/main/amd64/runc amd64 1.3.3-0ubuntu1~  
24.04.3 [8815 kB]  
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu/noble-updates/main/amd64/containerd amd64 1.7.28-0u  
buntu1~24.04.1 [38.4 MB]  
Get:5 http://us-east-2.ec2.archive.ubuntu.com/ubuntu/noble-updates/main/amd64/dns-root-data all 20240718  
01~ubuntu0.24.04.1 [5918 B]  
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu/noble-updates/main/amd64/dnsmasq-base amd64 2.90-2u  
buntu0.1 [376 kB]  
Get:7 http://us-east-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://us-east-2.ec2.archive.ubuntu.com/ubuntu/noble-updates/universe/amd64/ubuntu-fan all 0.12.16  
+24.04.1 [34.2 kB]  
Fetched 76.0 MB in 1s (88.9 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_1.7.28-0ubuntu1~24.04.1_amd64.deb ...  
Unpacking containerd (1.7.28-0ubuntu1~24.04.1) ...  
Selecting previously unselected package dns-root-data.  
Preparing to unpack .../4-dns-root-data_2024071801~ubuntu0.24.04.1_all.deb ...
```

```
ubuntu@ip-172-31-12-192: ~  
Preparing to unpack .../3-containerd_1.7.28-0ubuntu1~24.04.1_amd64.deb ...  
Unpacking containerd (1.7.28-0ubuntu1~24.04.1) ...  
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 (1.7.28-0ubuntu1~24.04.1) ...  
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-172-31-12-192:~$
```

```
ubuntu@ip-172-31-12-192:~$ sudo systemctl start docker  
sudo systemctl enable docker  
ubuntu@ip-172-31-12-192:~$ docker --version  
Docker version 28.2.2, build 28.2.2-0ubuntu1~24.04.1  
ubuntu@ip-172-31-12-192:~$
```

```
junaidd@LAPTOP-GU5B805P: ~  
  
System load: 0.0      Temperature: -273.1 C  
Usage of /: 26.0% of 6.71GB  Processes: 112  
Memory usage: 22%    Users logged in: 0  
Swap usage: 0%       IPv4 address for ens5: 172.31.12.192  
  
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-172-31-12-192:~$ sudo apt update  
Hit:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble InRelease  
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]  
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]  
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]  
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]  
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]  
Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]  
Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]  
Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]  
Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]  
Get:13 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1698 kB]  
Get:14 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [314 kB]  
Get:15 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [175 kB]  
Get:16 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [16.0 kB]  
Get:17 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1519 kB]  
Get:18 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [310 kB]  
Get:19 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [386 kB]  
Get:20 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [31.6 kB]  
Get:21 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [2426 kB]  
Get:22 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [554 kB]  
Hit:23 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble InRelease  
Hit:24 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease  
Hit:25 http://us-east-2.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease  
Fetched 108 MB in 20s (5380 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Calculating upgrade... Done  
0 packages can be upgraded. New packages to be installed: 0.  
To show this message every time a package is updated, run: sudo dpkg --get-selections | sed -i 's/multiverse hold/multiverse hold hold/'  
  
ubuntu@ip-172-31-12-192:~$ sudo systemctl start docker  
sudo systemctl enable docker  
ubuntu@ip-172-31-12-192:~$ docker --version  
Docker version 28.2.2, build 28.2.2-0ubuntu1~24.04.1  
ubuntu@ip-172-31-12-192:~$  
  
ubuntu@ip-172-31-12-192:~$ sudo usermod -aG docker ubuntu  
ubuntu@ip-172-31-12-192:~$ newgrp docker  
ubuntu@ip-172-31-12-192:~$ docker ps  
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES  
ubuntu@ip-172-31-12-192:~$
```



```
ubuntu@ip-172-31-12-192:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu@ip-172-31-12-192:~$ docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
119d43eec815: Pull complete
700146c8ad64: Pull complete
d989100b8a84: Pull complete
500799c30424: Pull complete
10b68cfefee1: Pull complete
57f0dd1befe2: Pull complete
eaf8753feae0: Pull complete
Digest: sha256:c881927c4077710ac4b1da63b83aa163937fb47457950c267d92f7e4dedf4aec
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
ubuntu@ip-172-31-12-192:~$ docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
a3629ac5b9f4: Pull complete
Digest: sha256:cd1dba651b3080c3686ecf4e3c4220f026b521fb76978881737d24f200828b2b
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-31-12-192:~$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
ubuntu latest 493218ed0f40 9 days ago 78.1MB
nginx latest 4af177a024eb 9 days ago 161MB
ubuntu@ip-172-31-12-192:~$
```



