

# ASSIGNMENT DAY-2

## A. Create an AWS EC2 Instance

The screenshot displays the AWS Management Console interface. The top section shows the 'Launch instance wizard' with a green status bar indicating 'Your instances are now launching'. Below this, there is a blue box for 'Get notified of estimated charges'. The 'How to connect to your instances' section provides instructions on monitoring and connecting to instances. A list of helpful resources is provided, including links to the Amazon EC2 User Guide and Discussion Forum. The bottom section shows the 'Instances' page with a table of instances. One instance, 'i-06114417791f3d64f' (Name: Docker), is shown in the 'Running' state. Below the table, the 'Instance: i-06114417791f3d64f (Docker)' details are expanded, showing various attributes like Instance ID, Public IPv4 address, Private IPv4 addresses, Instance state, and Instance type.

**Launch Status**

✓ Your instances are now launching  
The following instance launches have been initiated: i-06114417791f3d64f [View launch log](#)

ℹ Get notified of estimated charges  
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

**How to connect to your instances**

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

▼ Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

- [Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)

**Instances (1/1) Info**

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
Docker	i-06114417791f3d64f	Running	t2.micro	-	No alarms	ap-south-1a

**Instance: i-06114417791f3d64f (Docker)**

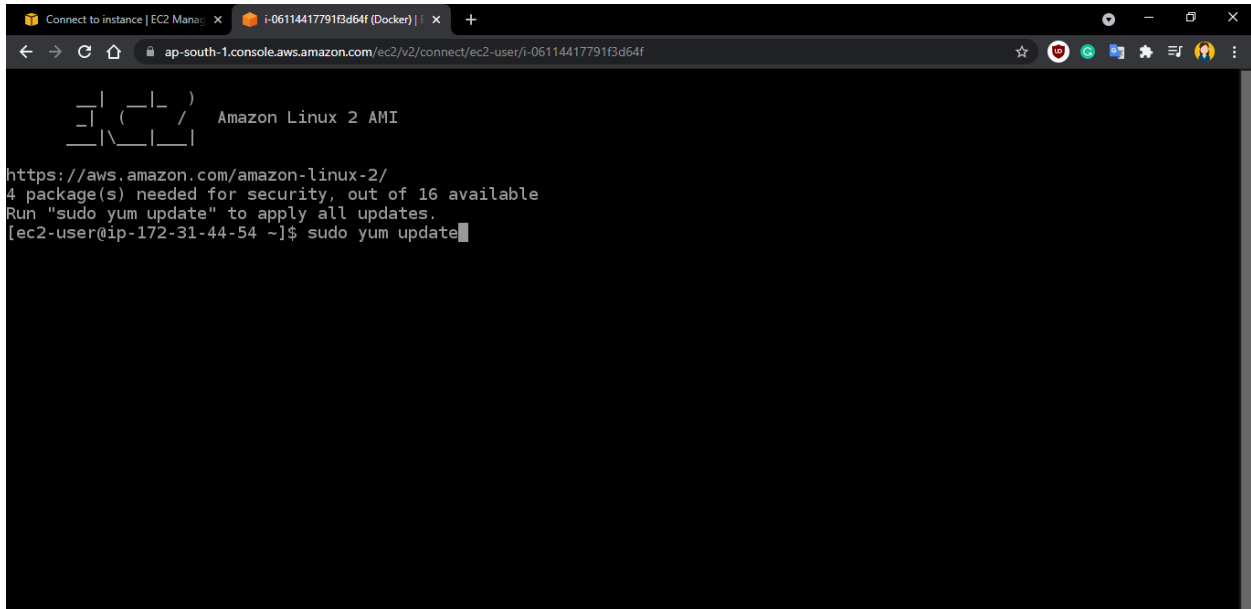
**Details** | Security | Networking | Storage | Status checks | Monitoring | Tags

▼ Instance summary Info

Instance ID i-06114417791f3d64f (Docker)	Public IPv4 address 13.233.231.140   <a href="#">open address</a>	Private IPv4 addresses 172.31.44.54
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-13-233-231-140.ap-south-1.compute.amazonaws.com   <a href="#">open address</a>
Private IPv4 DNS	Instance type t2.micro	Elastic IP addresses

