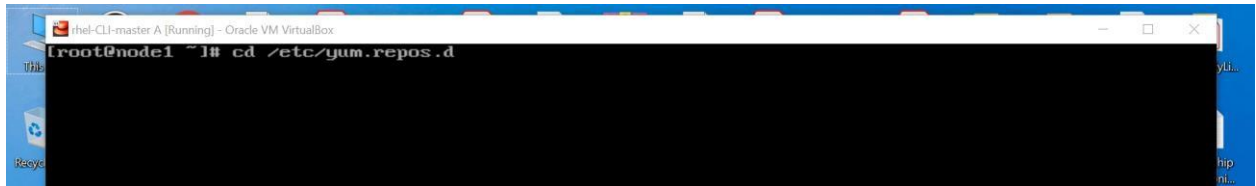


So, Lets start Installing Docker into the Virtual Machine so that you can practice the session.

First of all login with **root** account and then go to **cd /etc/yum.repos.d/**



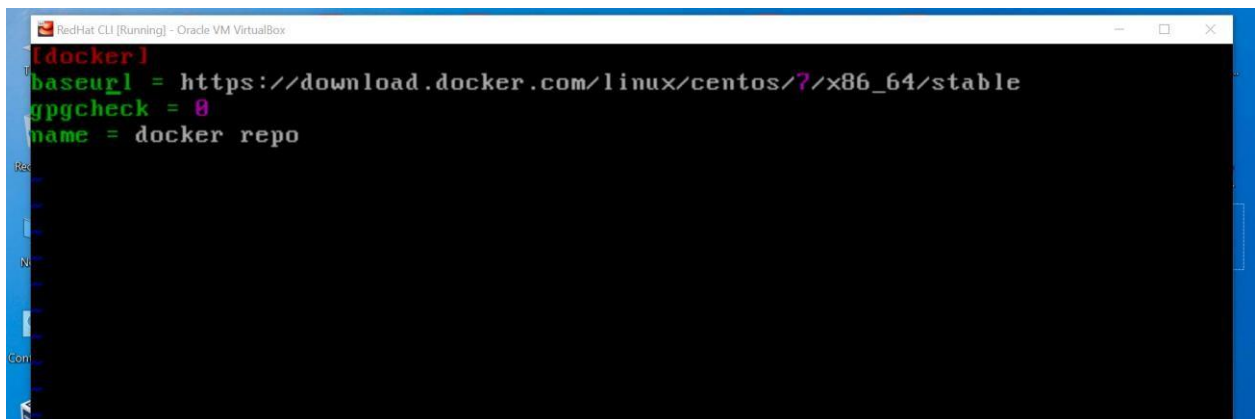
```
rhel-CLI-master A [Running] - Oracle VM VirtualBox
[root@node1 ~]# cd /etc/yum.repos.d
```

Create the file for docker repo with any name in my case I have given **docker12.repo**. The extension of file should be repo only.




```
rhel-CLI-master A [Running] - Oracle VM VirtualBox
[root@node1 ~]# cd /etc/yum.repos.d
[root@node1 yum.repos.d]# vim docker12.repo
```

Press **i** to enter in insert mode in vim editor, then write exact lines and save the file by pressing **esc** key then **:wq** and then **enter**.



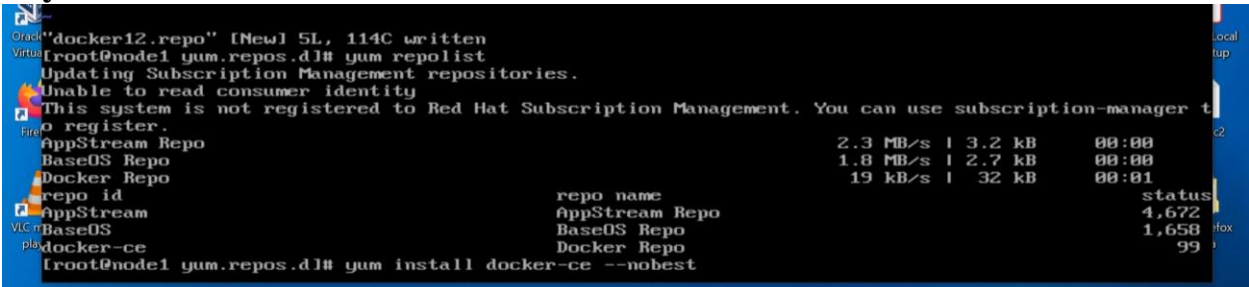
```
RedHat CLI [Running] - Oracle VM VirtualBox
[docker]
baseurl = https://download.docker.com/linux/centos/?x86_64/stable
gpgcheck = 0
name = docker repo
```

