

Name: Binodon

ID IT-17046

Assignment no 1

Tshark: command line super powerful packet analysis

```
binodon@binodon-VirtualBox:~$ tshark
Capturing on 'Cisco remote capture'
tshark: Couldn't run /usr/bin/dumpcap in child process: Permission denied

tshark: Error by extcap pipe:
** (process:5995): WARNING **: 20:03:28.742: Missing parameter: --remote-host

0 packets captured
binodon@binodon-VirtualBox:~$
```

ssh: secure shell.

```
binodon@binodon-VirtualBox:~$ ssh
usage: ssh [-46AaCfGgKkMnNqsTtVvXxYy] [-b bind_address] [-c cipher_spec]
          [-D [bind_address:]port] [-E log_file] [-e escape_char]
          [-F configfile] [-I pkcs11] [-i identity_file]
          [-J [user@]host[:port]] [-L address] [-l login_name] [-m mac_spec]
          [-O ctl_cmd] [-o option] [-p port] [-Q query_option] [-R address]
          [-S ctl_path] [-W host:port] [-w local_tun[:remote_tun]]
          [user@]hostname [command]

binodon@binodon-VirtualBox:~$ scp
usage: scp [-346BCpqrV] [-c cipher] [-F ssh_config] [-i identity_file]
          [-l limit] [-o ssh_option] [-P port] [-S program]
          [[user@]host1:]file1 ... [[user@]host2:]file2

binodon@binodon-VirtualBox:~$
```

Route-n:- view and change the route table.

```
binodon@binodon-VirtualBox:~$ route -n
Kernel IP routing table
Destination      Gateway         Genmask         Flags Metric Ref    Use Iface
0.0.0.0          10.0.2.2       0.0.0.0         UG    100    0      0 enp0s3
10.0.2.0         0.0.0.0        255.255.255.0   U     100    0      0 enp0s3
169.254.0.0      0.0.0.0        255.255.0.0     U     1000   0      0 enp0s3
```

route

```
binodon@binodon-VirtualBox:~$ route
Kernel IP routing table
Destination      Gateway         Genmask         Flags Metric Ref    Use Iface
default          _gateway        0.0.0.0         UG    100    0      0 enp0s3
10.0.2.0         0.0.0.0        255.255.255.0   U     100    0      0 enp0s3
link-local       0.0.0.0        255.255.0.0     U     1000   0      0 enp0s3
binodon@binodon-VirtualBox:~$
```

Ping:- computers are connected.

```
binodon@binodon-VirtualBox:~$ ping
Usage: ping [-aAbBdDfhLnOqrRUvV64] [-c count] [-i interval] [-I interface]
          [-m mark] [-M pmtudisc_option] [-l preload] [-p pattern] [-Q tos]
          [-s packetsize] [-S sndbuf] [-t ttl] [-T timestamp_option]
          [-w deadline] [-W timeout] [hop1 ...] destination
Usage: ping -6 [-aAbBdDfhLnOqrRUvV] [-c count] [-i interval] [-I interface]
          [-l preload] [-m mark] [-M pmtudisc_option]
          [-N nodeinfo_option] [-p pattern] [-Q tclass] [-s packetsize]
          [-S sndbuf] [-t ttl] [-T timestamp_option] [-w deadline]
          [-W timeout] destination
```

netstat-r

```
binodon@binodon-VirtualBox:~$ netstat -r
Kernel IP routing table
Destination      Gateway          Genmask          Flags      MSS Window  irtt Iface
default          _gateway        0.0.0.0          UG         0 0        0 enp0s3
10.0.2.0         0.0.0.0         255.255.255.0    U         0 0        0 enp0s3
link-local       0.0.0.0         255.255.0.0      U         0 0        0 enp0s3
binodon@binodon-VirtualBox:~$
```

