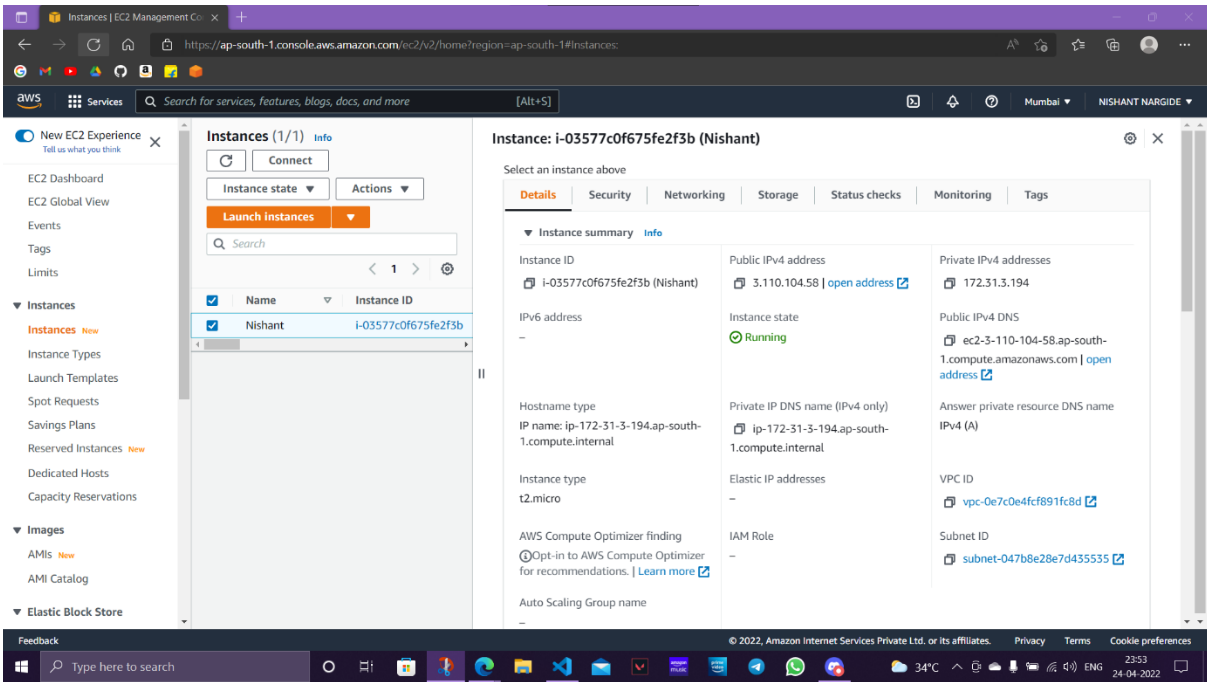
Assignment 2B **32 Nishant N**

1. Creating Instance on AWS.

Created a Instance of AWS and all Information about AWS

Example: ip address, port, private and public address, instance id etc.



☑ Nishant i-03577c0f675fe2f3b

Instance: i-03577c0f675fe2f3b (Nishant)

Select an instance above

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

▼ Instance summary Info

Instance ID
i-03577c0f675fe2f3b (Nishant)

Public IPv4 address
3.110.104.58 | open address

Private IPv4 addresses
172.31.3.194

IPv6 address
–

Instance state
Running

Public IPv4 DNS
ec2-3-110-104-58.ap-south-1.compute.amazonaws.com | open address

Hostname type
IP name: ip-172-31-3-194.ap-south-1.compute.internal

Private IP DNS name (IPv4 only)
ip-172-31-3-194.ap-south-1.compute.internal

Answer private resource DNS name
IPv4 (A)

