

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#instances=v:3,\$case=tags:true%5C,client:false,\$regex=tags:false%5C,client:false

Search [Option+S]

VPC EC2 S3 CloudTrail

Dashboard  
EC2 Global View  
Events

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive) All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
docker_vm	i-0386ffdac8261206b	Running	t2.micro	2/2 checks passed	View alarms +	ap-south-1b	ec2-13-232-165-94...

i-0386ffdac8261206b (docker\_vm)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary Info

Instance details Info

AMI ID ami-05fa46471b02db0ce	Monitoring disabled	Platform details Linux/UNIX
AMI name al2023-ami-2023.6.20250128.0-kernel-6.1-x86_64	Allowed image -	Termination protection Disabled
Stop protection Disabled	Launch time Fri Jan 31 2025 20:21:55 GMT+0530 (India Standard Time) (5 minutes)	AMI location amazon/al2023-ami-2023.6.20250128.0-kernel-6.1-x86_64
Instance auto-recovery Default	Lifecycle normal	Stop-hibernate behavior Disabled
AMI launch index	Key pair assigned at launch	State transition reason

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VPC EC2 S3 CloudTrail

Asia Pacific (Mumbai) Vignesh Rajesh

```
ec2-user@ip-172-31-5-120 ~]$ sudo yum update -y
Last metadata expiration check: 0:13:05 ago on Fri Jan 31 14:52:44 2025.
Dependencies resolved.
Nothing to do.
Complete!
ec2-user@ip-172-31-5-120 ~]$
```

i-0386ffdac8261206b (docker\_vm)

PublicIp: 13.232.165.94 PrivateIp: 172.31.5.120

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```
ec2-user@ip-172-31-5-120 ~$ sudo yum update -y
Last metadata expiration check: 0:13:05 ago on Fri Jan 31 14:52:44 2025.
Dependencies resolved.
Nothing to do.
Complete!
ec2-user@ip-172-31-5-120 ~$ sudo apt install docker.io
sudo: apt: command not found
ec2-user@ip-172-31-5-120 ~$ sudo yum install docker.io
Last metadata expiration check: 0:13:51 ago on Fri Jan 31 14:52:44 2025.
No match for argument: docker.io
Error: Unable to find a match: docker.io
ec2-user@ip-172-31-5-120 ~$ sudo yum install -y docker
Last metadata expiration check: 0:14:56 ago on Fri Jan 31 14:52:44 2025.
Dependencies resolved.
```

Package	Architecture	Version	Repository	Size
Installing:				
docker	x86_64	25.0.6-1.amzn2023.0.2	amazonlinux	44 M
Installing dependencies:				
containerd	x86_64	1.7.25-1.amzn2023.0.1	amazonlinux	36 M
iptables-libs	x86_64	1.8.8-3.amzn2023.0.2	amazonlinux	451 k
iptables-nft	x86_64	1.8.8-3.amzn2023.0.2	amazonlinux	183 k
libcgroup	x86_64	3.0-1.amzn2023.0.1	amazonlinux	75 k
libnetfilter_conntrack	x86_64	1.0.8-2.amzn2023.0.2	amazonlinux	58 k
libnftnl	x86_64	1.0.1-19.amzn2023.0.2	amazonlinux	36 k
libnftnl	x86_64	1.2.2-2.amzn2023.0.2	amazonlinux	84 k
pkgconf	x86_64	2.5-1.amzn2023.0.3	amazonlinux	83 k
runC	x86_64	1.2.4-1.amzn2023.0.1	amazonlinux	3.4 M

Transaction Summary

Install 10 Packages

Total download size: 84 M  
Installed size: 319 M

Downloading Packages:

1/10): iptables-libs-1.8.8-3.amzn2023.0.2.x86_64.rpm	3.6 MB/s	401 kB	00:00
2/10): iptables-nft-1.8.8-3.amzn2023.0.2.x86_64.rpm	6.0 MB/s	183 kB	00:00
3/10): libcgroup-3.0-1.amzn2023.0.1.x86_64.rpm	2.0 MB/s	75 kB	00:00
4/10): libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64.rpm	1.0 MB/s	58 kB	00:00
5/10): libnftnl-1.0.1-19.amzn2023.0.2.x86_64.rpm	945 KB/s	36 kB	00:00
6/10): libnftnl-1.2.2-2.amzn2023.0.2.x86_64.rpm	1.7 MB/s	84 kB	00:00

i-0386ffdc8261206b (docker\_vm)

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Vignesh Rajesh

VPC

EC2

S3

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```
10/10): docker-25.0.6-1.amzn2/
-----
Total
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing :
Installing : runC-1.2.4-1.amzn2023.0.1.x86_64 1/10
Installing : containerd-1.7.25-1.amzn2023.0.1.x86_64 2/10
Running scriptlet: containerd-1.7.25-1.amzn2023.0.1.x86_64 2/10
Installing : pkgconf-2.5-1.amzn2023.0.3.x86_64 3/10
Installing : libnftnl-1.2.2-2.amzn2023.0.2.x86_64 4/10
Installing : libnftnl-1.0.1-19.amzn2023.0.2.x86_64 5/10
Installing : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64 6/10
Installing : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64 7/10
Installing : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 8/10
Running scriptlet: iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 8/10
Installing : libcgroup-3.0-1.amzn2023.0.1.x86_64 9/10
Running scriptlet: docker-25.0.6-1.amzn2023.0.2.x86_64 10/10
Installing : docker-25.0.6-1.amzn2023.0.2.x86_64 10/10
Running scriptlet: docker-25.0.6-1.amzn2023.0.2.x86_64 10/10
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.
Verifying : containerd-1.7.25-1.amzn2023.0.1.x86_64 1/10
Verifying : docker-25.0.6-1.amzn2023.0.2.x86_64 2/10
Verifying : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64 3/10
Verifying : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 4/10
Verifying : libcgroup-3.0-1.amzn2023.0.1.x86_64 5/10
Verifying : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64 6/10
Verifying : libnftnl-1.0.1-19.amzn2023.0.2.x86_64 7/10
Verifying : libnftnl-1.2.2-2.amzn2023.0.2.x86_64 8/10
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Verifying : runC-1.2.4-1.amzn2023.0.1.x86_64 10/10
Installed:
containerd-1.7.25-1.amzn2023.0.1.x86_64 docker-25.0.6-1.amzn2023.0.2.x86_64 iptables-libs-1.8.8-3.amzn2023.0.2.x86_64 iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
libcgroup-3.0-1.amzn2023.0.1.x86_64 libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64 libnftnl-1.0.1-19.amzn2023.0.2.x86_64 libnftnl-1.2.2-2.amzn2023.0.2.x86_64
pkgconf-2.5-1.amzn2023.0.3.x86_64 runC-1.2.4-1.amzn2023.0.1.x86_64
complete!
ec2-user@ip-172-31-5-120 ~$
```

