

ADVANCED COMPUTER NETWORKS LAB ASSIGNMENT

TOPIC: - WireShark and Netcat installation

Submitted By:
Anilect Jose
Roll no: 17
S2 RMCA A

Submitted To:
Rini Kurian

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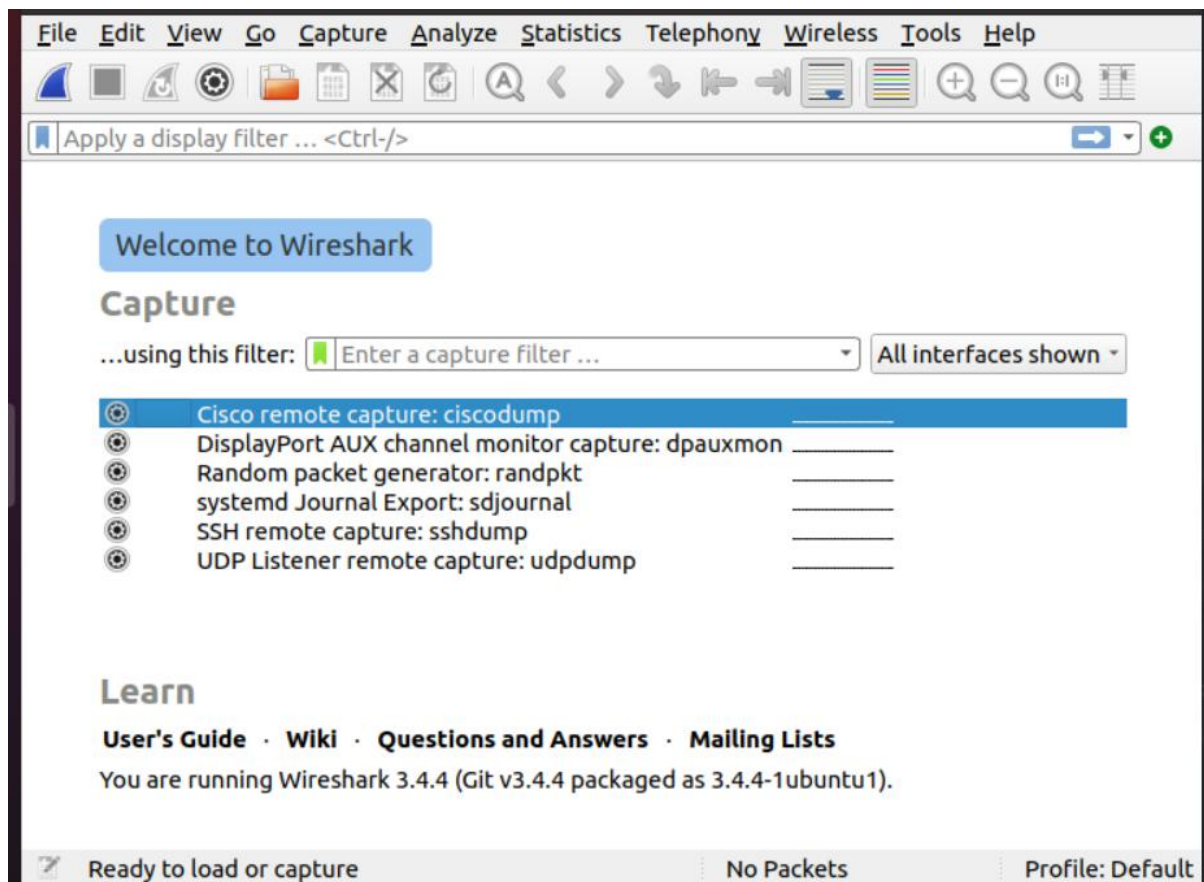
Wireshark Installation

