root@student-OptiPlex-3020:/home/student# docker pull centos

Using default tag: latest

latest: Pulling from library/centos

Digest: sha256:dcbc4e5e7052ea2306eed59563da1fec09196f2ecacbe042acbdcd2b44b05270

Status: Image is up to date for centos:latest

root@student-OptiPlex-3020:/home/student# docker run -ti --rm --cap-add=NET\_ADMIN centos bash

[root@27df14c224be /]# yum install iptables-services

Loaded plugins: fastestmirror, ovl

base | 3.6 kB 00:00

extras | 3.4 kB 00:00

updates | 3.4 kB 00:00

(1/4): base/7/x86\_64/group\_gz | 156 kB 00:05

(2/4): extras/7/x86\_64/primary\_db | 185 kB 00:06

(3/4): base/7/x86\_64/primary\_db | 5.7 MB 00:07

(4/4): updates/7/x86\_64/primary\_db | 6.9 MB 00:07

Determining fastest mirrors

\* base: mirror.dhakacom.com

\* extras: mirror.dhakacom.com

\* updates: mirror.dhakacom.com

Resolving Dependencies

--> Running transaction check

---> Package iptables-services.x86\_64 0:1.4.21-18.3.el7\_4 will be installed

--> Processing Dependency: iptables = 1.4.21-18.3.el7\_4 for package: iptables-services-1.4.21-18.3.el7\_4.x86\_64

--> Running transaction check

---> Package iptables.x86\_64 0:1.4.21-18.3.el7\_4 will be installed

--> Processing Dependency: libnfnetlink.so.0()(64bit) for package: iptables-1.4.21-18.3.el7\_4.x86\_64

--> Processing Dependency: libnetfilter\_conntrack.so.3()(64bit) for package: iptables-1.4.21-18.3.el7\_4.x86\_64

--> Running transaction check

---> Package libnetfilter\_conntrack.x86\_64 0:1.0.6-1.el7\_3 will be installed

--> Processing Dependency: libmnl.so.0(LIBMNL\_1.1)(64bit) for package: libnetfilter\_conntrack-1.0.6-1.el7\_3.x86\_64

--> Processing Dependency: libmnl.so.0(LIBMNL\_1.0)(64bit) for package: libnetfilter\_conntrack-1.0.6-1.el7\_3.x86\_64

Complete!

[root@27df14c224be /]# ping 8.8.8.8

PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.

64 bytes from 8.8.8.8: icmp\_seq=1 ttl=59 time=12.9 ms

64 bytes from 8.8.8.8: icmp\_seq=2 ttl=59 time=4.42 ms

64 bytes from 8.8.8.8: icmp\_seq=3 ttl=59 time=8.54 ms

^Z

[1]+ Stopped ping 8.8.8.8

[root@27df14c224be /]# iptables -L

Chain INPUT (policy ACCEPT)

target prot opt source destination

Chain FORWARD (policy ACCEPT)

target prot opt source destination

Chain OUTPUT (policy ACCEPT)

target prot opt source destination

[root@27df14c224be /]# iptables -A OUTPUT -d 8.8.8.8 -j REJECT

[root@27df14c224be /]# ping 8.8.8.8

PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.

From 172.17.0.2 icmp\_seq=1 Destination Port Unreachable

ping: sendmsg: Operation not permitted

From 172.17.0.2 icmp\_seq=2 Destination Port Unreachable

ping: sendmsg: Operation not permitted

From 172.17.0.2 icmp\_seq=3 Destination Port Unreachable

ping: sendmsg: Operation not permitted