Day 2 assignment - devops
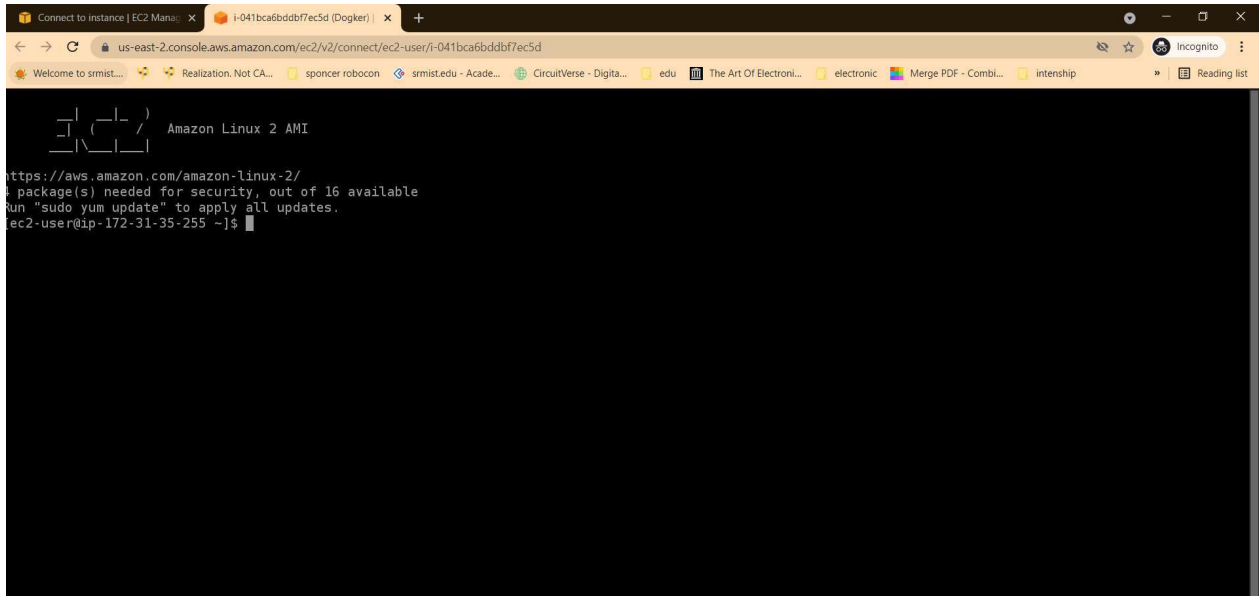

My name is jubin kurian biju
My Email

My github id is @jubin123
My github assignment link is https://github.com/jubin123/DevOpsEssentials.git

