

Assignment 2.b

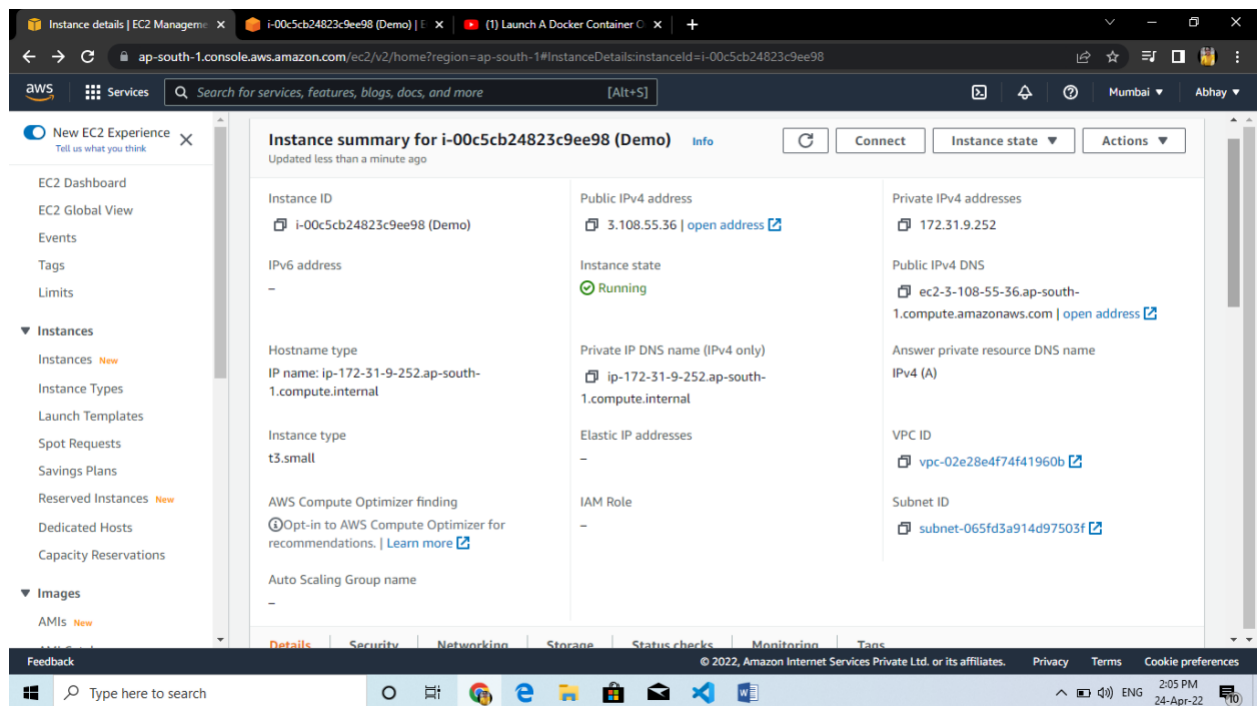
Name- Mohd Muneer Khan

Roll no -26

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 .



Instance details | EC2 Management console | i-00c5cb24823c9ee98 (Demo) | (1) Launch A Docker Container

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#InstanceDetails:instanceId=i-00c5cb24823c9ee98

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Mumbai Abhay

New EC2 Experience Tell us what you think

EC2 Dashboard
EC2 Global View
Events
Tags
Limits

Instances **New**
Instances Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances **New**
Dedicated Hosts
Capacity Reservations

Images
AMIs **New**

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance details Info

Platform Amazon Linux (Inferred)	AMI ID ami-0a3277f9ce9146b74	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 00:38:58 GMT-0700 (Pacific Daylight Time) (about 13 hours)	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 Docker-user	State transition reason -	Credit specification standard
Kernel ID -	State transition message Client.UserInitiatedShutdown: User initiated shutdown	Usage operation RunInstances

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Instance details | EC2 Management console | i-00c5cb24823c9ee98 (Demo) | (1) Launch A Docker Container

ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#InstanceDetails:instanceId=i-00c5cb24823c9ee98

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AMIs **New**

RAM disk ID
-

Boot mode
-

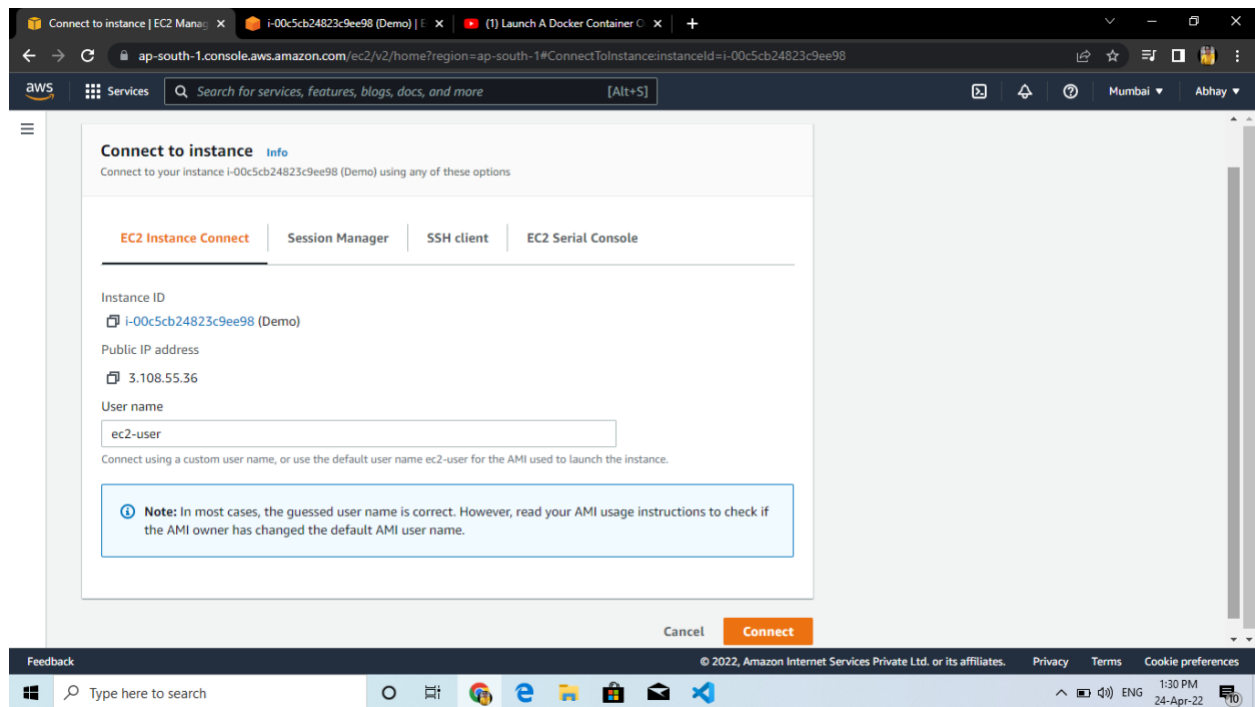
Answer RBN DNS hostname IPv4
Enabled

▼ Host and placement group Info

Host ID -	Affinity -	Enclaves Support Disabled
Host resource group name -	Tenancy default	Use RBN as guest OS hostname Disabled
Reservation r-0f45d1818c06248b8	Partition number -	Virtualization type hvm
Capacity reservation -	Capacity Reservation setting open	Number of vCPUs 2

