#### **NETWORKING & SYSTEM ADMINISTRATION LAB**

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## **Experiment No.: 22**

## Aim

Install and use the latest version of Wireshark on Ubuntu.

## **Procedure**

Step 1: First update the APT package repository cache with the following command.

## sudo apt update

```
mcagS46:-$ sudo apt update
Hit:1 http://in.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 https://dl.google.com/linux/chrome/deb stable InRelease [1,811 B]
Err:3 http://ppa.launchpad.net/jonathonf/python-3.6/ubuntu bionic InRelease
483 Forbidden [IP: 185.125.190.52 80]
Ign:4 https://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/3.6 InRelease
Get:5 https://dl.google.com/linux/chrome/deb stable/main amd64 Packages [1,097 B]
Hit:6 http://ppa.launchpad.net/jubuntu-mozilla-security/ppa/ubuntu bionic InRelease
Get:7 https://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/3.6 Release [2,495 B]
Hit:8 http://ppa.launchpad.net/webupd8team/java/ubuntu bionic InRelease
Get:9 https://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/3.6 Release.gpg [801 B]
Err:9 https://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/3.6 Release.gpg
The following signatures were invalid: EXPKEYSIG 58712A2291FA4AD5 MongoDB 3.6 Release Signing Key <packaging@mongodb.com>
Reading package lists... Done
E: Falled to fetch http://ppa.launchpad.net/jonathonf/python-3.6/ubuntu bionic InRelease 403 Forbidden [IP: 185.125.190.52 80]
E: The repository 'http://ppa.launchpad.net/jonathonf/python-3.6/ubuntu bionic InRelease' is no longer signed.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
W: An error occurred during the signature verification. The repository is not updated and the previous index files will be used. GPG error: https://repo.mongodb.org/apt/ubuntu trusty/mongodb-org/3.6 Release: The following signatures were invalid: EXPKEYSIG 58712A2291FA4AD5 MongoDB 3.6 Release Signing Key <packaging@mongodb.com>
```

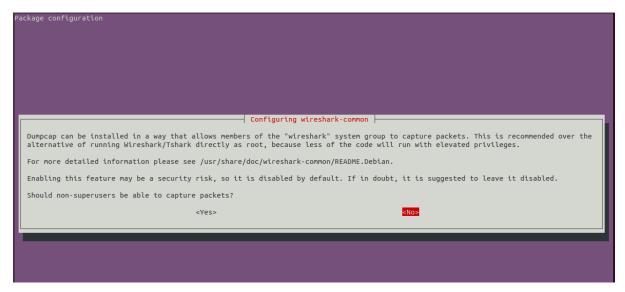
Step 2: Now, run the following command to install Wireshark on the Ubuntu machine

# > sudo apt install wireshark

Now press y and then press Enter.

```
mca@S46:-$ sudo apt install wireshark
Reading package lists... Done
Buliding dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
libpcre16-3 libpcre3-dev libpcre32-3 libpcrecpppvS libssl-dev libssl-doc php-common php-pear php-xml php7.2-cli php7.2-common php.7.2-opcache php7.2-readline php7.2-xml pkg-php-tools shtool
Use 'sudo apt autorenove' to renove them.
The following additional packages will be installed:
geoip-database-extra libc-ares2 libjs-openlayers libptsmultimedia5 libsmi2ldbl libsnappy1v5 libspandsp2 libssh-gcrypt-4 libwiresharki0 libwiretap7 libwscodecs1 libwsutl8 wireshark-common wireshark-qt
Suggested packages:
snmp-mibs-downloader wireshark-doc
The following NEW packages will be installed:
geoip-database-extra libc-ares2 libjs-openlayers libqt5multimedia5 libsmi2ldbl libsnappy1v5 libspandsp2 libssh-gcrypt-4 libwirestap4 libwiresharki0 libwiretap7 libwscodecs1 libwsutl8 wireshark wireshark-common wireshark-qt
Oupgraded, 16 newly installed, 0 to remove and 13 not upgraded.
Need to get 31.1 MB of archives.
After this operation, 138 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 geoip-database-extra all 20180315-1 [11.1 MB]
Get:2 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 libspandsp2 amd64 6.0.6-d5fgg-0.1 [273 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu bionic/wain amd64 libssh-gcrypt-4 amd64 0.8.0-2017865g-0.1 [273 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu bionic/wain amd64 libsnappy1v5 amd64 1.1.7-1 [16.0 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 libwireshark-data all 2.4.5-1 [50.2 kB]
Get:1 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 libwireshark-data all 2.4.5-1 [50.2 kB]
Get:1 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 libwireshark-data all 2.4.5-1 [173 kB]
Get:1 http://in.archive.ubuntu.com/ubuntu bionic/universe amd64 libwireshark-data all 2.4.5-1 [17
```

Step 3: By default, Wireshark must be started as root privileges in order to work. If you want to run Wireshark without root privileges or without sudo, then select **Yes** and press **Enter**.