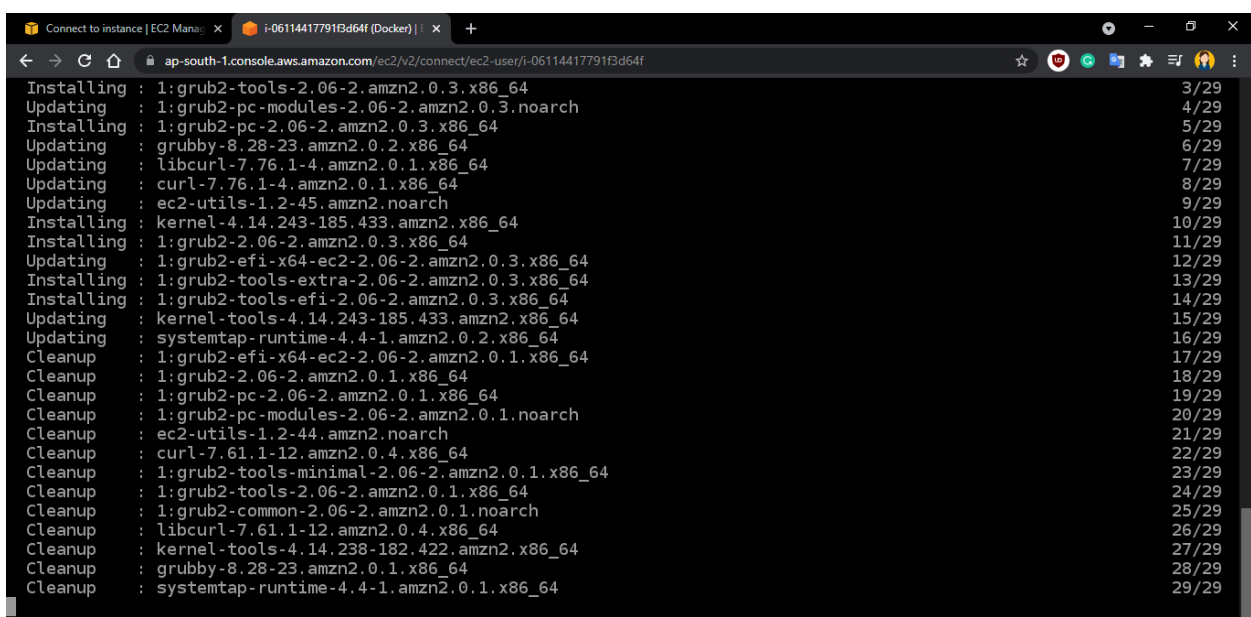
## B. Working with Docker

- sudo yum update



```
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 16 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-44-54 ~]$ sudo yum update
```

i-06114417791f3d64f (Docker)  
Public IPs: 13.233.231.140 Private IPs: 172.31.44.54



```
Installing : 1:grub2-tools-2.06-2.amzn2.0.3.x86_64 3/29
Updating : 1:grub2-pc-modules-2.06-2.amzn2.0.3.noarch 4/29
Installing : 1:grub2-pc-2.06-2.amzn2.0.3.x86_64 5/29
Updating : grubby-8.28-23.amzn2.0.2.x86_64 6/29
Updating : libcurl-7.76.1-4.amzn2.0.1.x86_64 7/29
Updating : curl-7.76.1-4.amzn2.0.1.x86_64 8/29
Updating : ec2-utils-1.2-45.amzn2.noarch 9/29
Installing : kernel-4.14.243-185.433.amzn2.x86_64 10/29
Installing : 1:grub2-2.06-2.amzn2.0.3.x86_64 11/29
Updating : 1:grub2-efi-x64-ec2-2.06-2.amzn2.0.3.x86_64 12/29
Installing : 1:grub2-tools-extra-2.06-2.amzn2.0.3.x86_64 13/29
Installing : 1:grub2-tools-efi-2.06-2.amzn2.0.3.x86_64 14/29
Updating : kernel-tools-4.14.243-185.433.amzn2.x86_64 15/29
Updating : systemtap-runtime-4.4-1.amzn2.0.2.x86_64 16/29
Cleaning : 1:grub2-efi-x64-ec2-2.06-2.amzn2.0.1.x86_64 17/29
Cleaning : 1:grub2-2.06-2.amzn2.0.1.x86_64 18/29
Cleaning : 1:grub2-pc-2.06-2.amzn2.0.1.x86_64 19/29
Cleaning : 1:grub2-pc-modules-2.06-2.amzn2.0.1.noarch 20/29
Cleaning : ec2-utils-1.2-44.amzn2.noarch 21/29
Cleaning : curl-7.61.1-12.amzn2.0.4.x86_64 22/29
Cleaning : 1:grub2-tools-minimal-2.06-2.amzn2.0.1.x86_64 23/29
Cleaning : 1:grub2-tools-2.06-2.amzn2.0.1.x86_64 24/29
Cleaning : 1:grub2-common-2.06-2.amzn2.0.1.noarch 25/29
Cleaning : libcurl-7.61.1-12.amzn2.0.4.x86_64 26/29
Cleaning : kernel-tools-4.14.238-182.422.amzn2.x86_64 27/29
Cleaning : grubby-8.28-23.amzn2.0.1.x86_64 28/29
Cleaning : systemtap-runtime-4.4-1.amzn2.0.1.x86_64 29/29
```

i-06114417791f3d64f (Docker)  
Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