Instance type
t2.micro

Elastic IP addresses
–

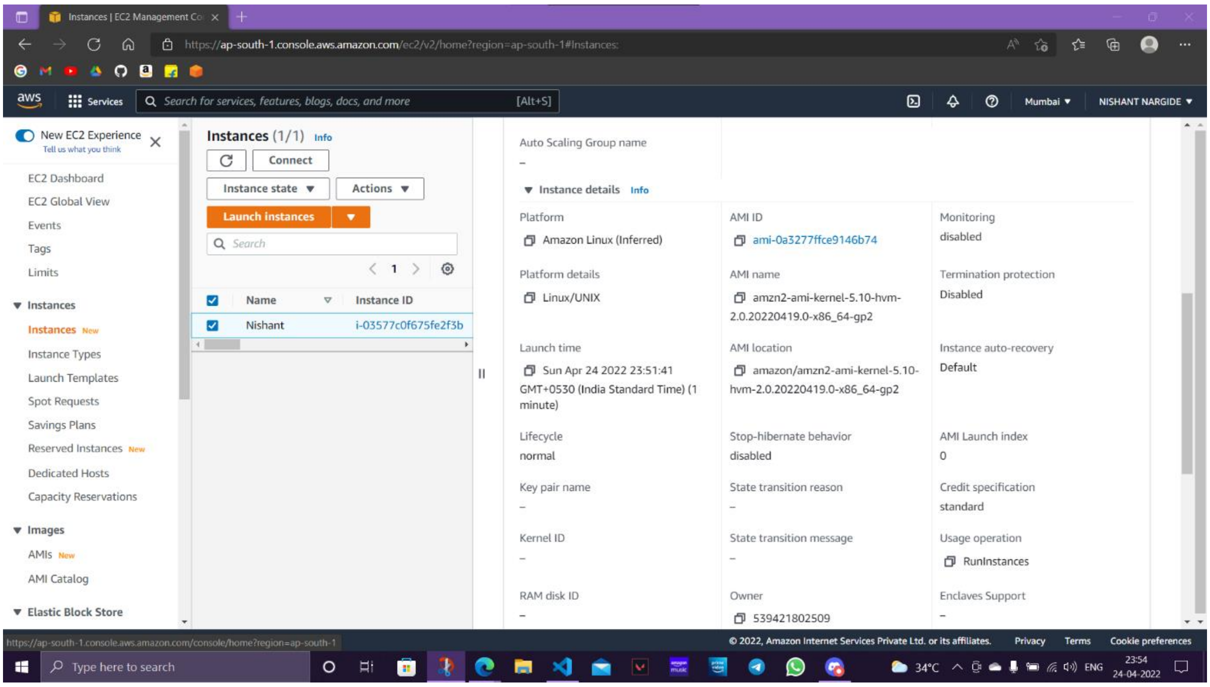
VPC ID
vpc-0e7c0e4fcf891fc8d

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

IAM Role
–

Subnet ID
subnet-047b8e28e7d435535

Auto Scaling Group name
–



☑ Nishant i-03577c0f675fe2f3b

Auto Scaling Group name
–

▼ Instance details Info

Platform
Amazon Linux (Inferred)

AMI ID
ami-0a3277ffce9146b74

Monitoring
disabled

Platform details
Linux/UNIX

AMI name
amzn2-ami-kernel-5.10-hvm-2.0.20220419.0-x86_64-gp2

Termination protection
Disabled

Launch time
Sun Apr 24 2022 23:51:41 GMT+0530 (India Standard Time) (1 minute)