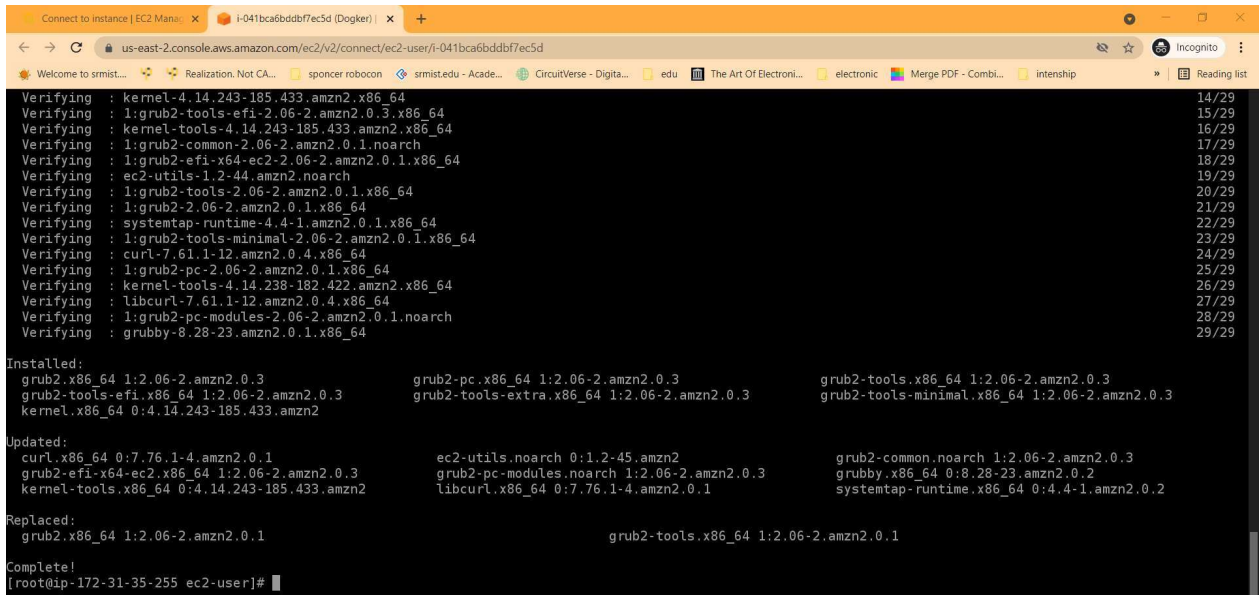……
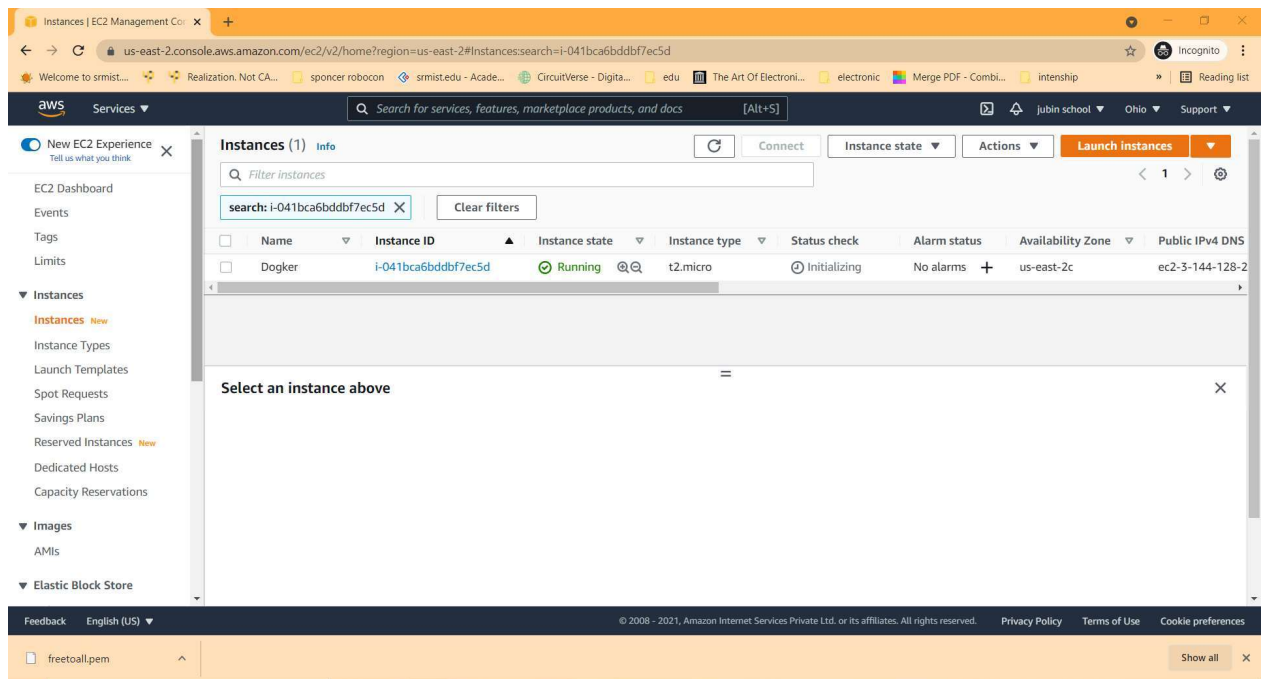
i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Sudo yum update