- sudo yum install docker

```
Connect to instance | EC2 Manag... x i-06114417791f3d64f (Docker) | x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-06114417791f3d64f
Verifying : 1:grub2-2.06-2.amzn2.0.1.x86_64 21/29
Verifying : systemtap-runtime-4.4-1.amzn2.0.1.x86_64 22/29
Verifying : 1:grub2-tools-minimal-2.06-2.amzn2.0.1.x86_64 23/29
Verifying : curl-7.61.1-12.amzn2.0.4.x86_64 24/29
Verifying : 1:grub2-pc-2.06-2.amzn2.0.1.x86_64 25/29
Verifying : kernel-tools-4.14.238-182.422.amzn2.x86_64 26/29
Verifying : libcurl-7.61.1-12.amzn2.0.4.x86_64 27/29
Verifying : 1:grub2-pc-modules-2.06-2.amzn2.0.1.noarch 28/29
Verifying : grubby-8.28-23.amzn2.0.1.x86_64 29/29

Installed:
grub2.x86_64 1:2.06-2.amzn2.0.3 grub2-pc.x86_64 1:2.06-2.amzn2.0.3
grub2-tools.x86_64 1:2.06-2.amzn2.0.3 grub2-tools-efi.x86_64 1:2.06-2.amzn2.0.3
grub2-tools-extra.x86_64 1:2.06-2.amzn2.0.3 grub2-tools-minimal.x86_64 1:2.06-2.amzn2.0.3
kernel.x86_64 0:4.14.243-185.433.amzn2

Updated:
curl.x86_64 0:7.76.1-4.amzn2.0.1 ec2-utils.noarch 0:1.2-45.amzn2
grub2-common.noarch 1:2.06-2.amzn2.0.3 grub2-efi-x64-ec2.x86_64 1:2.06-2.amzn2.0.3
grub2-pc-modules.noarch 1:2.06-2.amzn2.0.3 grubby.x86_64 0:8.28-23.amzn2.0.2
kernel-tools.x86_64 0:4.14.243-185.433.amzn2 libcurl.x86_64 0:7.76.1-4.amzn2.0.1
systemtap-runtime.x86_64 0:4.4-1.amzn2.0.2

Replaced:
grub2.x86_64 1:2.06-2.amzn2.0.1 grub2-tools.x86_64 1:2.06-2.amzn2.0.1

Complete!
[ec2-user@ip-172-31-44-54 ~]$ sudo yum install docker
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

```
Connect to instance | EC2 Manag... x i-06114417791f3d64f (Docker) | x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-06114417791f3d64f
(4/5): docker-20.10.4-1.amzn2.x86_64.rpm | 32 MB 00:00:01
(5/5): runc-1.0.0-1.amzn2.x86_64.rpm | 3.3 MB 00:00:00
-----
Total 52 MB/s | 59 MB 00:00:01
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : runc-1.0.0-1.amzn2.x86_64 1/5
Installing : containerd-1.4.6-2.amzn2.x86_64 2/5
Installing : libcgrouper-0.41-21.amzn2.x86_64 3/5
Installing : pigz-2.3.4-1.amzn2.0.1.x86_64 4/5
Installing : docker-20.10.4-1.amzn2.x86_64 5/5
Verifying : docker-20.10.4-1.amzn2.x86_64 1/5
Verifying : pigz-2.3.4-1.amzn2.0.1.x86_64 2/5
Verifying : libcgrouper-0.41-21.amzn2.x86_64 3/5
Verifying : containerd-1.4.6-2.amzn2.x86_64 4/5
Verifying : runc-1.0.0-1.amzn2.x86_64 5/5

