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BATCH : COMPUTER ENGINEERING

LOURSE: INFORMATION SECURITY LABORATORY

WURSE WOFE: DJ19CEL603

## EXPERIMENTIO

Using wireshaule.

THEORY! Packet sniffers intercept packets of data flowing across a computer remosts in order to view their content in. This act is called packet sniffing.

webpajes and emails one not sent theorgh the Internet as one document mather, the sending side breaks them down into many little data plackets. These parkets are then addressed to an IP address at the receiving end, which has to send back an addressed ment of each parket it receives.

These parkets our not fransferred from
the sender to the receiver through a single
to direct connection. Instead as each parket
traverses, the internet enroute to its destination
it passes through a no-of traffic control derices
such as routers and switches. Each time a

a padet poses through one of these traffic control devices, it is suspectible to capture by analysis. Wirestrack smart sniff are examples of padet sniffing tools. capture & sniffed 19 traffic viry wireshack a apaint engineer out a minus in



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Academic Year: 2022-2023

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Sap Id:	60004220127
Class:	T. Y. B. Tech (Computer Engineering)
Course:	Information Security Laboratory
Course Code:	DJ19CEL603
Experiment No.:	10

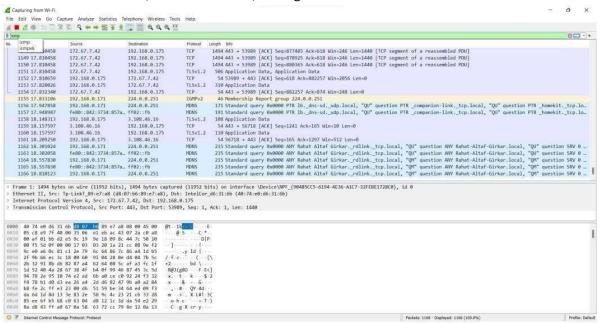
**AIM:** Perform Packet Capture and Sniff IP traffic using Wireshark.

## **Capturing ICMP Packets:**

C:\Users\Marwin Shroff>ping 8.8.8.8 Pinging 8.8.8.8 with 32 bytes of data: Reply from 8.8.8.8: bytes=32 time=5ms TTL=119

Reply from 8.8.8.8: bytes=32 time=6ms TTL=119 Reply from 8.8.8.8: bytes=32 time=2ms TTL=119 Reply from 8.8.8.8: bytes=32 time=3ms TTL=119 Ping statistics for 8.8.8.8:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 2ms, Maximum = 6ms, Average = 4ms





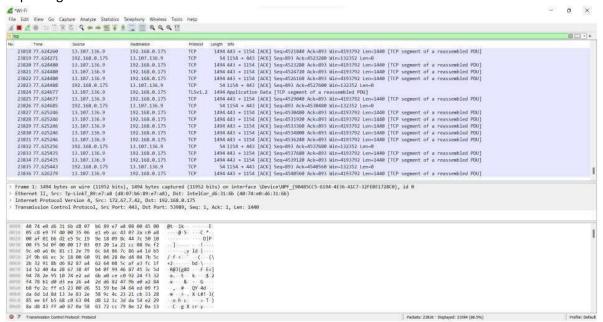
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#### Capturing TCP Packets:



#### **Capturing FTP Packets:**

C:\Users\Marwin Shroff>ftp ftp.cdc.gov Connected to ftp.cdc.gov. 220 Microsoft FTP Service 200 OPTS UTF8 command successful - UTF8 encoding now ON. User (ftp.cdc.gov:(none)): anonymous

331 Anonymous access allowed, send identity (e-mail name) as password. Password: 230 User logged in.

## ftp> Is

200 PORT command successful.

150 Opening ASCII mode data connection.

.change.dir .message pub Readme

Siteinfo w3c welcome.msg 226 Transfer complete. ftp: 67 bytes received in 0.03Seconds 2.03Kbytes/sec.