AMI location
amazon/amzn2-ami-kernel-5.10-hvm-2.0.20220419.0-x86_64-gp2

Instance auto-recovery
Default

Lifecycle
normal

Stop-hibernate behavior
disabled

AMI Launch index
0

Key pair name
–

State transition reason
–

Credit specification
standard

Kernel ID
–

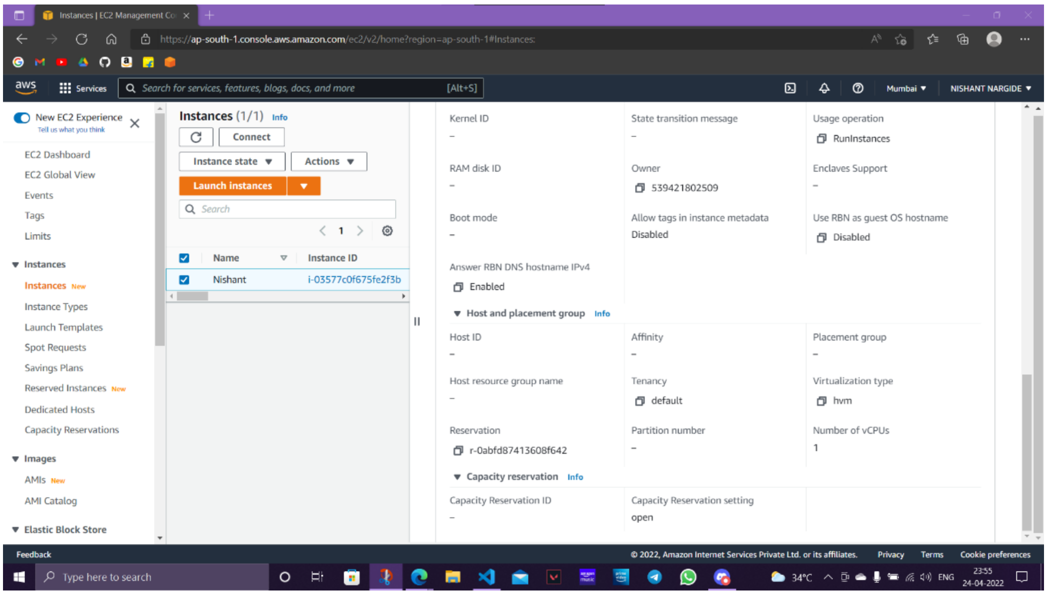
State transition message
–

Usage operation
RunInstances

RAM disk ID
–

Owner
539421802509

Enclaves Support
–



☑	Name	Instance ID
☑	Nishant	i-03577c0f675fe2f3b

Kernel ID
–

State transition message
–

Usage operation
RunInstances

RAM disk ID
–

Owner
539421802509

Enclaves Support
–

Boot mode
–

Allow tags in instance metadata
Disabled

Use RBN as guest OS hostname
Disabled

Answer RBN DNS hostname IPv4
Enabled

▼ Host and placement group Info

Host ID
–

Affinity
–

Placement group
–

Host resource group name
–

Tenancy
default

Virtualization type
hvm

Reservation
r-0abfd87413608f642

Partition number
–

Number of vCPUs
1

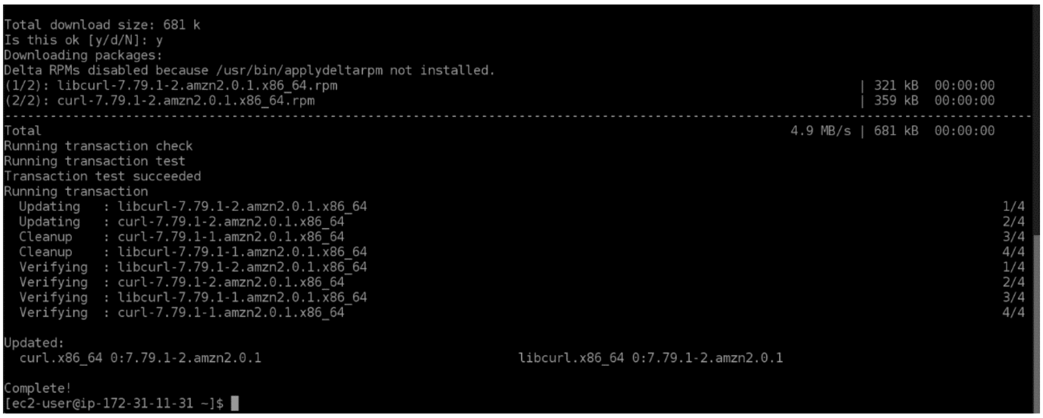
▼ Capacity reservation Info

Capacity Reservation ID
–

Capacity Reservation setting
open

2. Opening the Amazon Linux Console and updating the all package.

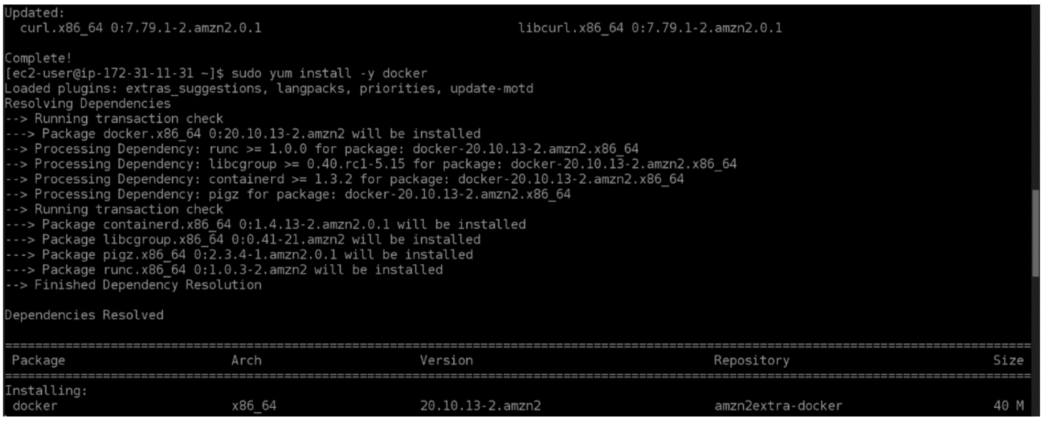
Command: sudo yum update –



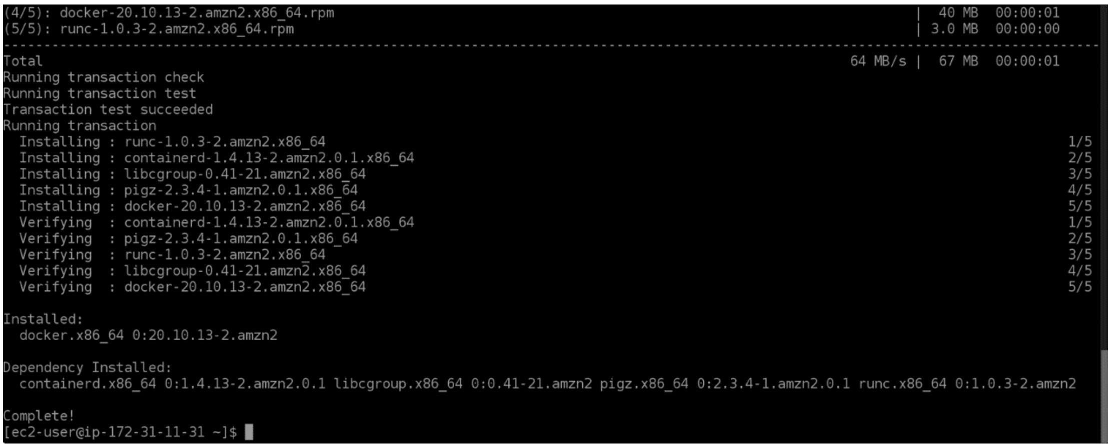
```
Total download size: 681 k
Is this ok [y/d/N]: y
Downloading packages:
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
(1/2): libcurl-7.79.1-2.amzn2.0.1.x86_64.rpm                                                          | 321 kB  00:00:00