i-0386ffdc8261206b (docker\_vm)

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```
total
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing :
Installing : runc-1.2.4-1.amzn2023.0.1.x86_64 1/1
Installing : containerd-1.7.25-1.amzn2023.0.1.x86_64 1/10
Running scriptlet: containerd-1.7.25-1.amzn2023.0.1.x86_64 2/10
Installing : pigz-2.5-1.amzn2023.0.3.x86_64 2/10
Installing : libnftnl-1.2.2-2.amzn2023.0.2.x86_64 3/10
Installing : libnftnl-1.2.2-2.amzn2023.0.2.x86_64 4/10
Installing : libnftnl-1.0.1-19.amzn2023.0.2.x86_64 5/10
Installing : libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64 6/10
Installing : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64 7/10
Installing : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 8/10
Running scriptlet: iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 8/10
Installing : libcgroup-3.0-1.amzn2023.0.1.x86_64 9/10
Running scriptlet: docker-25.0.6-1.amzn2023.0.2.x86_64 10/10
Installing : docker-25.0.6-1.amzn2023.0.2.x86_64 10/10
Running scriptlet: docker-25.0.6-1.amzn2023.0.2.x86_64 10/10
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /usr/lib/systemd/system/docker.socket.

Verifying : containerd-1.7.25-1.amzn2023.0.1.x86_64 1/10
Verifying : docker-25.0.6-1.amzn2023.0.2.x86_64 2/10
Verifying : iptables-libs-1.8.8-3.amzn2023.0.2.x86_64 3/10
Verifying : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 4/10
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Verifying : libnftnl-1.0.1-19.amzn2023.0.2.x86_64 7/10
Verifying : libnftnl-1.2.2-2.amzn2023.0.2.x86_64 8/10
Verifying : pigz-2.5-1.amzn2023.0.3.x86_64 9/10
Verifying : runc-1.2.4-1.amzn2023.0.1.x86_64 10/10