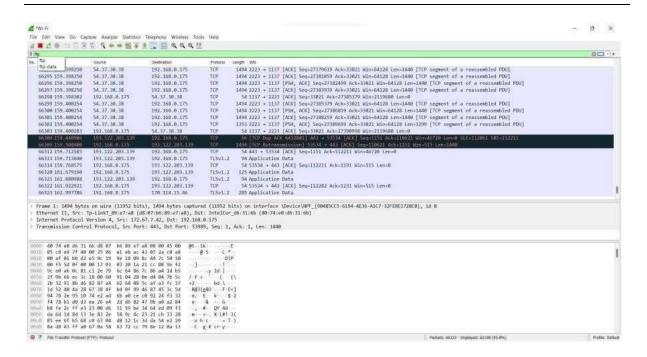


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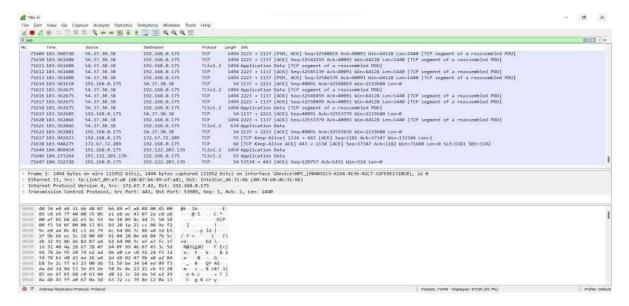


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#### Capturing ARP Packets:





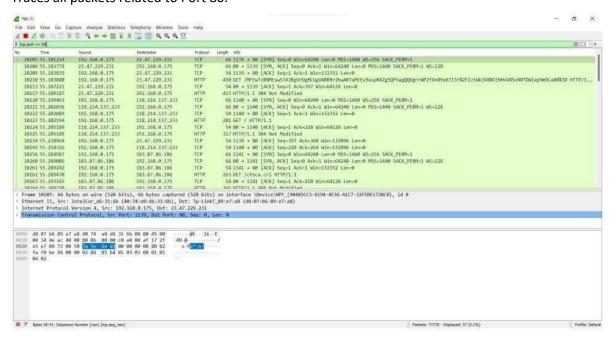
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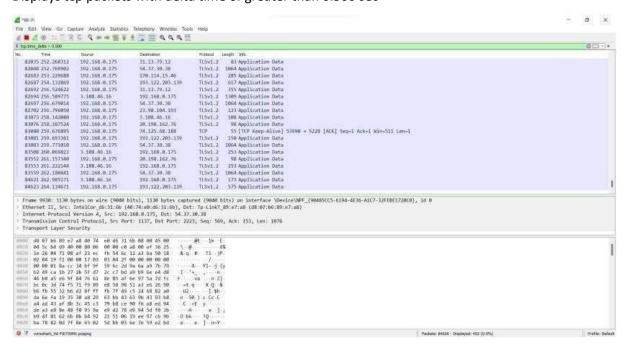
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# B] Tracing Packets based on filters: 1] Filter Results by Port: Traces all packets related to Port 80.



## 2] Filter by Delta Time:

Displays tcp packets with delta time of greater than 0.500 sec





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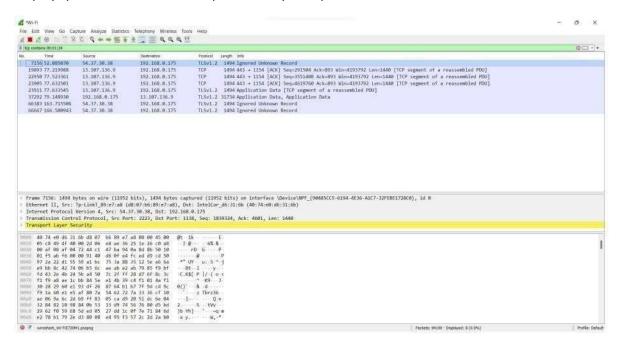


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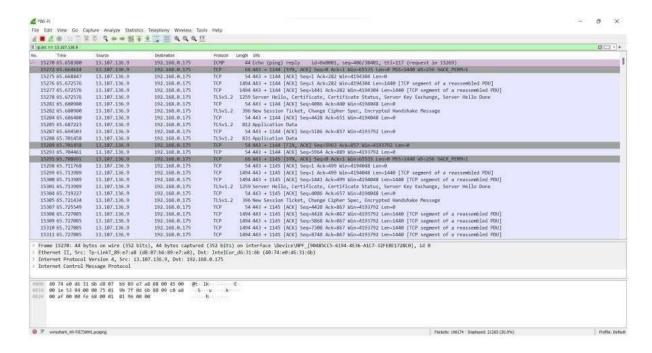
## 3] Filter by Byte Sequence:

Displays packets which contain a particular byte sequence.



## 4] Filter by Source IP Address:

Displays packets which have source IP address same as the one provided in the argument.



**CONCLUSION:** Thus, we have successfully studied packet sniffing tools (Wireshark) and explored how packets can be traced based on different filters