(2/2): curl-7.79.1-2.amzn2.0.1.x86_64.rpm                                                             | 359 kB  00:00:00
----------------------------------------------------------------------------------------------------------------------------
Total                                                                                        4.9 MB/s | 681 kB  00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Updating   : libcurl-7.79.1-2.amzn2.0.1.x86_64                                                                         1/4
  Updating   : curl-7.79.1-2.amzn2.0.1.x86_64                                                                            2/4
  Cleanup    : curl-7.79.1-1.amzn2.0.1.x86_64                                                                            3/4
  Cleanup    : libcurl-7.79.1-1.amzn2.0.1.x86_64                                                                         4/4
  Verifying  : libcurl-7.79.1-2.amzn2.0.1.x86_64                                                                         1/4
  Verifying  : curl-7.79.1-2.amzn2.0.1.x86_64                                                                            2/4
  Verifying  : libcurl-7.79.1-1.amzn2.0.1.x86_64                                                                         3/4
  Verifying  : curl-7.79.1-1.amzn2.0.1.x86_64                                                                            4/4

Updated:
  curl.x86_64 0:7.79.1-2.amzn2.0.1                                  libcurl.x86_64 0:7.79.1-2.amzn2.0.1

Complete!
[ec2-user@ip-172-31-11-31 ~]$
```