Installed:
docker.x86_64 0:20.10.4-1.amzn2

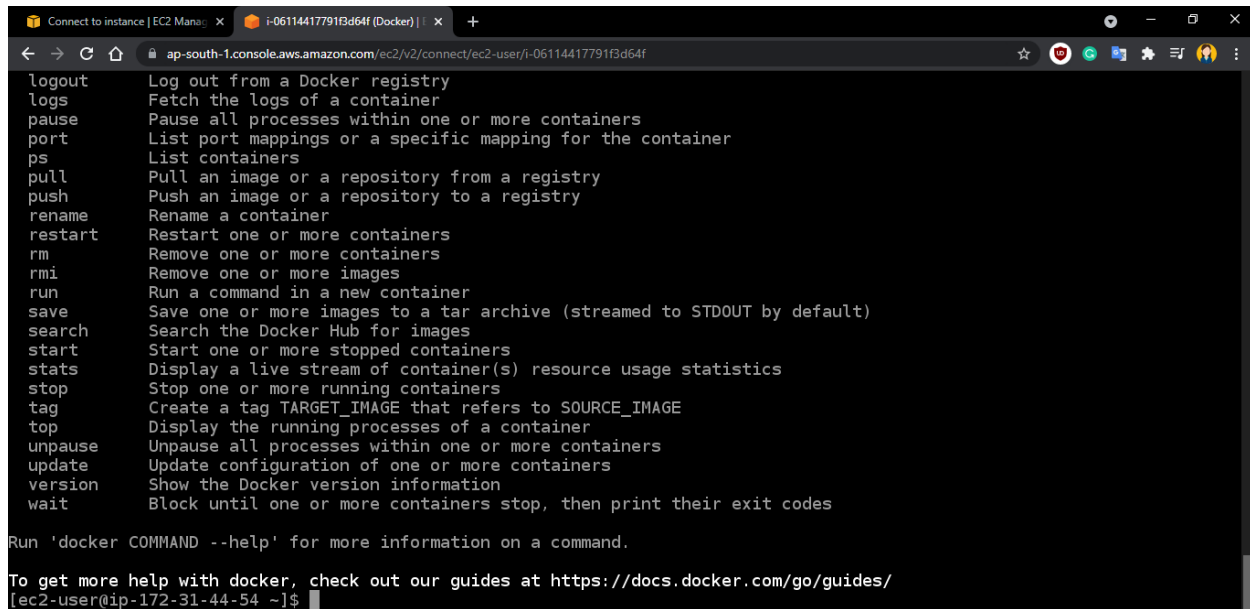
Dependency Installed:
containerd.x86_64 0:1.4.6-2.amzn2 libcgrouper.x86_64 0:0.41-21.amzn2 pigz.x86_64 0:2.3.4-1.amzn2.0.1
runc.x86_64 0:1.0.0-1.amzn2

Complete!
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

- docker



The screenshot shows the AWS Management Console interface for an EC2 instance named 'i-06114417791f3d64f'. The terminal window displays a list of Docker commands and their descriptions:

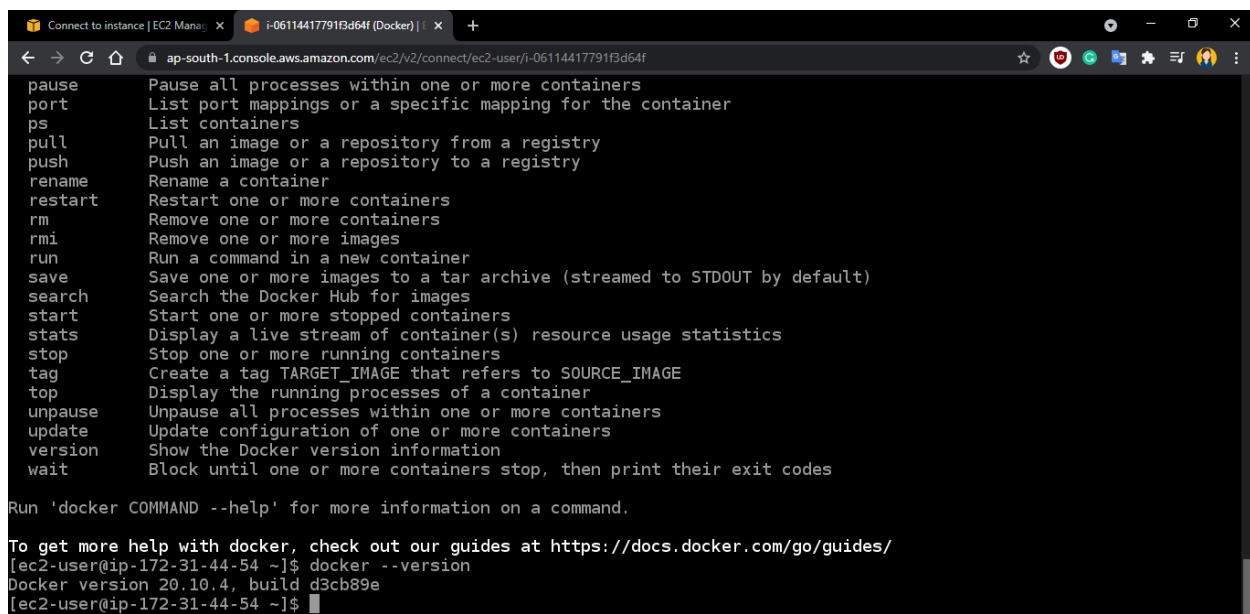
Command	Description
logout	Log out from a Docker registry
logs	Fetch the logs of a container
pause	Pause all processes within one or more containers
port	List port mappings or a specific mapping for the container
ps	List containers
pull	Pull an image or a repository from a registry
push	Push an image or a repository to a registry
rename	Rename a container
restart	Restart one or more containers
rm	Remove one or more containers
rmi	Remove one or more images
run	Run a command in a new container
save	Save one or more images to a tar archive (streamed to STDOUT by default)
search	Search the Docker Hub for images
start	Start one or more stopped containers
stats	Display a live stream of container(s) resource usage statistics
stop	Stop one or more running containers
tag	Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
top	Display the running processes of a container
unpause	Unpause all processes within one or more containers
update	Update configuration of one or more containers
version	Show the Docker version information
wait	Block until one or more containers stop, then print their exit codes