netstat-r -n

```
binodon@binodon-VirtualBox:~$ netstat -r -n
Kernel IP routing table
Destination      Gateway          Genmask          Flags      MSS Window  irtt Iface
0.0.0.0          10.0.2.2        0.0.0.0          UG         0 0        0 enp0s3
10.0.2.0         0.0.0.0         255.255.255.0    U         0 0        0 enp0s3
169.254.0.0      0.0.0.0         255.255.0.0      U         0 0        0 enp0s3
```

```
binodon@binodon-VirtualBox:~$ sudo apt install ngrep
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libnet1
The following NEW packages will be installed:
  libnet1 ngrep
0 upgraded, 2 newly installed, 0 to remove and 519 not upgraded.
Need to get 75.4 kB of archives.
After this operation, 226 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 libnet1 amd64 1.1.6+dfsg-3.1 [42.9 kB]
Get:2 http://bd.archive.ubuntu.com/ubuntu bionic/universe amd64 ngrep amd64 1.47+ds1-1 [32.5 kB]
Fetched 75.4 kB in 10s (7,780 B/s)
Selecting previously unselected package libnet1:amd64.
(Reading database ... 125280 files and directories currently installed.)
Preparing to unpack .../libnet1_1.1.6+dfsg-3.1_amd64.deb ...
Unpacking libnet1:amd64 (1.1.6+dfsg-3.1) ...
Selecting previously unselected package ngrep.
Preparing to unpack .../ngrep_1.47+ds1-1_amd64.deb ...
Unpacking ngrep (1.47+ds1-1) ...
Setting up libnet1:amd64 (1.1.6+dfsg-3.1) ...
Setting up ngrep (1.47+ds1-1) ...
Processing triggers for libc-bin (2.27-3ubuntu1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
binodon@binodon-VirtualBox:~$
```

Ipaddress:- view ip address.


```
binodon@binodon-VirtualBox:~$ ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:56:0b:b0 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 84227sec preferred_lft 84227sec
    inet6 fe80::c6b6:1b82:7921:8ccc/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

ip

```
binodon@binodon-VirtualBox:~$ ip
Usage: ip [ OPTIONS ] OBJECT { COMMAND | help }
       ip [ -force ] -batch filename
where  OBJECT := { link | address | addrlabel | route | rule | neigh | ntable |
                  tunnel | tuntap | maddress | mroute | mrule | monitor | xfrm |
                  netns | l2tp | fou | macsec | tcp_metrics | token | netconf | ila |
                  vrf | sr }
       OPTIONS := { -V[ersion] | -s[tatistics] | -d[etails] | -r[esolve] |
                   -h[uman-readable] | -iec |
                   -f[amily] { inet | inet6 | ipx | dnet | mpls | bridge | link } |
                   -4 | -6 | -I | -D | -B | -O |
                   -l[oops] { maximum-addr-flush-attempts } | -br[ief] |
                   -o[neline] | -t[imestamp] | -ts[hort] | -b[atch] [filename] |
                   -rc[vbuf] [size] | -n[etns] name | -a[ll] | -c[olor]}
binodon@binodon-VirtualBox:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:56:0b:b0 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 86266sec preferred_lft 86266sec
    inet6 fe80::c6b6:1b82:7921:8ccc/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

install net tools

```
binodon@binodon-VirtualBox:~$ sudo apt install net-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 520 not upgraded.
Need to get 194 kB of archives.
After this operation, 803 kB of additional disk space will be used.
Get:1 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 net-tools amd64 1.60
+git20161116.90da8a0-1ubuntu1 [194 kB]
Fetched 194 kB in 8s (25.0 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 125209 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20161116.90da8a0-1ubuntu1_amd64.deb ..
.
Unpacking net-tools (1.60+git20161116.90da8a0-1ubuntu1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Setting up net-tools (1.60+git20161116.90da8a0-1ubuntu1) ...
binodon@binodon-VirtualBox:~$
```

ifconfig:-view ip and mac address.


```
binodon@binodon-VirtualBox:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::c6b6:1b82:7921:8ccc prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:56:0b:b0 txqueuelen 1000 (Ethernet)
    RX packets 28513 bytes 34786316 (34.7 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 6074 bytes 455388 (455.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 289 bytes 23900 (23.9 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 289 bytes 23900 (23.9 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