3. Installing the docker.

Command: sudo yum install –y docker



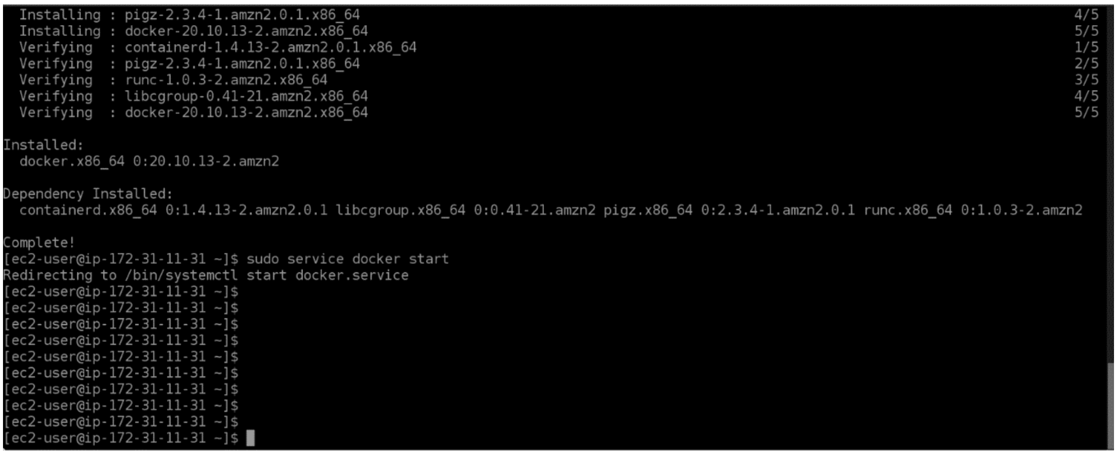
```
Updated:
  curl.x86_64 0:7.79.1-2.amzn2.0.1                                  libcurl.x86_64 0:7.79.1-2.amzn2.0.1

Complete!
[ec2-user@ip-172-31-11-31 ~]$ sudo yum install -y docker
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package docker.x86_64 0:20.10.13-2.amzn2 will be installed
--> Processing Dependency: runc >= 1.0.0 for package: docker-20.10.13-2.amzn2.x86_64
--> Processing Dependency: libcgroup >= 0.40.rc1-5.15 for package: docker-20.10.13-2.amzn2.x86_64
--> Processing Dependency: containerd >= 1.3.2 for package: docker-20.10.13-2.amzn2.x86_64
--> Processing Dependency: pigz for package: docker-20.10.13-2.amzn2.x86_64
--> Running transaction check
---> Package containerd.x86_64 0:1.4.13-2.amzn2.0.1 will be installed
---> Package libcgroup.x86_64 0:0.41-21.amzn2 will be installed
---> Package pigz.x86_64 0:2.3.4-1.amzn2.0.1 will be installed
---> Package runc.x86_64 0:1.0.3-2.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

============================================================================================================================
 Package                     Arch                     Version                               Repository                 Size
============================================================================================================================
Installing:
 docker                      x86_64                   20.10.13-2.amzn2                      amzn2extra-docker          40 M
```



```
(4/5): docker-20.10.13-2.amzn2.x86_64.rpm                                                          |  40 MB  00:00:01
(5/5): runc-1.0.3-2.amzn2.x86_64.rpm                                                               | 3.0 MB  00:00:00
--------------------------------------------------------------------------------------------------------------------------------------
Total                                                                                     64 MB/s |  67 MB  00:00:01
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : runc-1.0.3-2.amzn2.x86_64                                                                          1/5
  Installing : containerd-1.4.13-2.amzn2.0.1.x86_64                                                               2/5
  Installing : libcgroup-0.41-21.amzn2.x86_64                                                                     3/5
  Installing : pigz-2.3.4-1.amzn2.0.1.x86_64                                                                      4/5
  Installing : docker-20.10.13-2.amzn2.x86_64                                                                     5/5
  Verifying  : containerd-1.4.13-2.amzn2.0.1.x86_64                                                               1/5
  Verifying  : pigz-2.3.4-1.amzn2.0.1.x86_64                                                                      2/5
  Verifying  : runc-1.0.3-2.amzn2.x86_64                                                                          3/5
  Verifying  : libcgroup-0.41-21.amzn2.x86_64                                                                     4/5
  Verifying  : docker-20.10.13-2.amzn2.x86_64                                                                     5/5

Installed:
  docker.x86_64 0:20.10.13-2.amzn2

Dependency Installed:
  containerd.x86_64 0:1.4.13-2.amzn2.0.1 libcgroup.x86_64 0:0.41-21.amzn2 pigz.x86_64 0:2.3.4-1.amzn2.0.1 runc.x86_64 0:1.0.3-2.amzn2

Complete!
[ec2-user@ip-172-31-11-31 ~]$
```