Run 'docker COMMAND --help' for more information on a command.

To get more help with docker, check out our guides at <https://docs.docker.com/go/guides/>

i-06114417791f3d64f (Docker)  
Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

- docker --version



The screenshot shows the AWS Management Console interface for the same EC2 instance. The terminal window displays the output of the 'docker --version' command:

```
[ec2-user@ip-172-31-44-54 ~]$ docker --version
Docker version 20.10.4, build d3cb89e
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)  
Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

- service docker start

```
ps      List containers
pull    Pull an image or a repository from a registry
push    Push an image or a repository to a registry
rename  Rename a container
restart Restart one or more containers
rm      Remove one or more containers
rmi     Remove one or more images
run     Run a command in a new container
save    Save one or more images to a tar archive (streamed to STDOUT by default)
search  Search the Docker Hub for images
start   Start one or more stopped containers
stats   Display a live stream of container(s) resource usage statistics
stop    Stop one or more running containers
tag     Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
top     Display the running processes of a container
unpause Unpause all processes within one or more containers
update  Update configuration of one or more containers
version Show the Docker version information
wait    Block until one or more containers stop, then print their exit codes

Run 'docker COMMAND --help' for more information on a command.

To get more help with docker, check out our guides at https://docs.docker.com/go/guides/
[ec2-user@ip-172-31-44-54 ~]$ docker --version
Docker version 20.10.4, build d3cb89e
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