```
binodon@binodon-VirtualBox:~$
```

```
binodon@binodon-VirtualBox:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::c6b6:1b82:7921:8ccc prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:56:0b:b0 txqueuelen 1000 (Ethernet)
    RX packets 31873 bytes 38936200 (38.9 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4932 bytes 382736 (382.7 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 247 bytes 20793 (20.7 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 247 bytes 20793 (20.7 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

install curl

```
binodon@binodon-VirtualBox:~$ sudo apt install curl
[sudo] password for binodon:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libcurl4 libssl1.1
The following NEW packages will be installed:
  curl libcurl4
The following packages will be upgraded:
  libssl1.1
1 upgraded, 2 newly installed, 0 to remove and 519 not upgraded.
Need to get 373 kB/1,673 kB of archives.
After this operation, 1,572 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libcurl4 amd
64 7.58.0-2ubuntu3.8 [214 kB]
79% [1 libcurl4 210 kB/214 kB 98%] 22.7 kB/s 7s net-
```

tools

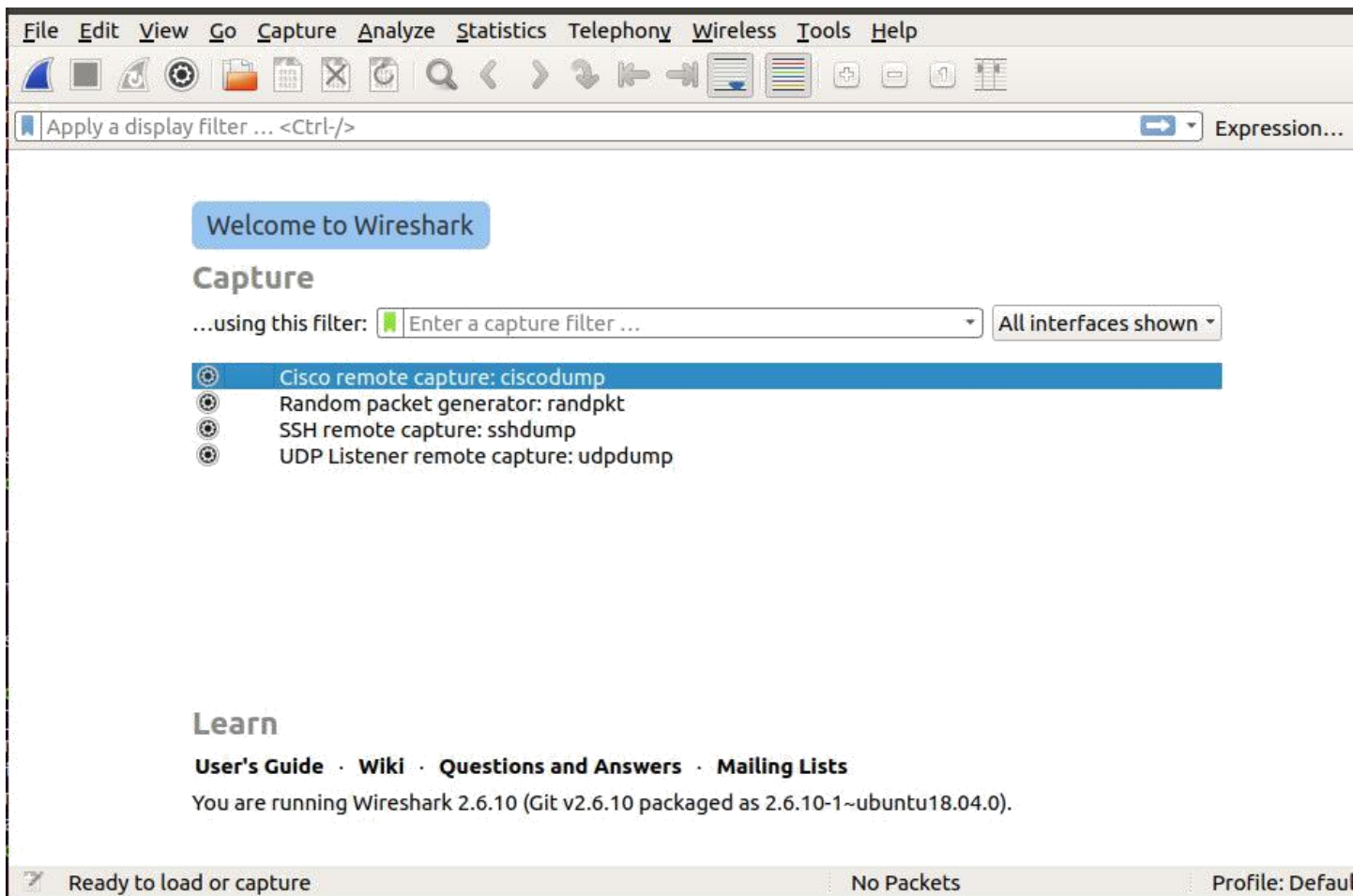
```
binodon@binodon-VirtualBox:~$ sudo apt install net-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 520 not upgraded.
Need to get 194 kB of archives.
After this operation, 803 kB of additional disk space will be used.
Get:1 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 net-tools amd64 1.60
+git20161116.90da8a0-1ubuntu1 [194 kB]
Fetched 194 kB in 8s (25.0 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 125209 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20161116.90da8a0-1ubuntu1_amd64.deb ..
.
Unpacking net-tools (1.60+git20161116.90da8a0-1ubuntu1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Setting up net-tools (1.60+git20161116.90da8a0-1ubuntu1) ...
```

