AIM: Experiments on Packet capture tool: Ialgreshank

Packet Sniffer

# Sniffs messages being sent/received from/by

\* store and display the contents of the various Protocal fields in the messages.

\* Passive parogram.

> nevor sonds packets intself

-> no packets adobussed to it

> receives a copy of all packets Leent/received)

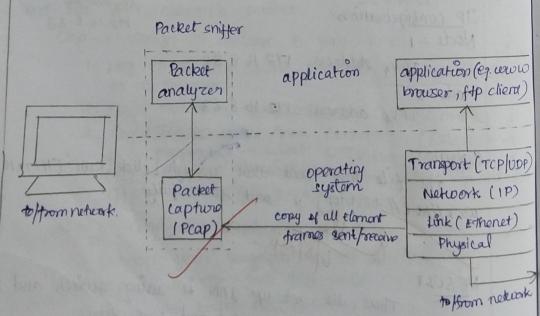
Packet Sniffer structure siaganostic. Tods:

\* Topdump

> \$: tcpdump-exn hoot 10.129.41.2-10.

\* Wireshauk

> wireshark - r- exe 3. out.



Wheshark

\* Whereshark, a network analyse tool formerly known as Ethereal, captures packets in real time and display that in human-relatable format.

what we can do with wireshark?

\* Capture network traffic

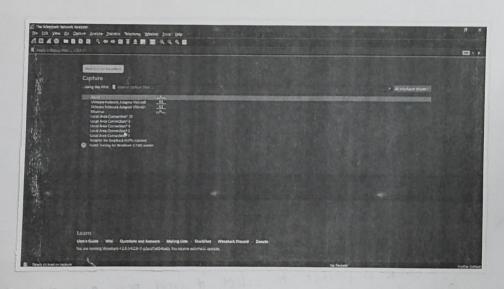
\* Decode packet Protocals using dissectors

## wheshark used for:

\* Network administrators: trouble shoot network problems \* Network security engineers: examine security problems

Captiving Packets

\* After downloading and installing, launch it and double-click the name of a network interface under capture to start capturing packets on that interface.



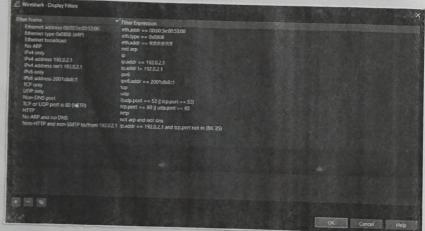
## color coding

\* wireshark uses who to help you identify the types of traffic at a glance. By default, light purple is top traffic, and black identifiers packets with errors



Altering packets

Pnto the filter box at the top of the window and clicking apply.



Inspecting Paulots

\* chick a packet to select it and you can dig down to



## Student Observation:

- 1. What is promiseuous made?
  - -> It refers to setting that allows the notwork interface could to capture all network traffic on the segment it is connected.
- 2. 2003 APP packets has transport layer header? Explain.

  => It do not have a transport layer header. they operate
  at the data link layer (layer 2) and are used for mapping
  IP address to MAC address.
- 3. which transport tayer protocal is used DNS?
  - → uses UDP as its transport layer protocal on port 53
- 4 what is the port number used by http protocal?
  - THITP protocal uses port number so for communication over the web.
- 5 what & a broadcast ip address?
  - Packet to all device in network segment.

Thus, whreshark tool has been experiments on packet captured and studied.