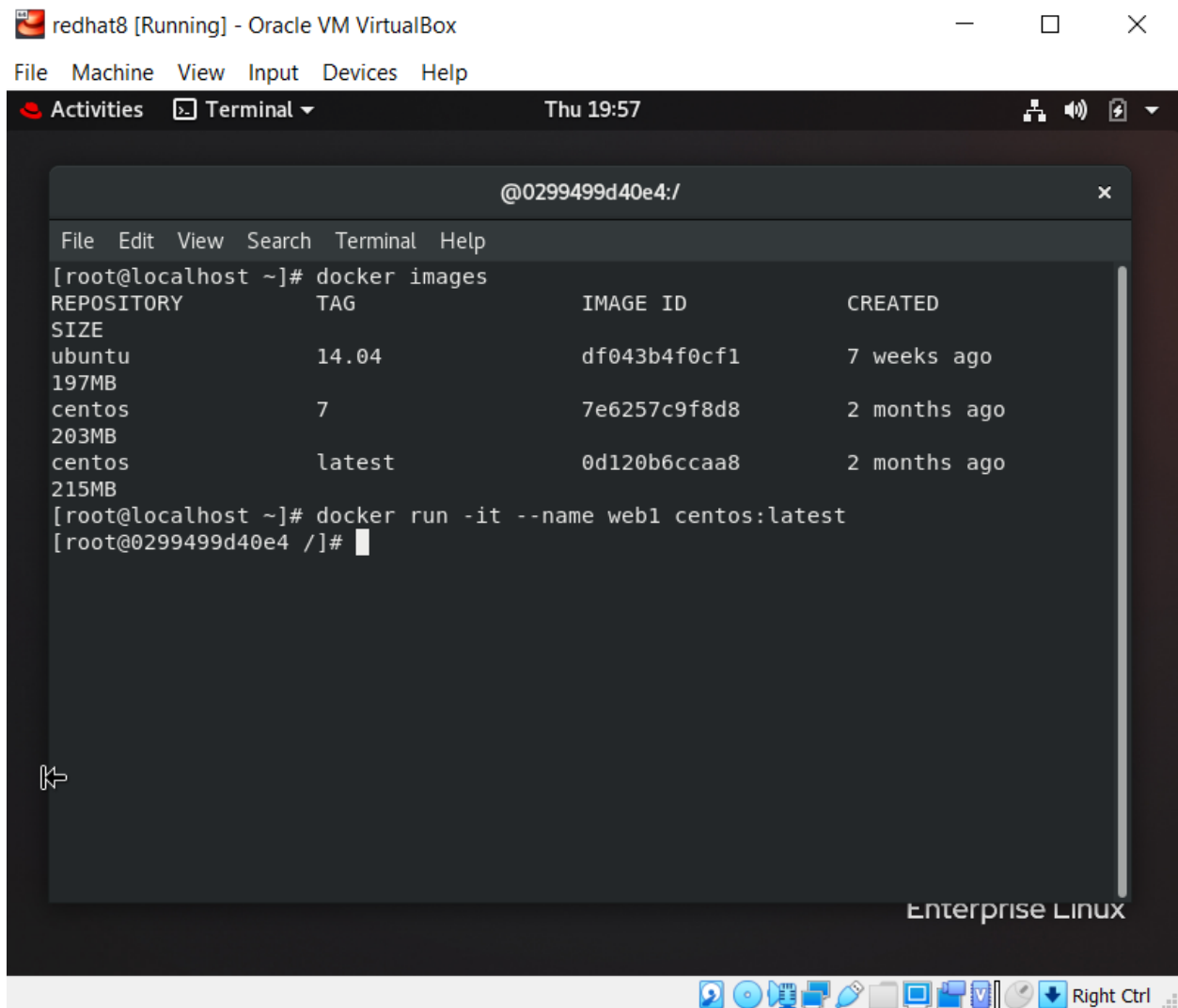


Configuring httpd on docker container:

```
#docker images
```

```
#docker run -it --name web1 centos:latest
```

Rnrunning the above commands, we land in the centos, a container launched by docker.



The screenshot shows a terminal window titled "redhat8 [Running] - Oracle VM VirtualBox". The terminal output is as follows:

```
@0299499d40e4:/  
File Edit View Search Terminal Help  
[root@localhost ~]# docker images  
REPOSITORY          TAG             IMAGE ID        CREATED  
SIZE  
ubuntu              14.04          df043b4f0cf1   7 weeks ago  
197MB  
centos              7              7e6257c9f8d8   2 months ago  
203MB  
centos              latest         0d120b6ccaa8   2 months ago  
215MB  
[root@localhost ~]# docker run -it --name web1 centos:latest  
[root@0299499d40e4 /]#
```

The terminal window also shows a menu bar with "File", "Edit", "View", "Search", "Terminal", and "Help". The status bar at the bottom indicates "Enterprise Linux" and "Right Ctrl".