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Yum install docker


```
Is this ok [y/d/N]: y
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-1.4.6-2.amzn2.x86_64.rpm                                   | 24 MB  00:00:00
(4/5): docker-20.10.4-1.amzn2.x86_64.rpm                                     | 32 MB  00:00:00
(5/5): runc-1.0.0-1.amzn2.x86_64.rpm                                         | 3.3 MB  00:00:00
--------------------------------------------------------------------------------------------------
Total                                                                62 MB/s |  59 MB  00:00:00
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 : libcgroup-0.41-21.amzn2.x86_64                                         3/5
  Installing : pigz-2.3.4-1.amzn2.0.1.x86_64                                          4/5
  Installing : docker-20.10.4-1.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  : libcgroup-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        libcgroup.x86_64 0:0.41-21.amzn2        pigz.x86_64 0:2.3.4-1.amzn2.0.1        runc.x86_64 0:1.0.0-1.amzn2

Complete!
[root@ip-172-31-35-255 ec2-user]#
```

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Docker
Docker --version


```
load         Load an image from a tar archive or STDIN
login        Log in to a Docker registry
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/
[root@ip-172-31-35-255 ec2-user]# docker --version
Docker version 20.10.4, build d3cb89e
[root@ip-172-31-35-255 ec2-user]#
```
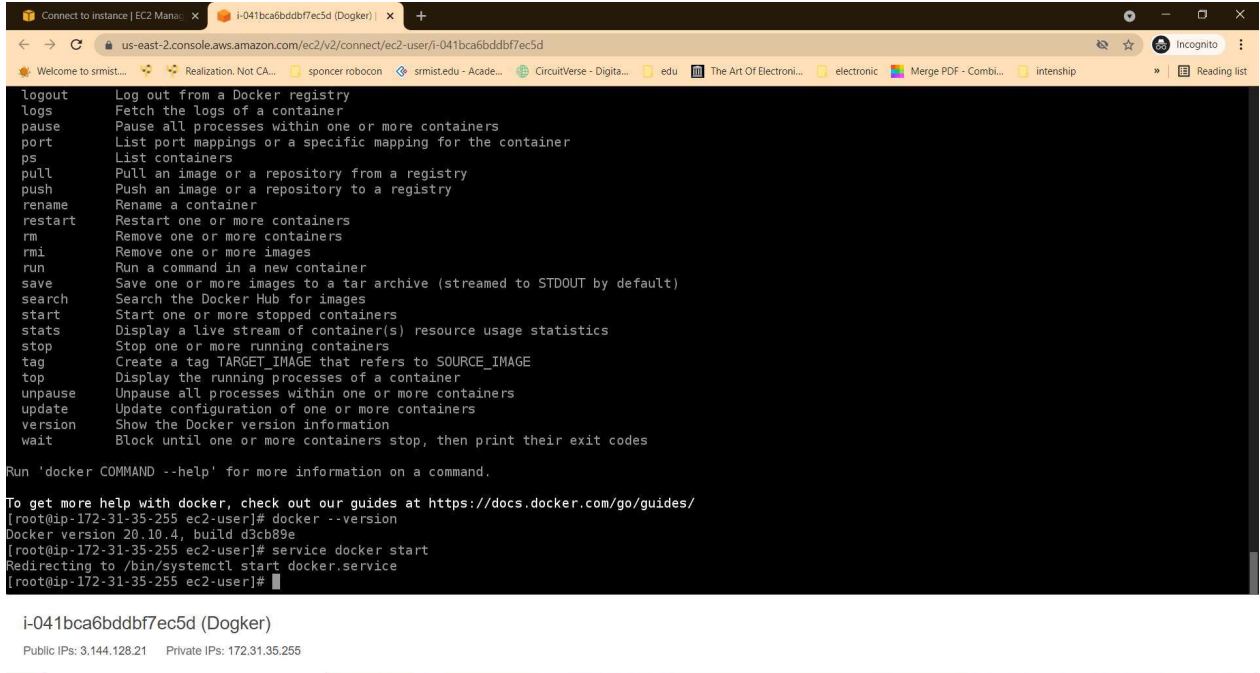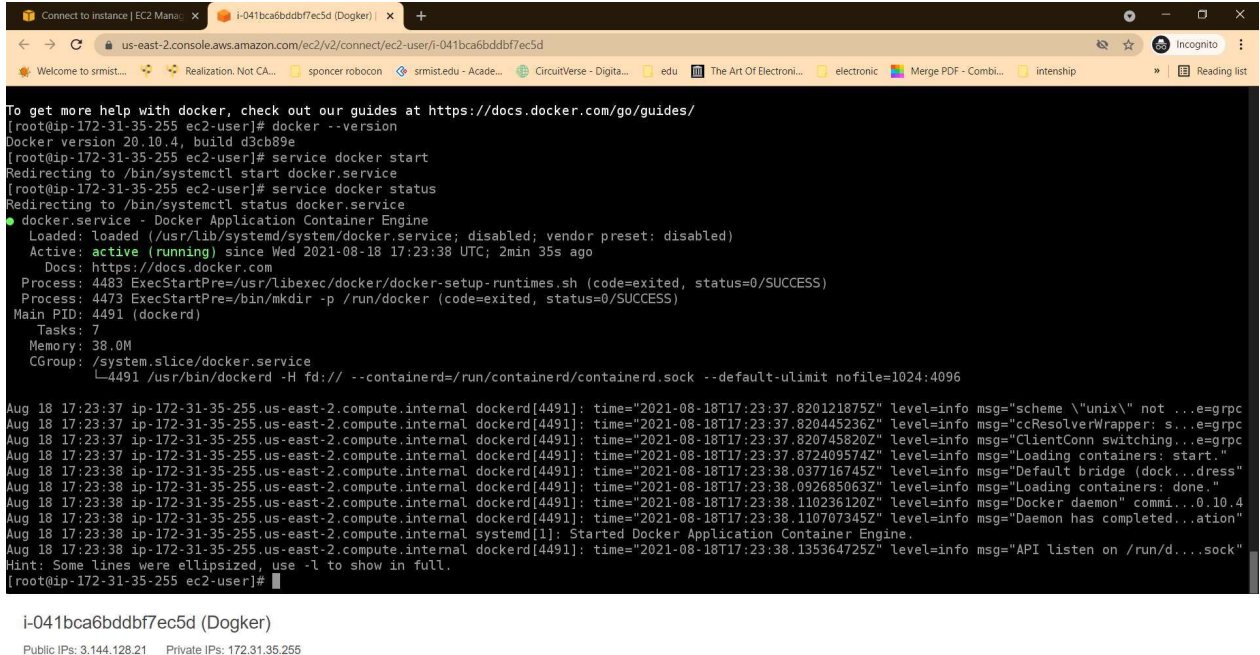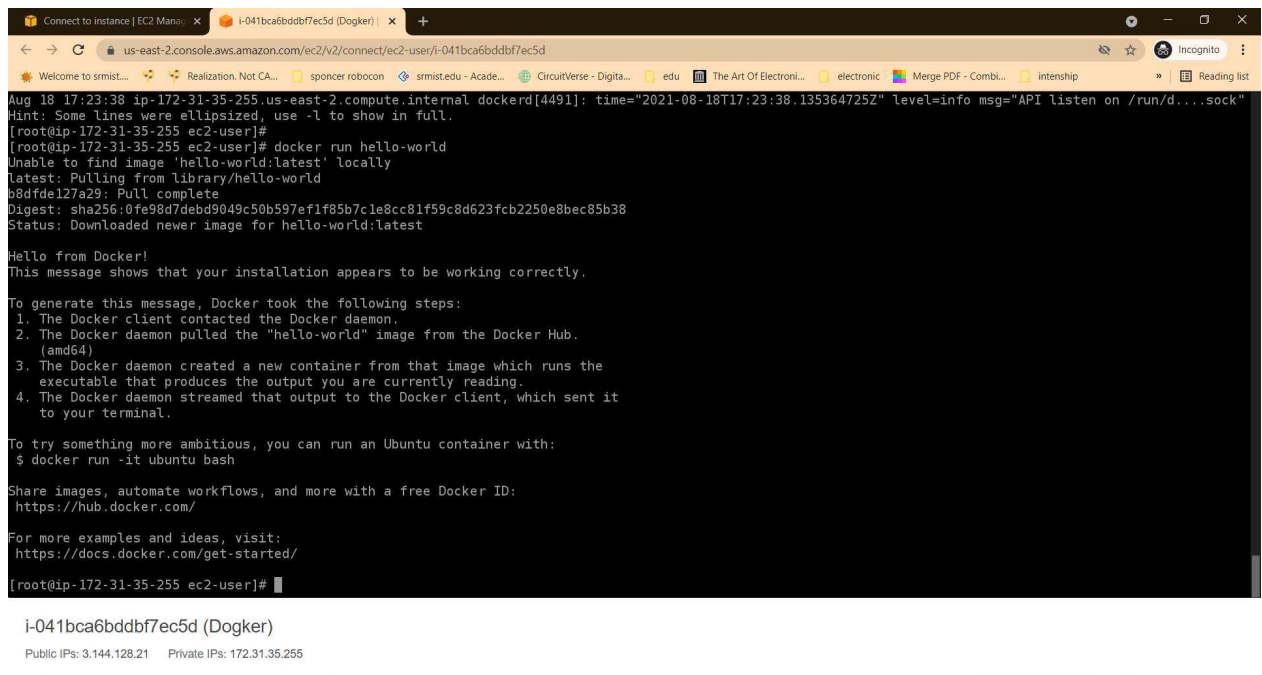
i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Service docker start


```
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
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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/
[root@ip-172-31-35-255 ec2-user]# docker --version
Docker version 20.10.4, build d3cb89e
[root@ip-172-31-35-255 ec2-user]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@ip-172-31-35-255 ec2-user]#
```

