

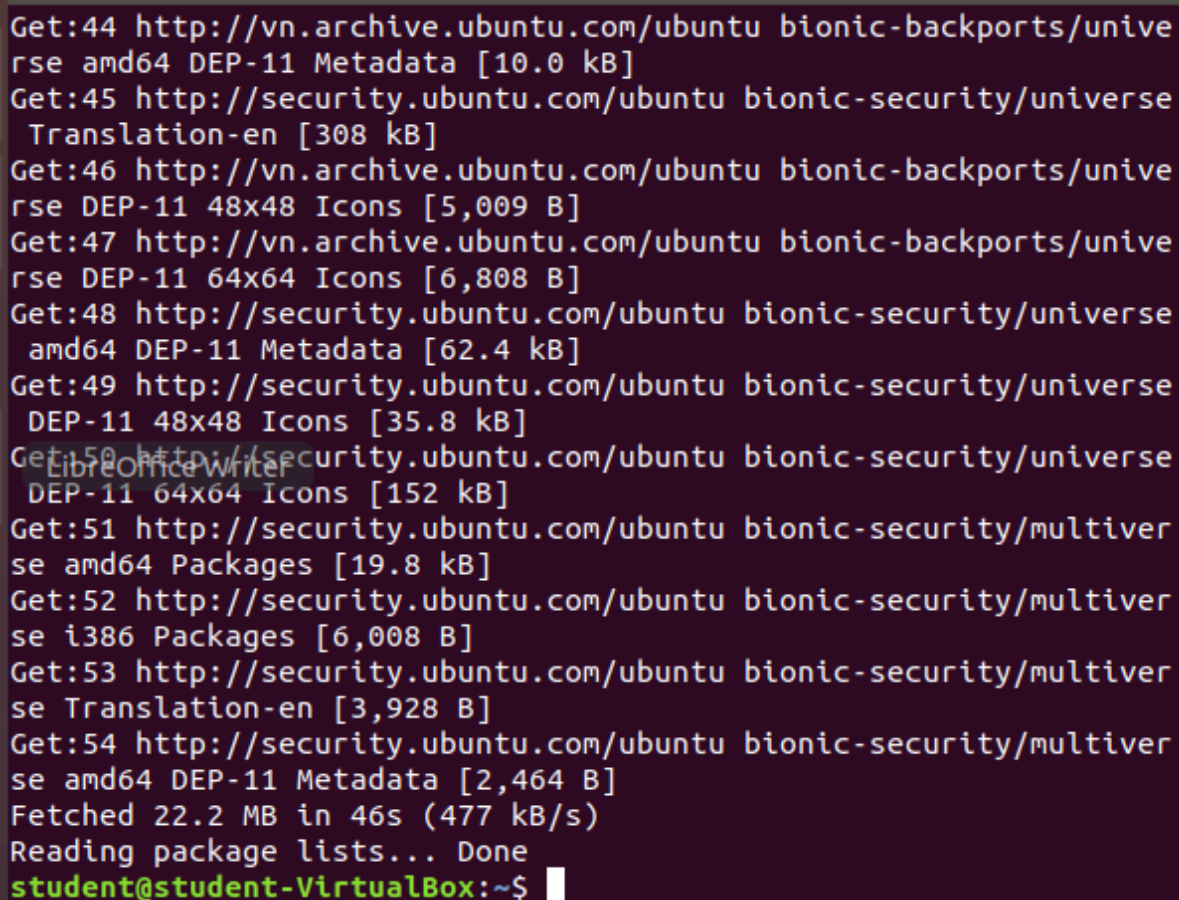
Linux Firewall usage

Exercise following command, explain the command

Step 1 - Installing Iptables

1 Update the package list by running the following command:

\$sudo apt-get update



```
Get:44 http://vn.archive.ubuntu.com/ubuntu bionic-backports/universe amd64 DEP-11 Metadata [10.0 kB]
Get:45 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [308 kB]
Get:46 http://vn.archive.ubuntu.com/ubuntu bionic-backports/universe DEP-11 48x48 Icons [5,009 B]
Get:47 http://vn.archive.ubuntu.com/ubuntu bionic-backports/universe DEP-11 64x64 Icons [6,808 B]
Get:48 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 DEP-11 Metadata [62.4 kB]
Get:49 http://security.ubuntu.com/ubuntu bionic-security/universe DEP-11 48x48 Icons [35.8 kB]
Get:50 http://security.ubuntu.com/ubuntu bionic-security/universe DEP-11 64x64 Icons [152 kB]
Get:51 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [19.8 kB]
Get:52 http://security.ubuntu.com/ubuntu bionic-security/multiverse i386 Packages [6,008 B]
Get:53 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-en [3,928 B]
Get:54 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 DEP-11 Metadata [2,464 B]
Fetched 22.2 MB in 46s (477 kB/s)
Reading package lists... Done
student@student-VirtualBox:~$
```

2 Install iptables by running the following command:

\$sudo apt-get install iptables

3 Verify the installation by checking the version of iptables:

\$iptables --version or \$iptables -V (example below)

```
student@student-VirtualBox:~$ iptables --version
iptables v1.6.1
```

- 4 Show a list of all the rules in the fire wall

\$sudo iptables -L -v

```
student@student-VirtualBox:~$ sudo iptables -L -v
Chain INPUT (policy ACCEPT 7905 packets, 24M bytes)
 pkts bytes target      prot opt in      out     source
 destination

Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
 pkts bytes target      prot opt in      out     source
 destination

Chain OUTPUT (policy ACCEPT 6265 packets, 385K bytes)
 pkts bytes target      prot opt in      out     source
 destination
student@student-VirtualBox:~$
```

Step 2 - Defining Chain Rules

- 5 Insert the `-A` option (Append) right after the iptables command:

\$sudo iptables -A

```
student@student-VirtualBox:~$ sudo iptables -A
iptables v1.6.1: option "-A" requires an argument
Try `iptables -h' or 'iptables --help' for more information.
```

Enabling traffic on Localhost

- 6 The `-i lo` option specifies the loopback interface, and the `-j ACCEPT` option allows the traffic

\$sudo iptables -A INPUT -i lo -j ACCEPT

- 7 Check that the new rule was added:

\$sudo iptables -L INPUT -v -n