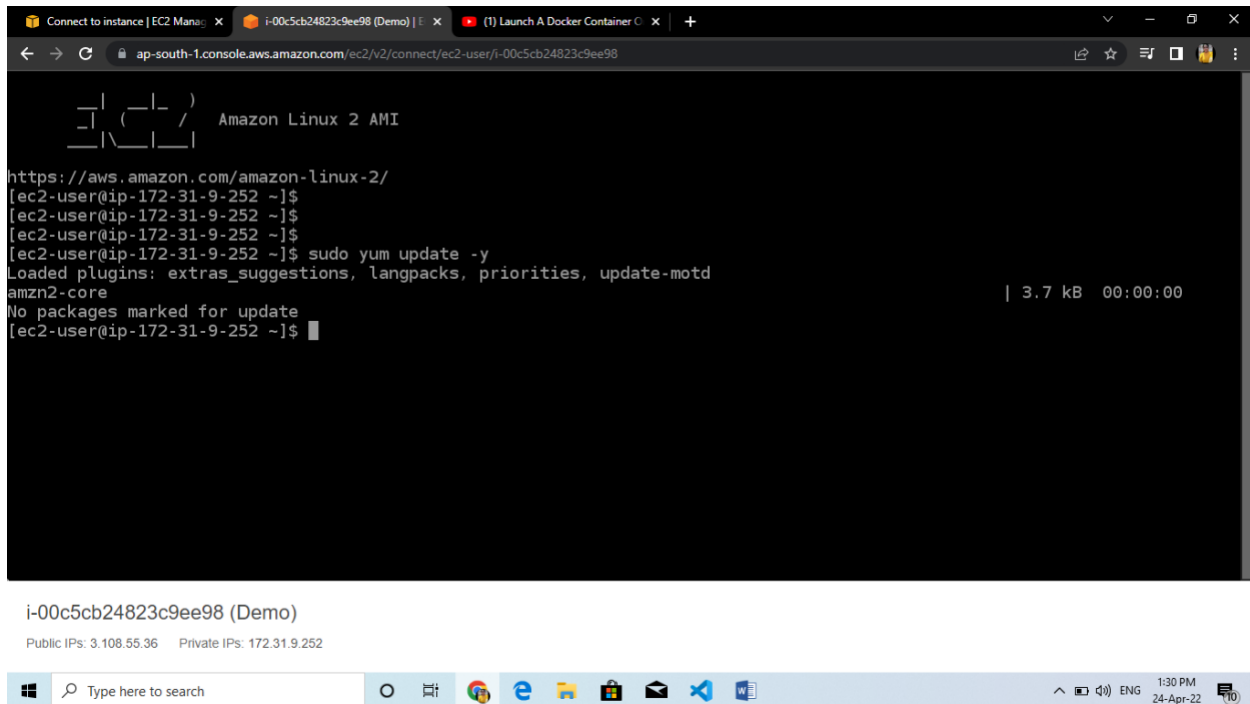
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2. Opening the Amazon Linux Console and updating the all package.

Command : sudo yum update -y



The screenshot shows a web browser window with the AWS Management Console. The active tab is titled "i-00c5cb24823c9ee98 (Demo)". The browser address bar shows the URL "ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-00c5cb24823c9ee98". The terminal window displays the following text:

```
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-9-252 ~]$
[ec2-user@ip-172-31-9-252 ~]$
[ec2-user@ip-172-31-9-252 ~]$
[ec2-user@ip-172-31-9-252 ~]$ sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
No packages marked for update
[ec2-user@ip-172-31-9-252 ~]$
```

Below the terminal window, the instance ID "i-00c5cb24823c9ee98 (Demo)" is displayed, along with its public and private IP addresses: "Public IPs: 3.108.55.36 Private IPs: 172.31.9.252". At the bottom of the browser window, the Windows taskbar is visible, showing the search bar and various application icons.

3. Installing the docker.

Command : sudo yum install -y docker

Connect to instance | EC2 Manag...i-00c5cb24823c9ee98 (Demo) | (1) Launch A Docker Container

ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-00c5cb24823c9ee98

```
[ec2-user@ip-172-31-9-252 ~]$ sudo yum install -y docker
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package docker.x86_64 0:20.10.7-5.amzn2 will be installed
--> Processing Dependency: runc >= 1.0.0 for package: docker-20.10.7-5.amzn2.x86_64
--> Processing Dependency: libcgroup >= 0.40.rc1-5.15 for package: docker-20.10.7-5.amzn2.x86_64
--> Processing Dependency: containerd >= 1.3.2 for package: docker-20.10.7-5.amzn2.x86_64
--> Processing Dependency: pigz for package: docker-20.10.7-5.amzn2.x86_64
--> Running transaction check
--> Package containerd.x86_64 0:1.4.6-8.amzn2 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 0:1.0.0-2.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                Arch             Version           Repository         Size
=====
Installing:
docker                  x86_64           20.10.7-5.amzn2   amzn2extra-docker  42 M
Installing for dependencies:
containerd              x86_64           1.4.6-8.amzn2     amzn2extra-docker  24 M
libcgroup               x86_64           0.41-21.amzn2     amzn2-core         66 k
=====
```

i-00c5cb24823c9ee98 (Demo)

Public IPs: 3.108.55.36 Private IPs: 172.31.9.252

Connect to instance | EC2 Manag...i-00c5cb24823c9ee98 (Demo) | (1) Launch A Docker Container

ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-00c5cb24823c9ee98

```
Dependencies Resolved

=====
Package                Arch             Version           Repository         Size
=====
Installing:
docker                  x86_64           20.10.7-5.amzn2   amzn2extra-docker  42 M
Installing for dependencies:
containerd              x86_64           1.4.6-8.amzn2     amzn2extra-docker  24 M
libcgroup               x86_64           0.41-21.amzn2     amzn2-core         66 k
pigz                    x86_64           2.3.4-1.amzn2.0.1 amzn2-core         81 k
runc                    x86_64           1.0.0-2.amzn2     amzn2extra-docker  3.3 M
=====

Transaction Summary
=====
Install 1 Package (+4 Dependent packages)

Total download size: 69 M
Installed size: 285 M
Downloading packages:
(1/5): libcgroup-0.41-21.amzn2.x86_64.rpm | 66 kB 00:00:00
(2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm | 81 kB 00:00:00
(3/5): containerd-1.4.6-8.amzn2.x86_64.rpm | 24 MB 00:00:00
(4/5): runc-1.0.0-2.amzn2.x86_64.rpm | 3.3 MB 00:00:00
(5/5): docker-20.10.7-5.amzn2.x86_64.rpm | 42 MB 00:00:00
=====
```

i-00c5cb24823c9ee98 (Demo)

Public IPs: 3.108.55.36 Private IPs: 172.31.9.252

```
Transaction Summary
=====
Install 1 Package (+4 Dependent packages)

Total download size: 69 M
Installed size: 285 M
Downloading packages:
(1/5): libcgrou-0.41-21.amzn2.x86_64.rpm | 66 kB 00:00:00
(2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm | 81 kB 00:00:00
(3/5): containerd-1.4.6-8.amzn2.x86_64.rpm | 24 MB 00:00:00
(4/5): runc-1.0.0-2.amzn2.x86_64.rpm | 3.3 MB 00:00:00
(5/5): docker-20.10.7-5.amzn2.x86_64.rpm | 42 MB 00:00:00
-----
Total | 98 MB/s | 69 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : runc-1.0.0-2.amzn2.x86_64 1/5
  Installing : containerd-1.4.6-8.amzn2.x86_64 2/5
  Installing : libcgrou-0.41-21.amzn2.x86_64 3/5
  Installing : pigz-2.3.4-1.amzn2.0.1.x86_64 4/5
  Installing : docker-20.10.7-5.amzn2.x86_64 5/5
  Verifying : docker-20.10.7-5.amzn2.x86_64 1/5
  Verifying : containerd-1.4.6-8.amzn2.x86_64 2/5
  Verifying : runc-1.0.0-2.amzn2.x86_64 3/5
```

i-00c5cb24823c9ee98 (Demo)