Installed:
containerd-1.7.25-1.amzn2023.0.1.x86_64  docker-25.0.6-1.amzn2023.0.2.x86_64  iptables-libs-1.8.8-3.amzn2023.0.2.x86_64  iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
libcgroup-3.0-1.amzn2023.0.1.x86_64  libnetfilter_conntrack-1.0.8-2.amzn2023.0.2.x86_64  libnftnl-1.0.1-19.amzn2023.0.2.x86_64  libnftnl-1.2.2-2.amzn2023.0.2.x86_64
pigz-2.5-1.amzn2023.0.3.x86_64  runc-1.2.4-1.amzn2023.0.1.x86_64

Complete!
ec2-user@ip-172-31-5-120 ~$ docker --version
Docker version 25.0.5, build 5dc9b9c
ec2-user@ip-172-31-5-120 ~$
```

```
running transaction
Preparing : runc-1.2.4-1.amzn2023.0.1.x86_64 1/10
Installing : containerd-1.7.25-1.amzn2023.0.1.x86_64 1/10
Running scriptlet: containerd-1.7.25-1.amzn2023.0.1.x86_64 2/10
Installing : pigz-2.5-1.amzn2023.0.3.x86_64 2/10
Installing : libnftnl-1.2.2-2.amzn2023.0.2.x86_64 3/10
Installing : libnftnl-1.2.2-2.amzn2023.0.2.x86_64 4/10
Installing : libnftnl-1.0.1-19.amzn2023.0.2.x86_64 5/10
Installing : libnftfilter_contrack-1.0.8-2.amzn2023.0.2.x86_64 6/10
Installing : iptables-libse-1.8.8-3.amzn2023.0.2.x86_64 7/10
Installing : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 8/10
Running scriptlet: iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 8/10
Installing : libcgroup-3.0-1.amzn2023.0.1.x86_64 9/10
Running scriptlet: docker-25.0.6-1.amzn2023.0.2.x86_64 10/10
Installing : docker-25.0.6-1.amzn2023.0.2.x86_64 10/10
Running scriptlet: docker-25.0.6-1.amzn2023.0.2.x86_64 10/10
created symlink /etc/systemd/system/sockets.target.wants/docker.socket -> /usr/lib/systemd/system/docker.socket.

Verifying : containerd-1.7.25-1.amzn2023.0.1.x86_64 1/10
Verifying : docker-25.0.6-1.amzn2023.0.2.x86_64 2/10
Verifying : iptables-libse-1.8.8-3.amzn2023.0.2.x86_64 3/10
Verifying : iptables-nft-1.8.8-3.amzn2023.0.2.x86_64 4/10
Verifying : libcgroup-3.0-1.amzn2023.0.1.x86_64 5/10
Verifying : libnftfilter_contrack-1.0.8-2.amzn2023.0.2.x86_64 6/10
Verifying : libnftnl-1.0.1-19.amzn2023.0.2.x86_64 7/10
Verifying : libnftnl-1.2.2-2.amzn2023.0.2.x86_64 8/10
Verifying : pigz-2.5-1.amzn2023.0.3.x86_64 9/10
Verifying : runc-1.2.4-1.amzn2023.0.1.x86_64 10/10

Installed:
containerd-1.7.25-1.amzn2023.0.1.x86_64 docker-25.0.6-1.amzn2023.0.2.x86_64 iptables-libse-1.8.8-3.amzn2023.0.2.x86_64 iptables-nft-1.8.8-3.amzn2023.0.2.x86_64
libcgroup-3.0-1.amzn2023.0.1.x86_64 libnftfilter_contrack-1.0.8-2.amzn2023.0.2.x86_64 libnftnl-1.0.1-19.amzn2023.0.2.x86_64 libnftnl-1.2.2-2.amzn2023.0.2.x86_64
pigz-2.5-1.amzn2023.0.3.x86_64 runc-1.2.4-1.amzn2023.0.1.x86_64