Now update the yum repository using command **yum repolist** and see the docker repo is coming properly or not.

A terminal window showing the output of the 'yum repolist' command. The output lists three repositories: AppStream Repo, BaseOS Repo, and Docker Repo, each with its download speed, size, and status. The Docker Repo is listed with a status of 99.

```
Oracle VM VirtualBox
"docker12.repo" [New] 5L, 114C written
[root@node1 yum.repos.d]# yum repolist
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management. You can use subscription-manager to register.
AppStream Repo                2.3 MB/s | 3.2 kB      00:00
BaseOS Repo                   1.8 MB/s | 2.7 kB      00:00
Docker Repo                   19 kB/s | 32 kB       00:01
repo id                        repo name              status
AppStream                     AppStream Repo         4,672
BaseOS                         BaseOS Repo            1,658
docker-ce                     Docker Repo            99
[root@node1 yum.repos.d]#
```

Now Download the **docker-ce** software that is community version. Use command – **yum install docker-ce --nobest** -> to install docker 18th version.

A terminal window showing the command 'yum install docker-ce --nobest' being entered. The output of the previous 'yum repolist' command is visible above the command line.

```
Oracle VM VirtualBox
"docker12.repo" [New] 5L, 114C written
[root@node1 yum.repos.d]# yum repolist
Updating Subscription Management repositories.
Unable to read consumer identity
This system is not registered to Red Hat Subscription Management. You can use subscription-manager to register.
AppStream Repo                2.3 MB/s | 3.2 kB      00:00
BaseOS Repo                   1.8 MB/s | 2.7 kB      00:00
Docker Repo                   19 kB/s | 32 kB       00:01
repo id                        repo name              status
AppStream                     AppStream Repo         4,672
BaseOS                         BaseOS Repo            1,658
docker-ce                     Docker Repo            99
[root@node1 yum.repos.d]# yum install docker-ce --nobest
```

```
===== Size
Installing:
docker-ce                               x86_64 3:18.09.1-3.el7                docker-ce 19 M
Installing dependencies:
container-selinux                       noarch 2:2.75-1.git99e2cfd.module+el8+2769+577ad176 AppStream 43 k
checkpolicy                             x86_64 2.8-2.el8                               BaseOS 338 k
libcggroup                              x86_64 0.41-19.el8                             BaseOS 70 k
policycoreutils-python-utils            noarch 2.8-16.1.el8                             BaseOS 228 k
python3-audit                            x86_64 3.0-0.10.20100831git0047a6c.el8       BaseOS 85 k
python3-libsemanage                     x86_64 2.8-5.el8                               BaseOS 127 k
python3-policycoreutils                 noarch 2.8-16.1.el8                             BaseOS 2.2 M
python3-setools                          x86_64 4.2.0-2.el8                             BaseOS 598 k
tar                                      x86_64 2:1.30-4.el8                             BaseOS 838 k
containerd.io                           x86_64 1.2.0-3.el7                               docker-ce 22 M
docker-ce-cli                           x86_64 1:20.10.6-3.el7                         docker-ce 33 M
docker-scan-plugin                       x86_64 0.7.0-3.el7                             docker-ce 4.2 M
Enabling module streams:
container-tools                          rhe18
Skipping packages with broken dependencies:
docker-ce                               x86_64 3:20.10.6-3.el7                docker-ce 27 M
docker-ce-rootless-extras               x86_64 20.10.0-3.el7                    docker-ce 9.0 M
docker-ce-rootless-extras               x86_64 20.10.1-3.el7                    docker-ce 9.0 M
docker-ce-rootless-extras               x86_64 20.10.2-3.el7                    docker-ce 9.0 M
docker-ce-rootless-extras               x86_64 20.10.3-3.el7                    docker-ce 9.0 M
docker-ce-rootless-extras               x86_64 20.10.4-3.el7                    docker-ce 9.1 M
docker-ce-rootless-extras               x86_64 20.10.5-3.el7                    docker-ce 9.1 M
docker-ce-rootless-extras               x86_64 20.10.6-3.el7                    docker-ce 9.2 M
Transaction Summary
=====
Install 13 Packages
Skip    8 Packages
Total download size: 83 M
Installed size: 352 M
Is this ok [y/N]: y
```

```
Running scriptlet: docker-ce-3:18.09.1-3.el7.x86_64 13/13
Installing      : docker-ce-3:18.09.1-3.el7.x86_64 13/13
Running scriptlet: docker-ce-3:18.09.1-3.el7.x86_64 13/13
[root@node1 yum.repos.d]#
[root@node1 yum.repos.d]#
[root@node1 yum.repos.d]#
[root@node1 yum.repos.d]#
[root@node1 yum.repos.d]#
[root@node1 yum.repos.d]#
[root@node1 yum.repos.d]#
```