## ● service docker status

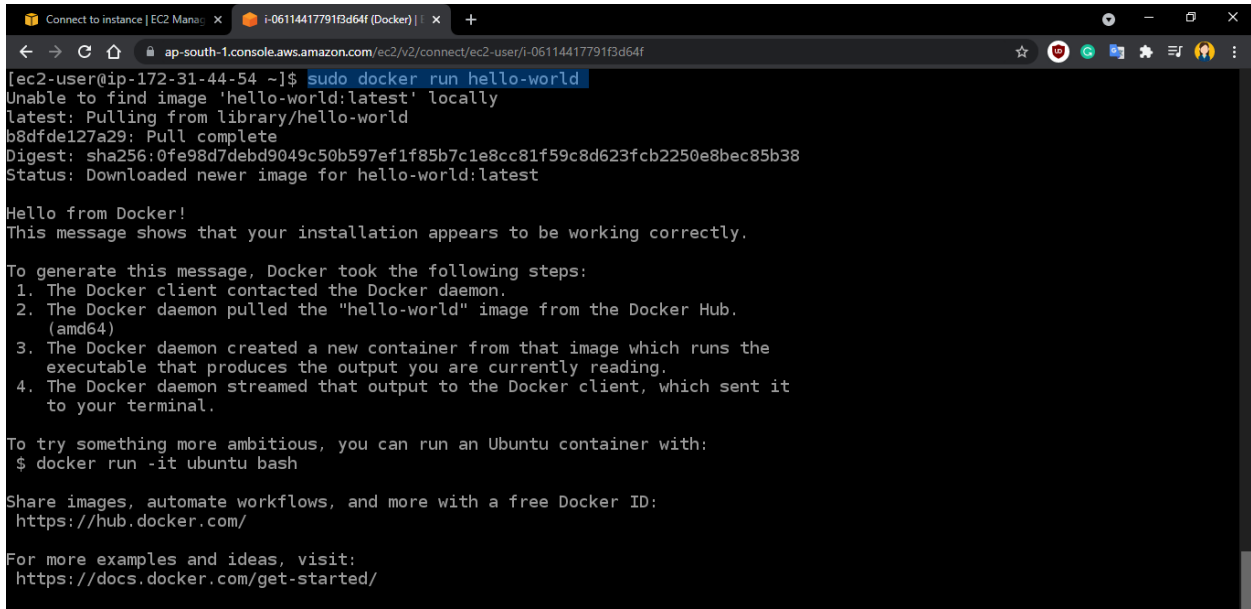
```
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker status
Redirecting to /bin/systemctl status docker.service
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: active (running) since Wed 2021-08-18 17:59:30 UTC; 8s ago
     Docs: https://docs.docker.com
   Process: 7966 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
   Process: 7956 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
  Main PID: 7970 (dockerd)
    Tasks: 7
   Memory: 37.6M
   CGroup: /system.slice/docker.service
           └─7970 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nofile=1024:4...

Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.400771426Z" level=info msg="Starting Docker Application Container Engine"
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.401063095Z" level=info msg="API listen on /var/run/docker.sock"
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.401339753Z" level=info msg="Listening for connections on /var/run/docker.sock"
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.447211444Z" level=info msg="Listening for connections on /var/run/docker.sock"
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.609225548Z" level=info msg="Listening for connections on /var/run/docker.sock"
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.665158830Z" level=info msg="Listening for connections on /var/run/docker.sock"
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.682505064Z" level=info msg="Listening for connections on /var/run/docker.sock"
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.682963697Z" level=info msg="Listening for connections on /var/run/docker.sock"
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.708421845Z" level=info msg="Listening for connections on /var/run/docker.sock"
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

- docker run hello-world



The screenshot shows a terminal window with the following output:

```
[ec2-user@ip-172-31-44-54 ~]$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
b8dfde127a29: Pull complete
Digest: sha256:0fe98d7debd9049c50b597ef1f85b7c1e8cc81f59c8d623fcb2250e8bec85b38
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

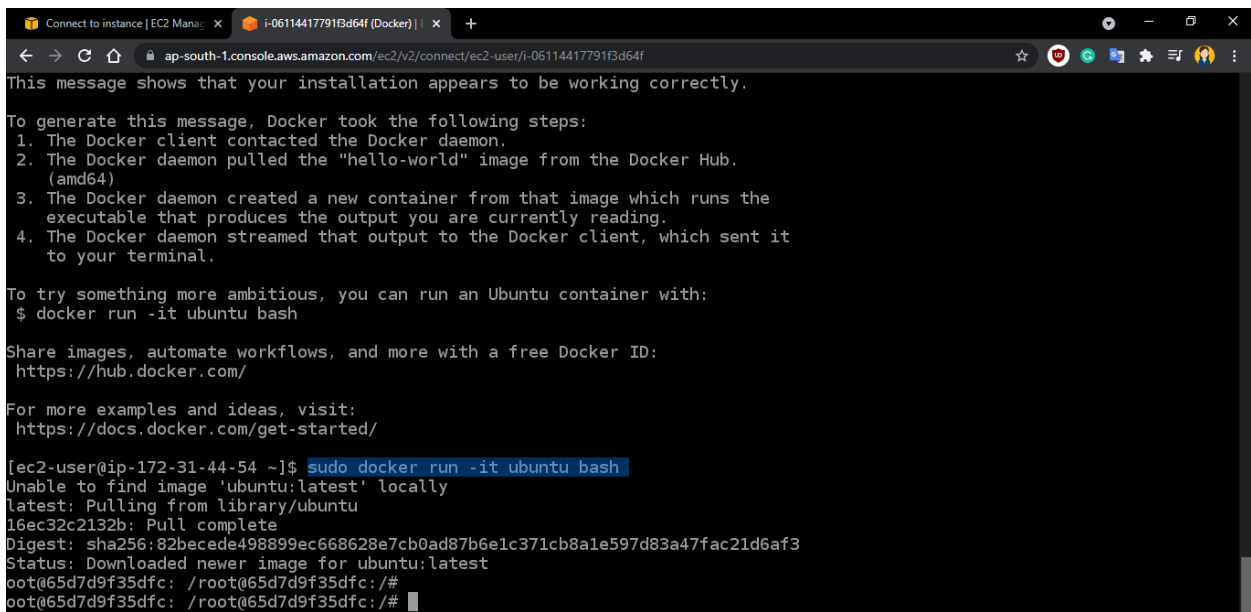
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