arp:- see your ARP table

```
binodon@binodon-VirtualBox:~$ arp
Address                HWtype  HWaddress           Flags Mask            Iface
_gateway               ether    52:54:00:12:35:02    C                      enp0s3
binodon@binodon-VirtualBox:~$
```

wireshark:-look at those packets in a GUI.

```
binodon@binodon-VirtualBox:~$ sudo apt install wireshark
[sudo] password for binodon:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libc-ares2 libdouble-conversion1 liblua5.2-0 libmaxminddb0 libnl-route-3-200 libqgsttools-p1 libqt5core5a libqt5dbus5
  libqt5multimedia5 libqt5multimedia5-plugins libqt5multimediawidgets5 libqt5network5 libqt5opengl5 libqt5printsupport5
  libqt5widgets5 libsmi2ldbl libsnappy1v5 libspandsp2 libssh-gcrypt-4 libwireshark-data libwireshark11 libwiretap8 libx11-6
  libxcb-xinerama0 qt5-gtk-platformtheme qttranslations5-l10n wireshark-common wireshark-qt
Suggested packages:
  mmdb-bin qt5-image-formats-plugins qtwayland5 snmp-mibs-downloader wireshark-doc
The following NEW packages will be installed:
  libc-ares2 libdouble-conversion1 liblua5.2-0 libmaxminddb0 libnl-route-3-200 libqgsttools-p1 libqt5core5a libqt5dbus5
  libqt5multimedia5 libqt5multimedia5-plugins libqt5multimediawidgets5 libqt5network5 libqt5opengl5 libqt5printsupport5
  libqt5widgets5 libsmi2ldbl libsnappy1v5 libspandsp2 libssh-gcrypt-4 libwireshark-data libwireshark11 libwiretap8 libx11-6
  libxcb-xinerama0 qt5-gtk-platformtheme qttranslations5-l10n wireshark wireshark-common wireshark-qt
0 upgraded, 32 newly installed, 0 to remove and 519 not upgraded.
Need to get 30.3 MB/30.3 MB of archives.
After this operation, 149 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 libdouble-conversion1 amd64 2.0.1-4ubuntu1 [33.0 kB]
Get:2 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libqt5core5a amd64 5.9.5+dfsg-0ubuntu2.5 [2,036 kB]
1% [2 libqt5core5a 35.7 kB/2,036 kB 2%]
```

whois install

```
binodon@binodon-VirtualBox:~$ sudo apt install whois
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  whois
0 upgraded, 1 newly installed, 0 to remove and 519 not upgraded.
Need to get 43.7 kB of archives.
After this operation, 262 kB of additional disk space will be used.
Get:1 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 whois amd64 5.3.0 [43.7 kB]
Fetched 43.7 kB in 3s (13.7 kB/s)
Selecting previously unselected package whois.
(Reading database ... 125271 files and directories currently installed.)
Preparing to unpack .../archives/whois_5.3.0_amd64.deb ...
Unpacking whois (5.3.0) ...
Setting up whois (5.3.0) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
```

```
binodon@binodon-VirtualBox:~$ whois
```

```
Usage: whois [OPTION]... OBJECT...
```

```
-h HOST, --host HOST    connect to server HOST
-p PORT, --port PORT    connect to PORT
-H                      hide legal disclaimers
    --verbose           explain what is being done
    --help              display this help and exit
    --version           output version information and exit
```