As the root id has changed, this confirms that we are on other OS.

#yum whatprovides ifconfig

```
[root@0299499d40e4 /]# yum whatprovides ifconfig
Failed to set locale, defaulting to C.UTF-8
CentOS-8 - AppStream          1.0 MB/s | 5.8 MB      00:05
CentOS-8 - Base               597 kB/s | 2.2 MB      00:03
CentOS-8 - Extras             7.4 kB/s | 8.1 kB      00:01
net-tools-2.0-0.51.20160912git.el8.x86_64 : Basic networking tools
Repo                          : BaseOS
Matched from:
Filename                      : /usr/sbin/ifconfig
```

It installs ifconfig, so that we can check the ip of the container.

#yum install net-tools

```
@0299499d40e4:/
File Edit View Search Terminal Help

[root@0299499d40e4 /]# yum install net-tools
Failed to set locale, defaulting to C.UTF-8
Last metadata expiration check: 0:02:27 ago on Thu Nov  5 14:31:13 2020.
Dependencies resolved.
=====
Package                Architecture Version                      Repository    Size
=====
Installing:
net-tools               x86_64      2.0-0.51.20160912git.el8     BaseOS        323 k
Transaction Summary
=====
Install 1 Package

Total download size: 323 k
Installed size: 1.0 M
Is this ok [y/N]: y
Downloading Packages:
net-tools-2.0-0.51.20160912git.el8.x86_64.rpm  329 kB/s | 323 kB      00:00
-----
Total                                           47 kB/s | 323 kB      00:06
warning: /var/cache/dnf/BaseOS-f6a80ba95cf937f2/packages/net-tools-2.0-0.51.2016
0912git.el8.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID 8483c65d: NOKEY
-----
Enterprise Linux
```

It will help us to check the port number.

#yum install httpd

Installing httpd

```
[root@0299499d40e4 /]# yum install httpd
Failed to set locale, defaulting to C.UTF-8
Last metadata expiration check: 0:26:38 ago on Thu Nov  5 14:31:13 2020.
Dependencies resolved.
=====
Package                Arch    Version                               Repo                Size
=====
Installing:
httpd                  x86_64  2.4.37-21.module_el8.2.0+494+1df74eae AppStream            1.7 M
Installing dependencies:
apr                    x86_64  1.6.3-9.el8                        AppStream            125 k
apr-util               x86_64  1.6.1-6.el8                        AppStream            105 k
brotli                 x86_64  1.0.6-1.el8                        BaseOS                323 k
centos-logos-httpd    noarch  80.5-2.el8                          BaseOS                24 k
httpd-filesystem      noarch  2.4.37-21.module_el8.2.0+494+1df74eae AppStream             36 k
httpd-tools           x86_64  2.4.37-21.module_el8.2.0+494+1df74eae AppStream            103 k
mailcap               noarch  2.1.48-3.el8                        BaseOS                39 k
mod_http2             x86_64  1.11.3-3.module_el8.2.0+486+c01050f0.1 AppStream            156 k
Installing weak dependencies:
apr-util-bdb          x86_64  1.6.1-6.el8                        AppStream            25 k
apr-util-openssl      x86_64  1.6.1-6.el8                        AppStream            27 k
Enabling module streams:
httpd                  2.4
```

#systemctl start httpd

This command will fail, as container do not support systemctl command

```
[root@0299499d40e4 html]# systemctl start httpd
System has not been booted with systemd as init system (PID 1). Can't operate.
Failed to connect to bus: Host is down
[root@0299499d40e4 html]#
```

/usr/sbin/httpd

Therefore, to start httpd, we shall use the above command.

```
[root@0299499d40e4 html]# systemctl start httpd
System has not been booted with systemd as init system (PID 1). Can't operate.
Failed to connect to bus: Host is down
[root@0299499d40e4 html]# /usr/sbin/httpd
AH00558: httpd: Could not reliably determine the server's fully qualified domain
name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress thi
s message
[root@0299499d40e4 html]#
```

netstat -tnlp

As, systemctl is not supported, we shall check the status by using the above command.

Therefore, we use the above command which shows that port number 80 is working.

Therefore, we know that httpd has been successfully started on docker container.

```
[root@0299499d40e4 html]# netstat -tnlp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
PID/Program name
tcp        0      0 0.0.0.0:80               0.0.0.0:*               LISTEN
266/httpd
[root@0299499d40e4 html]#
```

Port Number 80 has started. Hence, httpd has successfully been configured on the docker container.