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Service docker status


```
To get more help with docker, check out our guides at https://docs.docker.com/go/guides/
[root@ip-172-31-35-255 ec2-user]# docker --version
Docker version 20.10.4, build d3cb89e
[root@ip-172-31-35-255 ec2-user]# service docker start
Redirecting to /bin/systemctl start docker.service
[root@ip-172-31-35-255 ec2-user]# 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 17:23:38 UTC; 2min 35s ago
     Docs: https://docs.docker.com
  Process: 4483 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
  Process: 4473 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
 Main PID: 4491 (dockerd)
    Tasks: 7
   Memory: 38.0M
   CGroup: /system.slice/docker.service
           └─4491 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nofile=1024:4096

Aug 18 17:23:37 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:37.820121875Z" level=info msg="scheme \"unix\" not ...e=grpc
Aug 18 17:23:37 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:37.820445236Z" level=info msg="ccResolverWrapper: s...e=grpc
Aug 18 17:23:37 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:37.820745820Z" level=info msg="ClientConn switching...e=grpc
Aug 18 17:23:37 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:37.872409574Z" level=info msg="Loading containers: start."
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.037716745Z" level=info msg="Default bridge (dock...dress"
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.092685063Z" level=info msg="Loading containers: done."
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.110236120Z" level=info msg="Docker daemon" commi...0.10.4
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.110707345Z" level=info msg="Daemon has completed...ation"
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.135364725Z" level=info msg="API listen on /run/d....sock"
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-35-255 ec2-user]#
```

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Docker run hello-world

```
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.135364725Z" level=info msg="API listen on /run/d....sock"
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-35-255 ec2-user]#
[root@ip-172-31-35-255 ec2-user]# 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/

[root@ip-172-31-35-255 ec2-user]#
```

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Docker run -it ubuntu bash

```
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.
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    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/

[root@ip-172-31-35-255 ec2-user]# 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@da38945f1f68: /root@da38945f1f68:/#
```

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Docker service stop


```
The service command supports only basic LSB actions (start, stop, restart, try-restart, reload, force-reload, status). For other actions, please try to use sy
stemctl.
[root@ip-172-31-35-255 ec2-user]# 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 17:23:38 UTC; 21min ago
     Docs: https://docs.docker.com
  Process: 4483 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
  Process: 4473 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
 Main PID: 4491 (dockerd)
    Tasks: 9
   Memory: 139.2M
   CGroup: /system.slice/docker.service
           └─4491 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock --default-ulimit nofile=1024:4096

Aug 18 17:23:37 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:37.820445236Z" level=info msg="ccResolverWrapper: s...e=grpc
Aug 18 17:23:37 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:37.820745820Z" level=info msg="ClientConn switching...e=grpc
Aug 18 17:23:37 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:37.872409574Z" level=info msg="Loading containers: start."
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.037716745Z" level=info msg="Default bridge (dock...dress"
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.092685063Z" level=info msg="Loading containers: done."
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.110236120Z" level=info msg="Docker daemon" commi...0.10.4
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.110707345Z" level=info msg="Daemon has completed...ation"
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.135364725Z" level=info msg="API listen on /run/d...sock"
Aug 18 17:30:39 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:30:39.915425354Z" level=info msg="ignoring event" cont...elete"
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-35-255 ec2-user]# service docker stop
Redirecting to /bin/systemctl stop docker.service
Warning: Stopping docker.service, but it can still be activated by:
  docker.socket
[root@ip-172-31-35-255 ec2-user]#
```

