## **DevOps Essentials Assignment 2**

1. Create an AWS EC2 instance.

V	Name	▽	Instance ID	Instance state	Instance type	⊽	Status check	Alarm status	Availability Zone   ▽	Public IPv4 DNS
V	RedhatLinux		i-Oce8f2fdf15c7eea2	⊗ Running  ⊕ ⊗	t2.micro		=	No alarms +	us-east-2c	ec2-52-14-157-1
(										<b>)</b>

2. sudo yum update

3. sudo yum install docker

4. docker –version

```
[ec2-user@ip-172-31-33-142 ~]$ docker --version
Emulate Docker CLI using podman. Create /etc/containers/nodocker to quiet msg.
podman version 3.2.3
[ec2-user@ip-172-31-33-142 ~]$
```

5. service docker start

[ec2-user@ip-1/2-31-44-91 ~]\$ sudo service docker start Redirecting to /bin/systemctl start docker.service [ec2-user@ip-172-31-44-91 ~]\$ ■

6. service docker status

[root@ip-172-31-44-91 ec2-user]# service docker status
Redirecting to /bin/systemctl status docker.service
p docker.service - Docker Application Container Engine
Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
Active: active (running) since Sun 2021-08-15 15:53:52 UTC; 18min ago

7. docker run hello-world

[root@ip-172-31-44-91 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.

8. docker run -it ubuntu bash

```
[root@ip-172-31-44-91 ec2-user]# docker run -it ubuntu bash
Jnable to find image 'ubuntu:latest' locally
Latest: Pulling from library/ubuntu
16ec32c2132b: Pull complete
Digest: sha256:82becede498899ec668628e7cb0ad87b6e1c371cb8a1e597d83a47fac21d6af3
Status: Downloaded newer image for ubuntu:latest

pot@3a8b27afd009: /root@3a8b27afd009:/#
pot@3a8b27afd009: /root@3a8b27afd009:/#
pot@3a8b27afd009: /root@3a8b27afd009:/#
pot@3a8b27afd009: /root@3a8b27afd009:/#
```

9. docker volume create

[root@ip-172-31-44-91 ec2-user]# docker volume create pa9e210f463bd90e24be47df119d68f7199f41ede8c4a7b28e5fd4d6ae6d012a

10. docker volume ls

```
root@ip-172-31-44-91 ec2-user]# docker volume ls

DRIVER VOLUME NAME

.ocal a2b4dd9705cbe0586f4ae8fde6666d811b5a6534fe37404450a4d928b5bbfa20
.ocal ba9e210f463bd90e24be47df119d68f7199f41ede8c4a7b28e5fd4d6ae6d012a

[root@ip-172-31-44-91 ec2-user]# ■
```

11. docker volume inspect [volume id]

## 12. docker volume rm [volume id]

```
[root@ip-172-31-44-91 ec2-user]# docker volume rm a2b4dd9705cbe0586f4ae8fde6666d811b5a6534fe37404450a4d928b5bbfa20
a2b4dd9705cbe0586f4ae8fde6666d811b5a6534fe37404450a4d928b5bbfa20
[root@ip-172-31-44-91 ec2-user]# ■
```

## 13. service docker stop

```
[root@ip-172-31-44-91 ec2-user]# service docker stop
Redirecting to /bin/systemctl stop docker.service
```

## 14. docker

```
anagement Commands:
              Manage builds
Manage Docker configs
builder
config
container
              Manage containers
context
              Manage contexts
              Manage images
Manage Docker image manifests and manifest lists
image
manifest
              Manage networks
network
              Manage Swarm nodes
node
              Manage plugins
Manage Docker secrets
plugin
secret
service
              Manage services
              Manage Docker stacks
stack
              Manage Swarm
swarm
              Manage Docker
system
 trust
              Manage trust on Docker images
volume
              Manage volumes
ommands:
              Attach local standard input, output, and error streams to a running container Build an image from a Dockerfile
attach
build
              Create a new image from a container's changes
Copy files/folders between a container and the local filesystem
commit
create
               Create a new container
               Inspect changes to files or directories on a container's filesystem
diff
events
               Get real time events from the server
              Run a command in a running container
Export a container's filesystem as a tar archive
export
               Show the history of an image
history
               List images
images
              Import the contents from a tarball to create a filesystem image
import
              Display system-wide information
 info
```