Lab 9. Installing Docker on local VM

Objectives

- Install Docker on Oracle Linux 7
- Verify Docker installation
- Start and enable Docker Engine

Prerequisites

enabled=1

64-bit Oracle Linux 7

Sequence 1. Installing Docker

There are two methods for installing Docker on OL 7.

- One method involves installing it on an existing installation of the operating system.
- The other involves spinning up a server with a tool called Docker Machine that autoinstalls Docker on it.

In this Lab, you'll learn how to install and use it on an existing installation of Oracle Linux 7.

1. Add these to Existing Repo file /etc/yum.repos.d/oracle-linux-ol7.repo

```
# vi /etc/yum.repos.d/oracle-linux-ol7.repo
[ol7_developer]
name=Oracle Linux $releasever Development Packages ($basearch)
baseurl=https://yum.oracle.com/repo/OracleLinux/OL7/developer/$basearch/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-oracle
gpgcheck=1
enabled=1

[ol7_developer_EPEL]
name=Oracle Linux $releasever Development Packages ($basearch)
baseurl=https://yum.oracle.com/repo/OracleLinux/OL7/developer_EPEL/$basearch/
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-oracle
gpgcheck=1
```

2. The Docker installation packages are available in the official developer repository as you configured in *Lab 6*. Login as root user and follow the steps

```
# yum install docker-engine -y
```

 After installation is complete, start the Docker daemon and, make sure it starts at every server reboot.

```
# systemctl enable --now docker
```

4. Verify that it's running:

```
# systemctl status docker
```

5. The output should be similar to the following, showing that the service is active and running:

Sequence 2. Using the Docker Command

Using docker consists of passing it a chain of options and subcommands followed by arguments. The syntax is:

```
docker [option] [command] [arguments]
```

- 1. To view all available subcommands, type:
 - # docker

```
[root@server ~]# docker
Usage: docker [OPTIONS] COMMAND
A self-sufficient runtime for containers
Options:
     --config string Location of client config files (default "/root/.docker")
--debug Enable debug mode Enable debug mode
 -D, --debug
 -H, --host list
                           Daemon socket(s) to connect to
 -tls Use TLS; implied by --tlsverify

Use TLS; implied by --tlsverify
     --tlscacert string --tlscert string --tlscert string Path to TLS certificate file (default "/root/.docker/ca.pem")
     --tlskey string
                           Path to TLS key file (default "/root/.docker/key.pem")
                           Use TLS and verify the remote
     --tlsverify
 -v, --version
                           Print version information and quit
Management Commands:
 builder
             Manage builds
 config
              Manage Docker configs
 container
             Manage containers
 engine
              Manage the docker engine
```

2. To view the switches available to a specific command, type:

```
# docker docker-subcommand --help
```

3. To view system-wide information, use:

```
# docker info
```