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Docker volume create
Docker volume create


```
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: inactive (dead) since Wed 2021-08-18 17:45:53 UTC; 1min 38s ago
     Docs: https://docs.docker.com
  Process: 4491 ExecStart=/usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock $OPTIONS $DOCKER_STORAGE_OPTIONS $DOCKER_ADD_RUNTIMES (code=e
xited, status=0/SUCCESS)
  Process: 4483 ExecStartPre=/usr/libexec/docker/docker-setup-runtimes.sh (code=exited, status=0/SUCCESS)
  Process: 4473 ExecStartPre=/bin/mkdir -p /run/docker (code=exited, status=0/SUCCESS)
 Main PID: 4491 (code=exited, status=0/SUCCESS)

Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.110236120Z" level=info msg="Docker daemon" commi...0.10.4
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.110707345Z" level=info msg="Daemon has completed...ation"
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal systemd[1]: Started Docker Application Container Engine.
Aug 18 17:23:38 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:23:38.135364725Z" level=info msg="API listen on /run/d...sock"
Aug 18 17:30:39 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:30:39.915425354Z" level=info msg="ignoring event" cont...elete"
Aug 18 17:45:53 ip-172-31-35-255.us-east-2.compute.internal systemd[1]: Stopping Docker Application Container Engine...
Aug 18 17:45:53 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:45:53.646652600Z" level=info msg="Processing signal 't...ated'"