```

ubuntu@ip-172-31-12-192: ~
docker pull ubuntu
docker images
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: He
ad "http://%2Fvar%2Frun%2Fdocker.sock/_ping": dial unix /var/run/docker.sock: connect: permission denied
Using default tag: latest
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Po
st "http://%2Fvar%2Frun%2Fdocker.sock/v1.50/images/create?fromImage=docker.io%2Flibrary%2Fnginx&tag=late
st": dial unix /var/run/docker.sock: connect: permission denied
Using default tag: latest
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Po
st "http://%2Fvar%2Frun%2Fdocker.sock/v1.50/images/create?fromImage=docker.io%2Flibrary%2Fubuntu&tag=lat
est": dial unix /var/run/docker.sock: connect: permission denied
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: He
ad "http://%2Fvar%2Frun%2Fdocker.sock/_ping": dial unix /var/run/docker.sock: connect: permission denied
ubuntu@ip-172-31-12-192:~$ sudo usermod -aG docker ubuntu
ubuntu@ip-172-31-12-192:~$ newgrp docker
ubuntu@ip-172-31-12-192:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
ubuntu@ip-172-31-12-192:~$ docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
ubuntu@ip-172-31-12-192:~$ docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
119d43eec815: Pull complete
700146c8ad64: Pull complete
d989100b8a84: Pull complete
500799c30424: Pull complete
10b68cfefee1: Pull complete
57f0dd1bef2: Pull complete
eaf8753feae0: Pull complete
Digest: sha256:c881927c4077710ac4b1da63b83aa163937fb47457950c267d92f7e4dedf4aec
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
ubuntu@ip-172-31-12-192:~$ docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
a3629ac5b9f4: Pull complete
Digest: sha256:cd1dba651b3080c3686ecf4e3c4220f026b521fb76978881737d24f200828b2b
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
ubuntu@ip-172-31-12-192:~$ docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
ubuntu        latest    493218ed0f40   9 days ago   78.1MB
nginx         latest    4af177a024eb   9 days ago   161MB
ubuntu@ip-172-31-12-192:~$ docker run -d --name mynginx -p 80:80 nginx
74322d85be3088921414ded86659e136e56d901e48ac0e51bbc7d466b54adbfb
ubuntu@ip-172-31-12-192:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS
74322d85be30   nginx     "/docker-entrypoint..."   About a minute ago   Up About a minute   0.0.0.0:80->8
0/tcp, [::]:80->80/tcp   mynginx
ubuntu@ip-172-31-12-192:~$

```

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Welcome to nginx!

us-east-2.console.aws.amazon.com/ec2/home

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Details

Security group name

launch-wizard-1

Security group ID

sg-00daafb20715ca374

Description

Launch-wizard-1 created 2026-01-22T12:15:38.104Z

VPC ID

vpc-063b22f9a7ed43912

Owner

913218764078

Inbound rules count

2 Permission entries

Outbound rules count

1 Permission entry

Inbound rules

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Inbound rules (2)

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Manage tags

Edit inbound rules

Name	Security group rule ID	IP version	Type	Protocol	Port range	Source	Description
-	sg-0bad8dddb3228f41a	IPv4	HTTP	TCP	80	0.0.0.0/0	-
-	sg-0ec14e860b4c54ce2	IPv4	SSH	TCP	22	0.0.0.0/0	-

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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](#). Commercial support is available at [nginx.com](#).

Thank you for using nginx.

```
ubuntu@ip-172-31-12-192:~$ curl localhost
<!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>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>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>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
ubuntu@ip-172-31-12-192:~$ docker volume create myvolume
myvolume
ubuntu@ip-172-31-12-192:~$ docker volume ls
DRIVER      VOLUME NAME
local       myvolume
ubuntu@ip-172-31-12-192:~$ docker volume inspect myvolume
[
  {
    "CreatedAt": "2026-01-22T13:14:42Z",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/myvolume/_data",
    "Name": "myvolume",
    "Options": null,
    "Scope": "local"
  }
]
```

```
ubuntu@ip-172-31-12-192:~$ docker network ls
NETWORK ID          NAME                DRIVER              SCOPE
a92b880366c3        bridge             bridge              local
74b2c3d57bde        host               host                local
1a8ccf31b7a0        none              null                local
ubuntu@ip-172-31-12-192:~$ docker network create mynetwork
bf47521afe32a3a605d4a5f225b040df499b4e0c1163f8b01ec03125a29052c6
ubuntu@ip-172-31-12-192:~$ docker network inspect mynetwork
[
  {
    "Name": "mynetwork",
    "Id": "bf47521afe32a3a605d4a5f225b040df499b4e0c1163f8b01ec03125a29052c6",
    "Created": "2026-01-22T13:15:29.700844154Z",
    "Scope": "local",
    "Driver": "bridge",
    "EnableIPv4": true,
    "EnableIPv6": false,
    "IPAM": {
      "Driver": "default",
      "Options": {},
      "Config": [
        {
          "Subnet": "172.18.0.0/16",
          "Gateway": "172.18.0.1"
        }
      ]
    },
    "Internal": false,
    "Attachable": false,
    "Ingress": false,
    "ConfigFrom": {
      "Network": ""
    },
    "ConfigOnly": false,
    "Containers": {},
    "Options": {},
    "Labels": {}
  }
]
```

```
ubuntu@ip-172-31-12-192:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-12-192:~$ mkdir docker-ec2-assignment
ubuntu@ip-172-31-12-192:~$ cd docker-ec2-assignment
ubuntu@ip-172-31-12-192:~/docker-ec2-assignment$ pwd
/home/ubuntu/docker-ec2-assignment
ubuntu@ip-172-31-12-192:~/docker-ec2-assignment$
```