

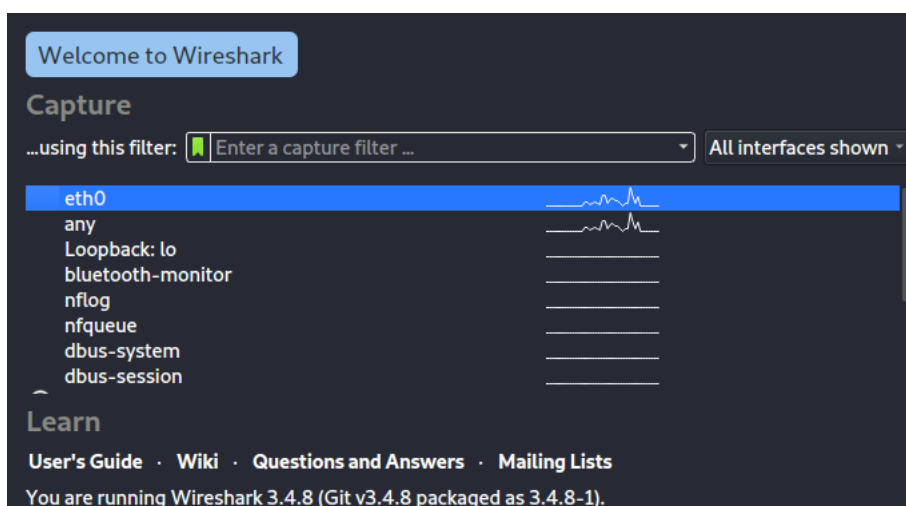
NETWORKING AND SYSTEM ADMINISTRATION LAB
WIRESHARK & NETCAT

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ROLL NO 23

sudo apt-get install wireshark

```
(reddevil@kali)~$ sudo apt-get install wireshark
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
The following additional packages will be installed:
  libbcb729-0 libc-ares2 libgnutls30 liblua5.2-0 libminizip1 libqt5multimedia5 libqt5multimedia5-plugins
  libqt5multimediagsttools5 libqt5multimediawidgets5 libqt5sprintsupport5 libsmi2ldbl libspandsp2 libwireshark-data
  libwireshark14 libwiretap11 libwsutil12 wireshark-common wireshark-qt
Suggested packages:
  gnutls-bin snmp-mibs-downloader geoipupdate geoip-database geoip-database-extra libjs-leaflet
  libjs-leaflet.markercluster wireshark-doc
The following NEW packages will be installed:
  libbcb729-0 libc-ares2 liblua5.2-0 libminizip1 libqt5multimedia5 libqt5multimedia5-plugins
  libqt5multimediagsttools5 libqt5multimediawidgets5 libqt5sprintsupport5 libsmi2ldbl libspandsp2 libwireshark-data
  libwireshark14 libwiretap11 libwsutil12 wireshark wireshark-common wireshark-qt
The following packages will be upgraded:
  libgnutls30
1 upgraded, 18 newly installed, 0 to remove and 512 not upgraded.
Need to get 25.1 MB of archives.
After this operation, 124 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ftp.harukasan.org/kali kali-rolling/main amd64 libgnutls30 amd64 3.7.2-2 [1,350 kB]
Get:2 http://ftp.harukasan.org/kali kali-rolling/main amd64 libbcb729-0 amd64 1.1.1-2 [33.1 kB]
Get:3 http://ftp.harukasan.org/kali kali-rolling/main amd64 libc-ares2 amd64 1.17.2-1 [104 kB]
Get:4 http://ftp.harukasan.org/kali kali-rolling/main amd64 liblua5.2-0 amd64 5.2.4-1.1+b3 [108 kB]
Get:5 http://ftp.harukasan.org/kali kali-rolling/main amd64 libminizip1 amd64 1.1-8+b1 [20.4 kB]
Get:6 http://ftp.harukasan.org/kali kali-rolling/main amd64 libqt5multimedia5 amd64 5.15.2-3 [287 kB]
Get:7 http://ftp.harukasan.org/kali kali-rolling/main amd64 libqt5multimediawidgets5 amd64 5.15.2-3 [44.1 kB]
Get:8 http://ftp.harukasan.org/kali kali-rolling/main amd64 libqt5multimediagsttools5 amd64 5.15.2-3 [101 kB]
Get:9 http://ftp.harukasan.org/kali kali-rolling/main amd64 libqt5multimedia5-plugins amd64 5.15.2-3 [156 kB]
Get:10 http://ftp.harukasan.org/kali kali-rolling/main amd64 libqt5sprintsupport5 amd64 5.15.2+dfsg-12 [231 kB]
Get:11 http://ftp.harukasan.org/kali kali-rolling/main amd64 libsmi2ldbl amd64 0.4.8+dfsg2-16 [123 kB]
Get:12 http://ftp.harukasan.org/kali kali-rolling/main amd64 libspandsp2 amd64 0.0.6+dfsg-2 [279 kB]
Get:13 http://ftp.harukasan.org/kali kali-rolling/main amd64 libwireshark-data all 3.4.8-1 [1,559 kB]
Get:14 http://ftp.harukasan.org/kali kali-rolling/main amd64 libwsutil12 amd64 3.4.8-1 [101 kB]
```

```
(reddevil@kali)~$ sudo dpkg-reconfigure wireshark-common
```