sudo apt-get install wireshark

```
ani@KAJ: ~  
ani@KAJ:~$ sudo apt install wireshark-qt  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  libc-ares2 libdouble-conversion3 liblua5.2-0 libpcre2-16-0 libqt5core5a libqt5dbus5 libqt5gui5 libqt5multimedia5  
  libqt5multimedia5-plugins libqt5multimediastools5 libqt5multimediawidgets5 libqt5network5 libqt5opengl5  
  libqt5printsupport5 libqt5svg5 libqt5widgets5 libsmi2ldbl libsnappy1v5 libspandsp2 libssh-gcrypt-4 libwireshark-data  
  libwireshark13 libwiretap10 libwsutil11 libxcb-xinerama0 libxcb-xinput0 qt5-gtk-platformtheme qttranslations5-l10n  
  wireshark wireshark-common  
Suggested packages:  
  qt5-image-formats-plugins qtwayland5 snmp-mibs-downloader geoipupdate geoip-database geoip-database-extra  
  libjs-leaflet libjs-leaflet.markercluster wireshark-doc  
The following NEW packages will be installed:  
  libc-ares2 libdouble-conversion3 liblua5.2-0 libpcre2-16-0 libqt5core5a libqt5dbus5 libqt5gui5 libqt5multimedia5  
  libqt5multimedia5-plugins libqt5multimediastools5 libqt5multimediawidgets5 libqt5network5 libqt5opengl5  
  libqt5printsupport5 libqt5svg5 libqt5widgets5 libsmi2ldbl libsnappy1v5 libspandsp2 libssh-gcrypt-4 libwireshark-data  
  libwireshark13 libwiretap10 libwsutil11 libxcb-xinerama0 libxcb-xinput0 qt5-gtk-platformtheme qttranslations5-l10n  
  wireshark wireshark-common wireshark-qt  
0 upgraded, 31 newly installed, 0 to remove and 125 not upgraded.  
Need to get 32.9 MB of archives.  
After this operation, 163 MB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://archive.ubuntu.com/ubuntu focal/universe amd64 libdouble-conversion3 amd64 3.1.5-4ubuntu1 [37.9 kB]  
Get:2 http://archive.ubuntu.com/ubuntu focal/main amd64 libpcre2-16-0 amd64 10.34-7 [181 kB]  
Get:3 http://archive.ubuntu.com/ubuntu focal/universe amd64 libqt5core5a amd64 5.12.8+dfsg-0ubuntu1 [2005 kB]  
Get:4 http://archive.ubuntu.com/ubuntu focal/universe amd64 libqt5dbus5 amd64 5.12.8+dfsg-0ubuntu1 [208 kB]  
Get:5 http://archive.ubuntu.com/ubuntu focal/universe amd64 libqt5network5 amd64 5.12.8+dfsg-0ubuntu1 [674 kB]  
Get:6 http://archive.ubuntu.com/ubuntu focal/main amd64 libxcb-xinerama0 amd64 1.14-2 [5260 B]  
Get:7 http://archive.ubuntu.com/ubuntu focal/main amd64 libxcb-xinput0 amd64 1.14-2 [29.3 kB]
```

```
ani@KAJ: ~  
Setting up libqt5widgets5:amd64 (5.12.8+dfsg-0ubuntu1) ...  
Setting up qt5-gtk-platformtheme:amd64 (5.12.8+dfsg-0ubuntu1) ...  
Setting up libqt5multimedia5:amd64 (5.12.8-0ubuntu1) ...  
Setting up libqt5printsupport5:amd64 (5.12.8+dfsg-0ubuntu1) ...  
Setting up wireshark-qt (3.2.3-1) ...  
Setting up libqt5opengl5:amd64 (5.12.8+dfsg-0ubuntu1) ...  
Setting up wireshark (3.2.3-1) ...  
Setting up libqt5svg5:amd64 (5.12.8-0ubuntu1) ...  
Setting up libqt5multimediawidgets5:amd64 (5.12.8-0ubuntu1) ...  
Setting up libqt5multimediastools5:amd64 (5.12.8-0ubuntu1) ...  
Setting up libqt5multimedia5-plugins:amd64 (5.12.8-0ubuntu1) ...  
Processing triggers for mime-support (3.64ubuntu1) ...  
Processing triggers for hicolor-icon-theme (0.17-2) ...  
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...  
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for shared-mime-info (1.15-1) ...  
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...  
ani@KAJ:~$ sudo dpkg-reconfigure wireshark-common  
[sudo] password for ani:  
ani@KAJ:~$
```

Opening Wireshark



Netcat

nc -z -v 10.0.2.255 20-80

```
ani@KAJ:~$ nc -z -v 10.0.2.255 20-80
nc: connect to 10.0.2.255 port 20 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 21 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 22 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 23 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 24 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 25 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 26 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 27 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 28 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 29 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 30 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 31 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 32 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 33 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 34 (tcp) failed: Connection refused
nc: connect to 10.0.2.255 port 35 (tcp) failed: Connection refused
```