Wireshark should be installed.

Step 4 : Now run the following command to add user to the **wireshark** group:

> sudo adduser \$mca wireshark

```
mca@S46:~$ sudo adduser $mca wireshark
adduser: The group `wireshark' already exists.
```

Step 5 : Finally, reboot our computer with the following command:

#### > sudo reboot

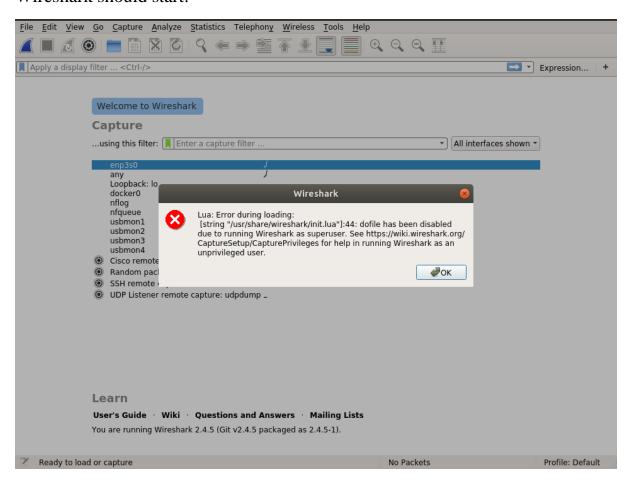
Step 6: Now that Wireshark is installed, you can start Wireshark from the Application Menu of Ubuntu.

If you did not enable Wireshark to run without **root** privileges or **sudo**, then the command should be:

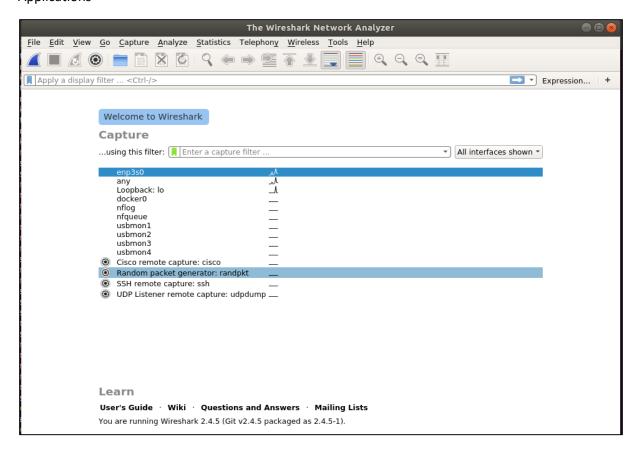
#### > sudo wireshark

```
mca@S46:~$ sudo wireshark
    OStandardPaths: XDG_RUNTIME_DIR not set, defaulting to '/tmp/runtime-root'
```

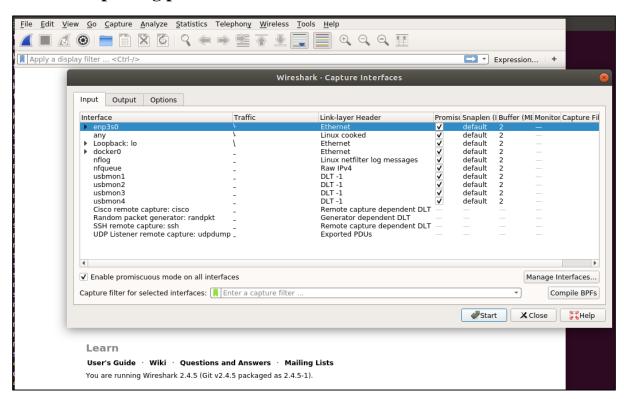
Wireshark should start.



Step 7: When we start Wireshark, you will see a list of interfaces that you can capture packets to and from.



Step 8: Now to start capturing packets, just select the interface and click on the **Start capturing packets** icon above.



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Step 9: We can capture packets on any network interface.