No.	Time	Source	Destination	Protocol	Length	Info
29	7.990850823	10.0.2.15	142.250.76.34	TCP	54	583
30	7.991143356	10.0.2.15	142.250.205.226	TCP	54	472
31	13.238462786	10.0.2.15	52.84.6.56	TCP	54	[TC
32	13.238861425	52.84.6.56	10.0.2.15	TCP	60	[TC
33	17.334396657	10.0.2.15	142.250.67.67	TCP	54	[TC
34	17.335486185	142.250.67.67	10.0.2.15	TCP	60	[TC

▶ Frame 1: 93 bytes on wire (744 bits), 93 bytes captured (744 bits) on interface
 ▶ Ethernet II, Src: RealtekU_12:35:02 (52:54:00:12:35:02), Dst: PcsCompu_21:53:0e
 ▶ Internet Protocol Version 4, Src: 142.250.195.67, Dst: 10.0.2.15
 ▶ Transmission Control Protocol, Src Port: 443, Dst Port: 51518, Seq: 1, Ack: 1, L
 ▶ Transport Layer Security

0000	08 00 27 21 53 0e 52 54	00 12 35 02 08 00 45 00	..!S·RT·..5·..E·
0010	00 4f 67 9f 00 00 40 06	b4 bd 8e fa c3 43 0a 00	·0g·...@·...·C·
0020	02 0f 01 bb c9 3e 1e 48	f7 00 61 6a ac cb 50 18	·...>·H·..aj·P·
0030	ff ff 53 0a 00 00 17 03	03 00 22 d1 62 6c 52 db	·S·...·..".b1R·
0040	50 05 71 a9 36 46 9f b3	41 b1 c8 ad 11 c6 c3 d8	P·q·6F·..A·.....
0050	93 4d 05 55 a1 0b 5f dd	a8 c9 8c bd d7	·M·U·.._·.....

● eth0: <live capture in progress> Packets: 34 · Displayed: 34 (100.0%) Profile: Default

Netcat

```

(reddevil@kali)-[~]
└─$ nc -z -v 10.0.2.255 20-80
10.0.2.255: inverse host lookup failed: Unknown host
(UNKNOWN) [10.0.2.255] 80 (http) : Network is unreachable
(UNKNOWN) [10.0.2.255] 79 (finger) : Network is unreachable
(UNKNOWN) [10.0.2.255] 78 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 77 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 76 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 75 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 74 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 73 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 72 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 71 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 70 (gopher) : Network is unreachable
(UNKNOWN) [10.0.2.255] 69 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 68 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 67 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 66 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 65 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 64 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 63 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 62 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 61 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 60 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 59 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 58 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 57 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 56 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 55 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 54 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 53 (domain) : Network is unreachable
(UNKNOWN) [10.0.2.255] 52 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 51 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 50 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 49 (tacacs) : Network is unreachable
(UNKNOWN) [10.0.2.255] 48 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 47 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 46 (?) : Network is unreachable
(UNKNOWN) [10.0.2.255] 45 (?) : Network is unreachable

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