- docker run -it ubuntu bash



The screenshot shows a terminal window with the following output:

```
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-172-31-44-54 ~]$ sudo docker run -it ubuntu bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
16ec32c2132b: Pull complete
Digest: sha256:82becede498899ec668628e7cb0ad87b6e1c371cb8a1e597d83a47fac21d6af3
Status: Downloaded newer image for ubuntu:latest
oot@65d7d9f35dfc: /root@65d7d9f35dfc:/#
oot@65d7d9f35dfc: /root@65d7d9f35dfc:/#
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

## ● service docker stop

```
Connect to instance | EC2 Mana... x i-06114417791f3d64f (Docker) | x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-06114417791f3d64f
(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-172-31-44-54 ~]$ sudo docker run -it ubuntu bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
16ec32c2132b: Pull complete
Digest: sha256:82becede498899ec668628e7cb0ad87b6e1c371cb8a1e597d83a47fac21d6af3
Status: Downloaded newer image for ubuntu:latest
oot@65d7d9f35dfc: /root@65d7d9f35dfc:/#
oot@65d7d9f35dfc: /root@65d7d9f35dfc:/# exit
exit
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker stop
Redirecting to /bin/systemctl stop docker.service
Warning: Stopping docker.service, but it can still be activated by:
docker.socket
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

```
Connect to instance | EC2 Mana... x i-06114417791f3d64f (Docker) | x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-06114417791f3d64f
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker stop
Redirecting to /bin/systemctl stop docker.service
Warning: Stopping docker.service, but it can still be activated by:
docker.socket
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker status
Redirecting to /bin/systemctl status docker.service
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: inactive (dead) since Wed 2021-08-18 18:04:06 UTC; 7s ago
     Docs: https://docs.docker.com
   Process: 7970 ExecStart=/usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock $OPTIONS $DOCKER_STORAGE_
OPTIONS $DOCKER_ADD_RUNTIMES (code=exited, status=0/SUCCESS)
   Process: 7966 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
   Process: 7956 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
   Main PID: 7970 (code=exited, status=0/SUCCESS)

Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.682505064Z" leve...4
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.682963697Z" leve...n"
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 17:59:30 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T17:59:30.708421845Z" leve...k"
Aug 18 18:01:04 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T18:01:04.248109394Z" leve...e"
Aug 18 18:03:56 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T18:03:56.745986658Z" leve...e"
Aug 18 18:04:06 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Stopping Docker Application Container Engine...
Aug 18 18:04:06 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T18:04:06.381582909Z" leve...'"
Aug 18 18:04:06 ip-172-31-44-54.ap-south-1.compute.internal dockerd[7970]: time="2021-08-18T18:04:06.382292248Z" leve...e"
Aug 18 18:04:06 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Stopped Docker Application Container Engine.
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54



## C. Working with volumes

- docker volume create

```
Connect to instance [EC2 Mana... x] i-06114417791f3d64f (Docker) | x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-06114417791f3d64f
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker status
Redirecting to /bin/systemctl status docker.service
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: active (running) since Wed 2021-08-18 18:11:39 UTC; 1min 42s ago
     Docs: https://docs.docker.com
   Process: 9217 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
   Process: 9205 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
  Main PID: 9231 (dockerd)
    Tasks: 8
   Memory: 37.3M
   CGroup: /system.slice/docker.service
           └─9231 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nfile=1024:4...

Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.756633862Z" level=info msg="Starting daemon"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.756921239Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.770506651Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.776506051Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.880540328Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.920199937Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935128337Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935684477Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.959431179Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume create
ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

- docker volume inspect <volume-id>

```
Connect to instance [EC2 Mana... x] i-06114417791f3d64f (Docker) | x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-06114417791f3d64f
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.756633862Z" level=info msg="Starting daemon"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.756921239Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.770506651Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.776506051Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.880540328Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.920199937Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935128337Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935684477Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.959431179Z" level=info msg="API listen on /var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data"
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume create
ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume inspect ^C
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume inspect ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
[
  {
    "CreatedAt": "2021-08-18T18:13:27Z",
    "Driver": "local",
    "Labels": {},
    "Mountpoint": "/var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data",
    "Name": "ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588",
    "Options": {},
    "Scope": "local"
  }
]
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54



- docker volume ls