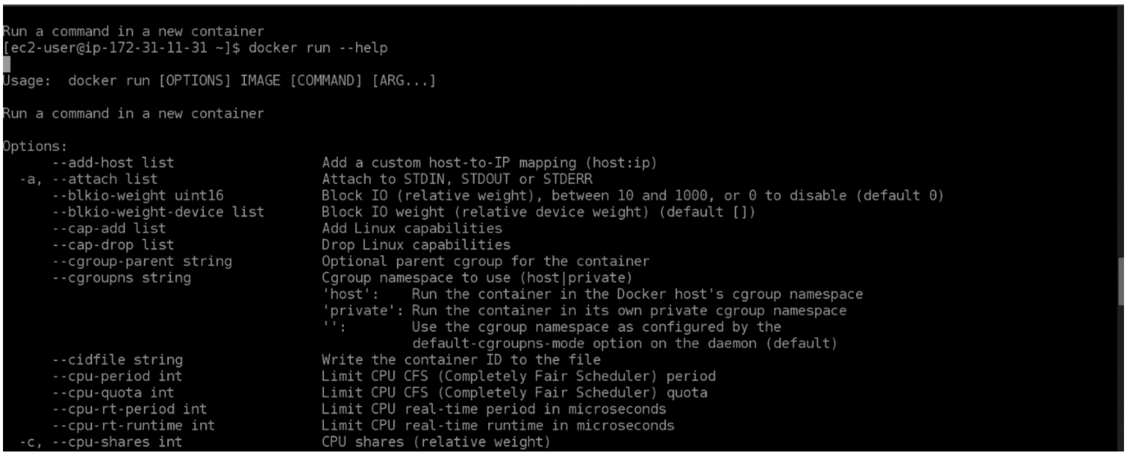
4. Starting the Docker

Command: sudo service docker start



```
  Installing : pigz-2.3.4-1.amzn2.0.1.x86_64                                                                      4/5
  Installing : docker-20.10.13-2.amzn2.x86_64                                                                     5/5
  Verifying  : containerd-1.4.13-2.amzn2.0.1.x86_64                                                               1/5
  Verifying  : pigz-2.3.4-1.amzn2.0.1.x86_64                                                                      2/5
  Verifying  : runc-1.0.3-2.amzn2.x86_64                                                                          3/5
  Verifying  : libcgroup-0.41-21.amzn2.x86_64                                                                     4/5
  Verifying  : docker-20.10.13-2.amzn2.x86_64                                                                     5/5

Installed:
  docker.x86_64 0:20.10.13-2.amzn2

Dependency Installed:
  containerd.x86_64 0:1.4.13-2.amzn2.0.1 libcgroup.x86_64 0:0.41-21.amzn2 pigz.x86_64 0:2.3.4-1.amzn2.0.1 runc.x86_64 0:1.0.3-2.amzn2

Complete!
[ec2-user@ip-172-31-11-31 ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
[ec2-user@ip-172-31-11-31 ~]$
[ec2-user@ip-172-31-11-31 ~]$
[ec2-user@ip-172-31-11-31 ~]$
[ec2-user@ip-172-31-11-31 ~]$
[ec2-user@ip-172-31-11-31 ~]$
[ec2-user@ip-172-31-11-31 ~]$
[ec2-user@ip-172-31-11-31 ~]$
[ec2-user@ip-172-31-11-31 ~]$
[ec2-user@ip-172-31-11-31 ~]$
[ec2-user@ip-172-31-11-31 ~]$
```

5.Command: docker run –help



```
Run a command in a new container
[ec2-user@ip-172-31-11-31 ~]$ docker run --help

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

Run a command in a new container

Options:
      --add-host list                  Add a custom host-to-IP mapping (host:ip)
  -a, --attach list                    Attach to STDIN, STDOUT or STDERR
      --blkio-weight uint16            Block IO (relative weight), between 10 and 1000, or 0 to disable (default 0)
      --blkio-weight-device list       Block IO weight (relative device weight) (default [])
      --cap-add list                   Add Linux capabilities
      --cap-drop list                  Drop Linux capabilities
      --cgroup-parent string           Optional parent cgroup for the container
      --cgroupns string                Cgroup namespace to use (host|private)
                                       'host':    Run the container in the Docker host's cgroup namespace
                                       'private': Run the container in its own private cgroup namespace
                                       '':        Use the cgroup namespace as configured by the
                                                  default-cgroupns-mode option on the daemon (default)
      --cidfile string                 Write the container ID to the file
      --cpu-period int                 Limit CPU CFS (Completely Fair Scheduler) period
      --cpu-quota int                  Limit CPU CFS (Completely Fair Scheduler) quota
      --cpu-rt-period int              Limit CPU real-time period in microseconds
      --cpu-rt-runtime int             Limit CPU real-time runtime in microseconds
  -c, --cpu-shares int                 CPU shares (relative weight)
```