Complete!
ec2-user@ip-172-31-5-120 ~$ docker --version
Docker version 25.0.5, build 5de9bdc
ec2-user@ip-172-31-5-120 ~$ docker images
Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running?
ec2-user@ip-172-31-5-120 ~$ sudo systemctl start docker
ec2-user@ip-172-31-5-120 ~$ sudo systemctl enable docker
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service -> /usr/lib/systemd/system/docker.service.
ec2-user@ip-172-31-5-120 ~$
```

i-0386ffdc8261206b (docker\_vm)

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```
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/

ec2-user@ip-172-31-5-120 ~$ docker images
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Head "http://%2Fvar%2Frun%2Fdocker.sock/_ping": dial unix /var/run/docker.sock: connect:
permission denied
ec2-user@ip-172-31-5-120 ~$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hello-world latest 74cc54e27dc4 9 days ago 10.1kB
ec2-user@ip-172-31-5-120 ~$ docker pull httpd
Using default tag: latest
permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.44/images/create?fromImage=httpd&tag=latest":
dial unix /var/run/docker.sock: connect: permission denied
ec2-user@ip-172-31-5-120 ~$ sudo docker pull httpd
Using default tag: latest
latest: Pulling from library/httpd
af302e5c37e9: Pull complete
b14eb3a15a0: Pull complete
f44fb70ef54: Pull complete
bbbed5aab366: Pull complete
b4e5e6c6b497: Pull complete
f5fb3699ae: Pull complete
Digest: sha256:437b9f7d469dd606f6d2a5f9a3be55fe3af7e0c66e0329da8c14b291ae0d31c
Status: Downloaded newer image for httpd:latest
docker.io/library/httpd:latest
ec2-user@ip-172-31-5-120 ~$
```

i-0386ffdc8261206b (docker\_vm)

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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/>

ec2-user@ip-172-31-5-120 ~\$ docker images

permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Head "http://%2Fvar%2Frun%2Fdocker.sock/\_ping": dial unix /var/run/docker.sock: connect: permission denied

ec2-user@ip-172-31-5-120 ~\$ sudo docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

hello-world latest 74cc54e27dc4 9 days ago 10.1kB

ec2-user@ip-172-31-5-120 ~\$ docker pull httpd

Using default tag: latest

permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.44/images/create?fromImage=httpd&tag=latest": dial unix /var/run/docker.sock: connect: permission denied

ec2-user@ip-172-31-5-120 ~\$ sudo docker pull httpd

Using default tag: latest

latest: Pulling from library/httpd

af302e5c37e9: Pull complete

14eb63a19a0: Pull complete

f44fb70eef64: Pull complete

bbcd5aab366: Pull complete

14e5e6c6b497: Pull complete

f5fb3699ae: Pull complete

Digest: sha256:437b9f7d469dd606fa6d2a5f9a3be55fe3af7e0c66e0329da8c14b291ae0d31c

Status: Downloaded newer image for httpd:latest

docker.io/library/httpd:latest

ec2-user@ip-172-31-5-120 ~\$ docker run -itd -p "9090:80" httpd

Docker: permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Head "http://%2Fvar%2Frun%2Fdocker.sock/\_ping": dial unix /var/run/docker.sock: connect: permission denied.

See 'docker run --help'.

ec2-user@ip-172-31-5-120 ~\$ sudo docker run -itd -p "9090:80" httpd

f78ba565f6d7dabfb38e03903723dad776c5734bb526a156a9dfbf64a78b74

ec2-user@ip-172-31-5-120 ~\$

i-0386ffdac8261206b (docker\_vm)

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13.232.165.94:9090

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Test Suites & Cases...

# It works!

```
ec2-user@ip-172-31-5-120 ~]$ sudo docker run -d --name my-nginx -p 8080:80 nginx
Unable to find image 'nginx:latest' locally
latest: Pulling from library/nginx
1f202e5e37e9: Already exists
807b812743af: Pull complete
841e383b441e: Pull complete
2256c04a8d84: Pull complete
8e992d287e5: Pull complete
9e9aab598f58: Pull complete
fde87b37f4ad: Pull complete
Digest: sha256:0a399eb16751829e1aff26f9a77b20c3ec28d7ab1fb72182879dcaelcca21206a
Status: Downloaded newer image for nginx:latest
ab9f8a33bc79a4c1731173ec0b0934cd6c6e60627edd3656be5b84d0f9a7c404
ec2-user@ip-172-31-5-120 ~]$ sudo docker run -d --name my-nginx -p 8080:80 nginx
docker: Error response from daemon: Conflict. The container name "/my-nginx" is already in use by container "ab9f8a33bc79a4c1731173ec0b0934cd6c6e60627edd3656be5b84d0f9a7c404". You have to re
move (or rename) that container to be able to reuse that name.
See 'docker run --help'.
ec2-user@ip-172-31-5-120 ~]$
```

i-0386ffdac8261206b (docker\_vm)

PublicIPs: 13.232.165.94 PrivateIPs: 172.31.5.120

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