Public IPs: 3.108.55.36 Private IPs: 172.31.9.252



```
Total | 98 MB/s | 69 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : runc-1.0.0-2.amzn2.x86_64 1/5
  Installing : containerd-1.4.6-8.amzn2.x86_64 2/5
  Installing : libcgrou-0.41-21.amzn2.x86_64 3/5
  Installing : pigz-2.3.4-1.amzn2.0.1.x86_64 4/5
  Installing : docker-20.10.7-5.amzn2.x86_64 5/5
  Verifying : docker-20.10.7-5.amzn2.x86_64 1/5
  Verifying : containerd-1.4.6-8.amzn2.x86_64 2/5
  Verifying : runc-1.0.0-2.amzn2.x86_64 3/5
  Verifying : pigz-2.3.4-1.amzn2.0.1.x86_64 4/5
  Verifying : libcgrou-0.41-21.amzn2.x86_64 5/5

Installed:
  docker.x86_64 0:20.10.7-5.amzn2

Dependency Installed:
  containerd.x86_64 0:1.4.6-8.amzn2 libcgrou.x86_64 0:0.41-21.amzn2 pigz.x86_64 0:2.3.4-1.amzn2.0.1
  runc.x86_64 0:1.0.0-2.amzn2

Complete!
[ec2-user@ip-172-31-9-252 ~]$
```

i-00c5cb24823c9ee98 (Demo)

Public IPs: 3.108.55.36 Private IPs: 172.31.9.252



4. Starting the Docker

Command: `sudo service docker start`

```
Connect to instance | EC2 Manag... x i-00c5cb24823c9ee98 (Demo) | x (1) Launch A Docker Container... x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-00c5cb24823c9ee98
[ec2-user@ip-172-31-9-252 ~]$ sudo service docker start
Redirecting to /bin/systemctl start docker.service
[ec2-user@ip-172-31-9-252 ~]$
[ec2-user@ip-172-31-9-252 ~]$
[ec2-user@ip-172-31-9-252 ~]$
[ec2-user@ip-172-31-9-252 ~]$
```

i-00c5cb24823c9ee98 (Demo)

Public IPs: 3.108.55.36 Private IPs: 172.31.9.252



Command : docker run --help

```
Connect to instance | EC2 Manag... x i-00c5cb24823c9ee98 (Demo) | x (1) Launch A Docker Container... x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-00c5cb24823c9ee98
tp://%2Fvar%2Frun%2Fdocker.sock/v1.24/containers/create": dial unix /var/run/docker.sock: connect: permission denied.
See 'docker run --help'.
[ec2-user@ip-172-31-9-252 ~]$ 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
```

i-00c5cb24823c9ee98 (Demo)

Public IPs: 3.108.55.36 Private IPs: 172.31.9.252



```
Connect to instance | EC2 Manag... x i-00c5cb24823c9ee98 (Demo) | (1) Launch A Docker Container x +
ap-south-1.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-00c5cb24823c9ee98

--privileged          Give extended privileges to this container
-p, --publish list    Publish a container's port(s) to the host
-P, --publish-all    Publish all exposed ports to random ports
--pull string         Pull image before running ("always"|"missing"|"never") (default "missing")
--read-only           Mount the container's root filesystem as read only
--restart string      Restart policy to apply when a container exits (default "no")
--rm                 Automatically remove the container when it exits
--runtime string      Runtime to use for this container
--security-opt list   Security Options
--shm-size bytes      Size of /dev/shm
--sig-proxy           Proxy received signals to the process (default true)
--stop-signal string  Signal to stop a container (default "SIGTERM")
--stop-timeout int    Timeout (in seconds) to stop a container
--storage-opt list    Storage driver options for the container
--sysctl map          Sysctl options (default map[])
--tmpfs list          Mount a tmpfs directory
-t, --tty            Allocate a pseudo-TTY
--ulimit ulimit       Ulimit options (default [])
-u, --user string     Username or UID (format: <name|uid>[:<group|gid>])
--usersns string      User namespace to use
--uts string          UTS namespace to use
-v, --volume list     Bind mount a volume
--volume-driver string Optional volume driver for the container
--volumes-from list  Mount volumes from the specified container(s)
-w, --workdir string  Working directory inside the container

[ec2-user@ip-172-31-9-252 ~]$
```

i-00c5cb24823c9ee98 (Demo)

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