# 20MCA136-NETWORKING & ADMINISTRATION LAB

# **WIRESHARK INSTALLATION**

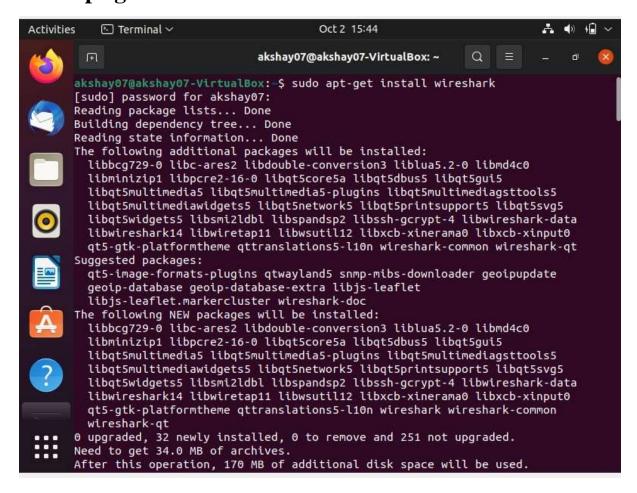
SUBMITTED BY,

AKSHAY MURALI MCA A BATCH ROLL NO-07

# **Wireshark Installation**

#### In terminal of ubuntu

### sudo apt-get install wireshark



#### sudo dpkg-reconfigure wireshark-common

```
akshay07@akshay07-VirtualBox:-$ sudo dpkg-reconfigure wireshark-common [sudo] password for akshay07:
akshay07@akshay07-VirtualBox:-$
```



#### sudo adduser \$USER wireshark

```
[sudo] password for aksnay07:

akshay07@akshay07-VirtualBox:-$ sudo adduser $USER wireshark

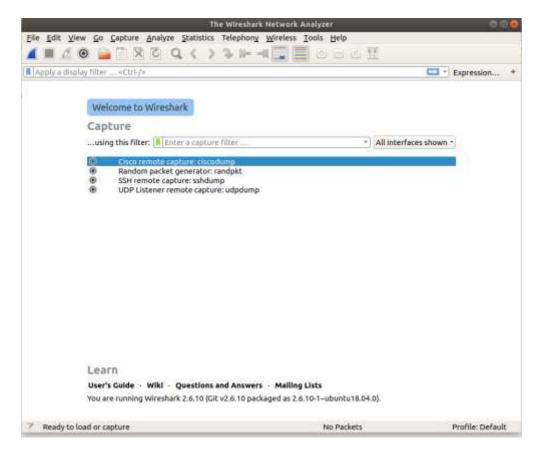
Adding user `akshay07' to group `wireshark' ...

Adding user akshay07 to group wireshark

Done.

akshay07@akshay07-VirtualBox:-$
```

Open Wireshark from Applications



#### Since showing

"couldn't run /usr/bin/dumpcap in child process

#### Use command

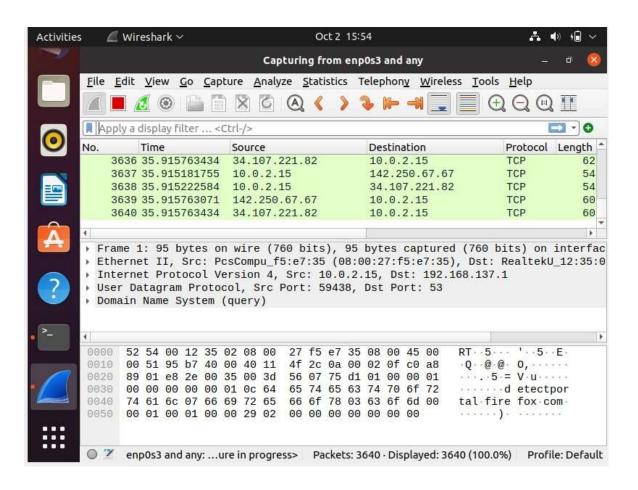
## sudo chmod +x /usr/bin/dumpcap

```
Done.
akshay07@akshay07-VirtualBox:-$ sudo chmod +x /usr/bin/dumpcap
akshay07@akshay07-VirtualBox:-$
```

## Capturing Data Packets on Wireshark

When you open Wireshark, you see a screen that shows you a
list of all of the network connections you can monitor. You also
have a capture filter field, so you only capture the network
traffic you want to see.

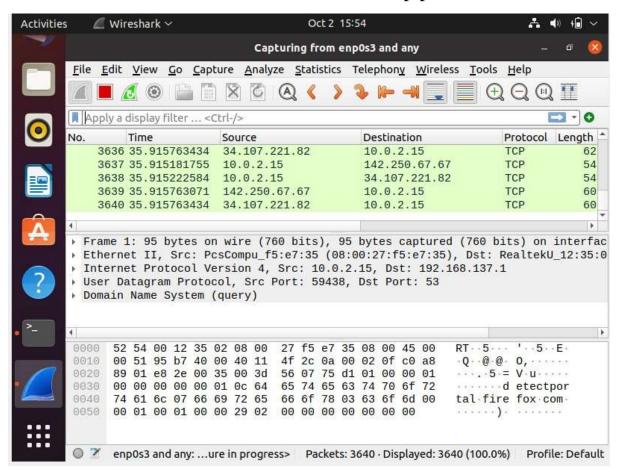
- You can select one or more of the network interfaces using "shift left-click." Once you have the network interface selected, you can start the capture, and there are several ways to do that.
- Click the first button on the toolbar, titled "Start Capturing Packets."



#### **Analyzing Data Packets on Wireshark**

• Wireshark shows you three different panes for inspecting packet data. The Packet List, the top pane, is a list of all the packets in the capture. When you click on a packet, the other two panes change to show you the details about the selected packet. You

can also tell if the packet is part of a conversation. Here are some details about each column in the top pane:



#### In panel

- **No.**: This is the number order of the packet that got captured. The bracket indicates that this packet is part of a conversation.
- **Time**: This column shows you how long after you started the capture that this packet got captured. You can change this value in the Settings menu if you need something different displayed.
- **Source**: This is the address of the system that sent the packet.
- **Destination**: This is the address of the destination of that packet.
- **Protocol**: This is the type of packet, for example, TCP, DNS, DHCPv6, or ARP.

- **Length**: This column shows you the length of the packet in bytes.
- **Info**: This column shows you more information about the packet contents, and will vary depending on what kind of packet it is.

Find details of a particular packet by clicking that on first panel Details can take on the below panels or new window

Find the fields from 3 rd panel by clicking them and the field will automatically select from 2 nd panel

#### Some fieldS