```
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.770506651Z" level="info" msg="Starting daemon"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.776506051Z" level="info" msg="API listen on /var/lib/docker/v2"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.880540328Z" level="info" msg="API listen on /var/lib/docker/v2"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.920199937Z" level="info" msg="API listen on /var/lib/docker/v2"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935128337Z" level="info" msg="API listen on /var/lib/docker/v2"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935684477Z" level="info" msg="API listen on /var/lib/docker/v2"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.959431179Z" level="info" msg="API listen on /var/lib/docker/v2"
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume create
ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume inspect ^C
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume inspect ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
[
  {
    "CreatedAt": "2021-08-18T18:13:27Z",
    "Driver": "local",
    "Labels": {},
    "Mountpoint": "/var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data",
    "Name": "ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588",
    "Options": {},
    "Scope": "local"
  }
]
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume ls
DRIVER      VOLUME NAME
local       ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

- docker volume rm <volume-id>

```
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935128337Z" level="info" msg="Starting daemon"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935684477Z" level="info" msg="API listen on /var/lib/docker/v2"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.959431179Z" level="info" msg="API listen on /var/lib/docker/v2"
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume create
ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume inspect ^C
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume inspect ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
[
  {
    "CreatedAt": "2021-08-18T18:13:27Z",
    "Driver": "local",
    "Labels": {},
    "Mountpoint": "/var/lib/docker/volumes/ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588/_data",
    "Name": "ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588",
    "Options": {},
    "Scope": "local"
  }
]
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume ls
DRIVER      VOLUME NAME
local       ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume rm ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
ad355a6aebd69c238a237e10d204005b255ef14db50ff5d96f0ab0cc2eae1588
[ec2-user@ip-172-31-44-54 ~]$ sudo docker volume ls
DRIVER      VOLUME NAME
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

- service docker stop

```
Connect to instance | EC2 Mana... x i-06114417791f3d64f (Docker) | x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-06114417791f3d64f
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker stop
Redirecting to /bin/systemctl stop docker.service
Warning: Stopping docker.service, but it can still be activated by:
  docker.socket
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker status
Redirecting to /bin/systemctl status docker.service
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: inactive (dead) since Wed 2021-08-18 18:16:37 UTC; 15s ago
     Docs: https://docs.docker.com
   Process: 9231 ExecStart=/usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock $OPTIONS $DOCKER_STORAGE_
OPTIONS $DOCKER_ADD_RUNTIMES (code=exited, status=0/SUCCESS)
   Process: 9217 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
   Process: 9205 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
  Main PID: 9231 (code=exited, status=0/SUCCESS)

Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.880540328Z" leve...s"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.920199937Z" leve...s"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935128337Z" leve...4
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935684477Z" leve...n"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.959431179Z" leve...k"
Aug 18 18:16:37 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Stopping Docker Application Container Engine.
Aug 18 18:16:37 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:16:37.077194579Z" leve...'"
Aug 18 18:16:37 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:16:37.078039048Z" leve...e"
Aug 18 18:16:37 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Stopped Docker Application Container Engine.
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

```
Connect to instance | EC2 Mana... x i-06114417791f3d64f (Docker) | x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-06114417791f3d64f
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker stop
Redirecting to /bin/systemctl stop docker.service
Warning: Stopping docker.service, but it can still be activated by:
  docker.socket
[ec2-user@ip-172-31-44-54 ~]$ sudo service docker status
Redirecting to /bin/systemctl status docker.service
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: inactive (dead) since Wed 2021-08-18 18:16:37 UTC; 15s ago
     Docs: https://docs.docker.com
   Process: 9231 ExecStart=/usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock $OPTIONS $DOCKER_STORAGE_
OPTIONS $DOCKER_ADD_RUNTIMES (code=exited, status=0/SUCCESS)
   Process: 9217 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
   Process: 9205 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
  Main PID: 9231 (code=exited, status=0/SUCCESS)

Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.880540328Z" leve...s"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.920199937Z" leve...s"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935128337Z" leve...4
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.935684477Z" leve...n"
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 18:11:39 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:11:39.959431179Z" leve...k"
Aug 18 18:16:37 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Stopping Docker Application Container Engine.
Aug 18 18:16:37 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:16:37.077194579Z" leve...'"
Aug 18 18:16:37 ip-172-31-44-54.ap-south-1.compute.internal dockerd[9231]: time="2021-08-18T18:16:37.078039048Z" leve...e"
Aug 18 18:16:37 ip-172-31-44-54.ap-south-1.compute.internal systemd[1]: Stopped Docker Application Container Engine.
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-44-54 ~]$
```

i-06114417791f3d64f (Docker)

Public IPs: 13.233.231.140 Private IPs: 172.31.44.54

**THANK YOU!!**