These flags are supported by whois.ripe.net and some RIPE-like servers:

```
-l          find the one level less specific match
-L          find all levels less specific matches
-m          find all one level more specific matches
-M          find all levels of more specific matches
-c          find the smallest match containing a mnt-irt attribute
-x          exact match
-b          return brief IP address ranges with abuse contact
-B          turn off object filtering (show email addresses)
-G          turn off grouping of associated objects
-d          return DNS reverse delegation objects too
-i ATTR[,ATTR]...    do an inverse look-up for specified ATTRibutes
-T TYPE[,TYPE]...    only look for objects of TYPE
-K          only primary keys are returned
-r          turn off recursive look-ups for contact information
-R          force to show local copy of the domain object even
            if it contains referral
-a          also search all the mirrored databases
-s SOURCE[,SOURCE]... search the database mirrored from SOURCE
-g SOURCE:FIRST-LAST find updates from SOURCE from serial FIRST to LAST
```

tc

```
binodon@binodon-VirtualBox:~$ tc
```

```
Usage: tc [ OPTIONS ] OBJECT { COMMAND | help }
```

```
tc [-force] -batch filename
```

```
where OBJECT := { qdisc | class | filter | action | monitor | exec }
```

```
OPTIONS := { -s[tatistics] | -d[etails] | -r[aw] | -p[retty] | -b[atch] [
filename] | -n[etns] name |
```

```
-nm | -nam[es] | { -cf | -conf } path } | -j[son]
```

```
binodon@binodon-VirtualBox:~$
```


zenmap:GUI for nmap.

```
binodon@binodon-VirtualBox:~$ sudo apt install zenmap
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libpython-stdlib libpython2.7 libpython2.7-minimal libpython2.7-stdlib menu python python-cairo python-gobject-2 python-
python-minimal python2.7 python2.7-minimal
Suggested packages:
  menu-l10n gksu | kde-runtime | ktsuss python-doc python-tk python-gobject-2-dbg python-gtk2-doc python2.7-doc binfmt-su
The following NEW packages will be installed:
  libpython-stdlib menu python python-cairo python-gobject-2 python-gtk2 python-minimal python2.7 python2.7-minimal zenmap
The following packages will be upgraded:
  libpython2.7 libpython2.7-minimal libpython2.7-stdlib
3 upgraded, 10 newly installed, 0 to remove and 516 not upgraded.
Need to get 6,651 kB of archives.
After this operation, 13.8 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython2.7 amd64 2.7.17-1~18.04 [1,053 kB]
Get:1 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython2.7 amd64 2.7.17-1~18.04 [1,053 kB]
Get:2 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython2.7-stdlib amd64 2.7.17-1~18.04 [1,915 kB]
Get:3 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main amd64 libpython2.7-minimal amd64 2.7.17-1~18.04 [335 kB]
Get:4 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python2.7-minimal amd64 2.7.17-1~18.04 [1,294 kB]
Get:5 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 python-minimal amd64 2.7.15-rc1-1 [28.1 kB]
Get:6 http://bd.archive.ubuntu.com/ubuntu bionic-updates/main amd64 python2.7 amd64 2.7.17-1~18.04 [248 kB]
Get:7 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 libpython-stdlib amd64 2.7.15-rc1-1 [7,620 B]
Get:8 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 python amd64 2.7.15-rc1-1 [140 kB]
Get:9 http://bd.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 menu amd64 2.1.47ubuntu2.1 [349 kB]
```