Aug 18 17:45:53 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:45:53.699020831Z" level=info msg="ignoring event" cont...elete"
Aug 18 17:45:53 ip-172-31-35-255.us-east-2.compute.internal dockerd[4491]: time="2021-08-18T17:45:53.772436666Z" level=info msg="Daemon shutdown complete"
Aug 18 17:45:53 ip-172-31-35-255.us-east-2.compute.internal systemd[1]: Stopped Docker Application Container Engine.
Hint: Some lines were ellipsized, use -l to show in full.
[root@ip-172-31-35-255 ec2-user]# docker volume create
2850872d86f4d487890e549e772bbc8815851b1534111091142f70d1ee0c29ec
[root@ip-172-31-35-255 ec2-user]# docker volume create
7d3fc469e7658a36b61718b7680b6002a9bebc9ee0413c31d53b48fb3ada8aec
[root@ip-172-31-35-255 ec2-user]# docker volume inspect
"docker volume inspect" requires at least 1 argument.
See 'docker volume inspect --help'.

Usage:  docker volume inspect [OPTIONS] VOLUME [VOLUME...]

Display detailed information on one or more volumes
[root@ip-172-31-35-255 ec2-user]#
```
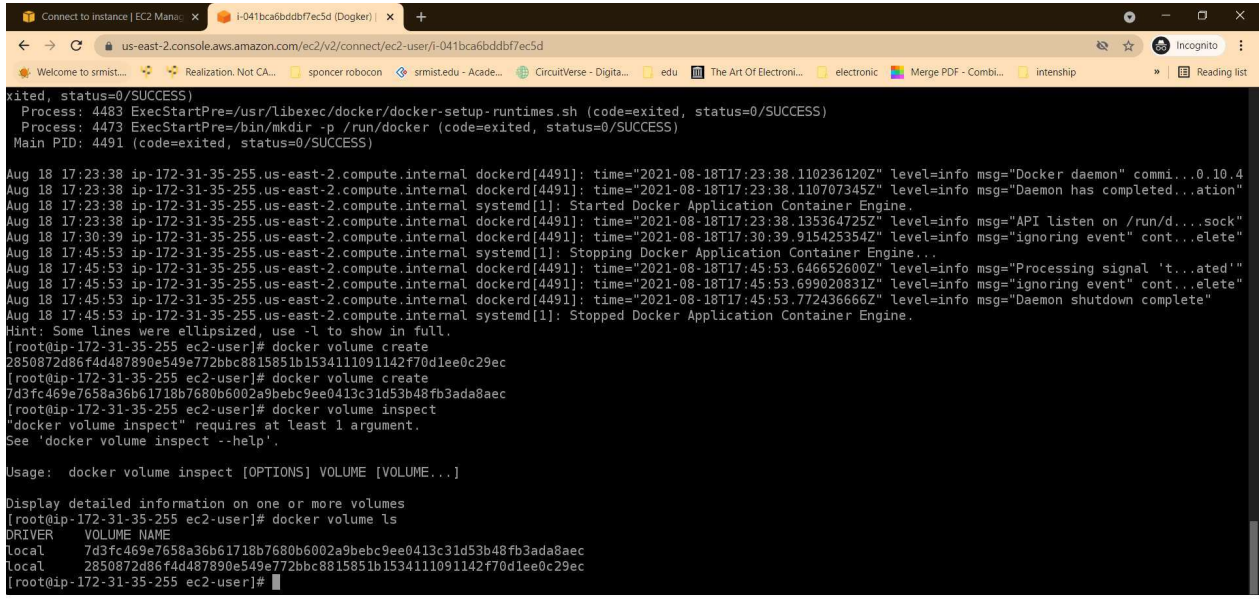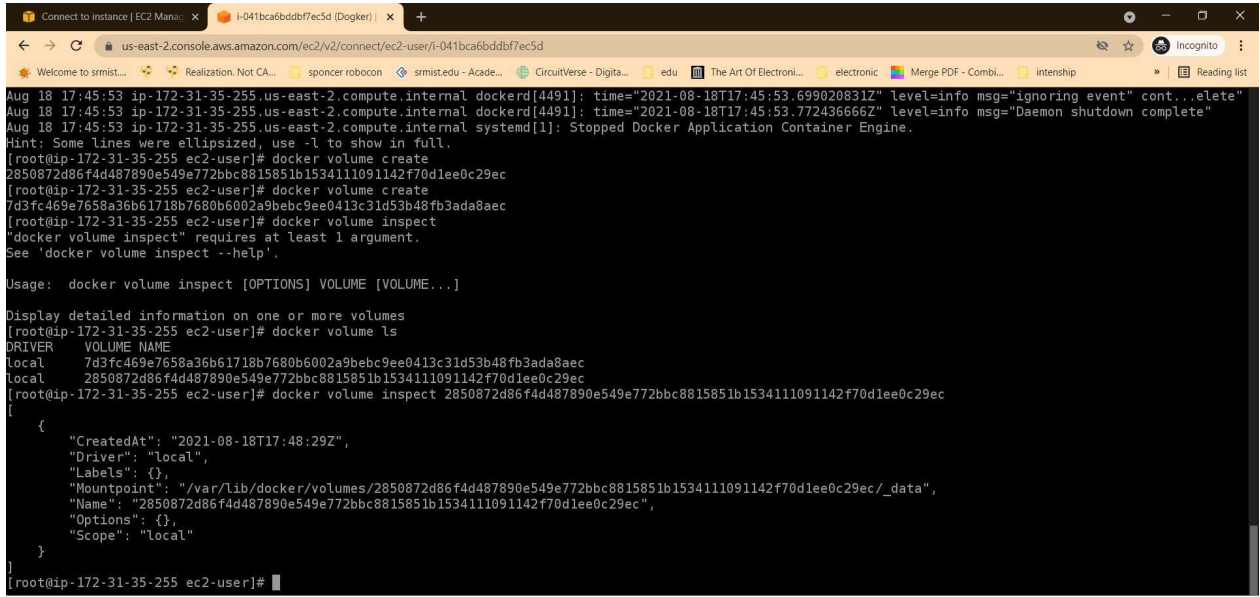
i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Docker volume ls

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Docker volume inspect <docker id>

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Docker volume rn <docker id>

Docker volume ls

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255

Service docker stop

i-041bca6bddbf7ec5d (Dogker)

Public IPs: 3.144.128.21   Private IPs: 172.31.35.255