You can check if docker is installed or not by below command.

```
[root@node1 yum.repos.d]#
[root@node1 yum.repos.d]#
[root@node1 yum.repos.d]#
[root@node1 yum.repos.d]# rpm -q docker-ce
docker-ce-18.09.1-3.el7.x86_64
[root@node1 yum.repos.d]#
```

Now start the docker –

systemctl start docker --now -> it will start the docker permanently in your vm and you can check the docker status if it is running or not.

```
root@node1 yum.repos.d]# systemctl start docker --now
root@node1 yum.repos.d]# systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; disabled; vendor preset: disabled)
   Active: active (running) since Wed 2021-05-26 13:28:50 IST; 14s ago
     Docs: https://docs.docker.com
    Main PID: 12518 (dockerd)
      Tasks: 18
     Memory: 72.0M
    CGroup: /system.slice/docker.service
            └─12518 /usr/bin/dockerd -H fd://
              └─12533 containerd --config /var/run/docker/containerd/containerd.toml --log-level info

May 26 13:28:48 node1.lw.com dockerd[12518]: time="2021-05-26T13:28:48.142734403+05:30" level=info
May 26 13:28:48 node1.lw.com dockerd[12518]: time="2021-05-26T13:28:48.143248597+05:30" level=warni
May 26 13:28:48 node1.lw.com dockerd[12518]: time="2021-05-26T13:28:48.143266383+05:30" level=warni
May 26 13:28:48 node1.lw.com dockerd[12518]: time="2021-05-26T13:28:48.144481825+05:30" level=info
May 26 13:28:49 node1.lw.com dockerd[12518]: time="2021-05-26T13:28:49.512645308+05:30" level=info
May 26 13:28:49 node1.lw.com dockerd[12518]: time="2021-05-26T13:28:49.818068400+05:30" level=info
May 26 13:28:50 node1.lw.com dockerd[12518]: time="2021-05-26T13:28:50.219478062+05:30" level=info
May 26 13:28:50 node1.lw.com dockerd[12518]: time="2021-05-26T13:28:50.247835762+05:30" level=info
May 26 13:28:50 node1.lw.com dockerd[12518]: time="2021-05-26T13:28:50.315813121+05:30" level=info
May 26 13:28:50 node1.lw.com systemd[1]: Started Docker Application Container Engine.
lines 1-21/21 (END)
```

```
root@node1 yum.repos.d]# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
root@node1 yum.repos.d]# docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
root@node1 yum.repos.d]# docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
root@node1 yum.repos.d]# _
```