Mitmproxy:- Spy on SSL connections your programs are making.

```
binodon@binodon-VirtualBox:~$ sudo apt install mitmproxy
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  fonts-font-awesome javascript-common libjs-jquery libjs-sphinxdoc libjs-underscore python3-argcomplete python3-
python3-brotli python3-bs4 python3-click python3-colorama python3-configargparse python3-construct python3-flask
python3-h2 python3-hpack python3-html2text python3-html5lib python3-hyperframe python3-itertools python3-jsbeautifier
python3-kaitaistruct python3-lxml python3-openssl python3-passlib python3-pathtools python3-pyparsing python3-pyperclip
python3-ruamel.yaml python3-sortedcontainers python3-tornado python3-webencodings python3-werkzeug
Suggested packages:
  apache2 | lighttpd | httpd python-blinker-doc python-flask-doc python3-genshi python-jinja2-doc python3-openssl-doc
python3-openssl-dbg python-pyinotify-doc python-pyparsing-doc python-sortedcontainers python-tornado-doc python3-twisted
python-urwid-doc ipython3 python3-termcolor python-werkzeug-doc
The following NEW packages will be installed:
  fonts-font-awesome javascript-common libjs-jquery libjs-sphinxdoc libjs-underscore mitmproxy python3-argcomplete
python3-brotli python3-bs4 python3-click python3-colorama python3-configargparse python3-construct python3-feedparser
python3-flask python3-h2 python3-hpack python3-html2text python3-html5lib python3-hyperframe python3-jinja2
python3-jsbeautifier python3-kaitaistruct python3-lxml python3-openssl python3-passlib python3-pyinotify python3-pyparsing
python3-pyperclip python3-ruamel.yaml python3-sortedcontainers python3-watchdog python3-webencodings python3-werkzeug
0 upgraded, 42 newly installed, 0 to remove and 519 not upgraded.
Need to get 5,356 kB of archives.
After this operation, 25.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 fonts-font-awesome all 4.7.0-dfsg-3 [513 kB]
Get:1 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 fonts-font-awesome all 4.7.0-dfsg-3 [513 kB]
Get:2 http://bd.archive.ubuntu.com/ubuntu bionic/main amd64 python3-openssl all 17.5.0-1ubuntu1 [41.5 kB]
```



```

binodon@binodon-VirtualBox:~$ mitmproxy
Traceback (most recent call last):
  File "/usr/lib/python3/dist-packages/pkg_resources/__init__.py", line 574, in _build_master
    ws.require(__requires__)
  File "/usr/lib/python3/dist-packages/pkg_resources/__init__.py", line 892, in require
    needed = self.resolve(parse_requirements(requirements))
  File "/usr/lib/python3/dist-packages/pkg_resources/__init__.py", line 783, in resolve
    raise VersionConflict(dist, req).with_context(dependent_req)
pkg_resources.ContextualVersionConflict: (urwid 2.0.1 (/usr/lib/python3/dist-packages), Requirement.parse('urwid<1.4, >=1.3.1'), <set>)

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/usr/bin/mitmproxy", line 6, in <module>
    from pkg_resources import load_entry_point
  File "/usr/lib/python3/dist-packages/pkg_resources/__init__.py", line 3088, in <module>
    @_call_aside
  File "/usr/lib/python3/dist-packages/pkg_resources/__init__.py", line 3072, in _call_aside
    f(*args, **kwargs)
  File "/usr/lib/python3/dist-packages/pkg_resources/__init__.py", line 3101, in _initialize_master_working_set
    working_set = WorkingSet._build_master()
  File "/usr/lib/python3/dist-packages/pkg_resources/__init__.py", line 576, in _build_master
    return cls._build_from_requirements(__requires__)
  File "/usr/lib/python3/dist-packages/pkg_resources/__init__.py", line 589, in _build_from_requirements
    dists = ws.resolve(reqs, Environment())
  File "/usr/lib/python3/dist-packages/pkg_resources/__init__.py", line 778, in resolve
    raise DistributionNotFound(req, requirers)
pkg_resources.DistributionNotFound: The 'urwid<1.4, >=1.3.1' distribution was not found and is required by mitmproxy
binodon@binodon-VirtualBox:~$

```

Ip adress

```

binodon@binodon-VirtualBox:~$ ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:56:0b:b0 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 84227sec preferred_lft 84227sec
    inet6 fe80::c6b6:1b82:7921:8ccc/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

```