Exp. No. 4

Date: 4.8.25

AIM! Experiments on Packet capture tool - Wirushark

WIRESHARK

It is a network analysis tool formerly known as Ethereal, captures packets in seal the and desplay them in human-suadably format.

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CAPTURING AND ANALYSING PACKETS USING WIRESHARK TOOLS JOHN SELLES HUNGER

Welcome to Wireshark				
Capture				
using this filter: 🔻 Enter a capture filte	F		()	
Wi-Fi	- Ad	N		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ethernet 2 Adapter for loopback traffic captur		- Charles		
Bluetooth Network Connection Local Area Connection* 9				
Ethernet				
Event Tracing for Windows (ETW) re	:ader			
				the state of the state of

- * Create a filter to display only TCP/UDP packets, enspect the packets
 - Select Local Area Connection
 - Groto capture -> option
 - Select stop capture automatically after 100 packets click start capture

 - sewich TCP packets in Search down

* create a felter to display only ARP packets and anspect the packets

- Broto capture > operan
 - select stop capture automatically after 100 packets
 - Then click Start capture
 - Search ARP packets in search bar

10.	Time	Source	Certenton		
	6 0.255305	Foxconn_c9:c5:f0	Destination	Protocol	Length Info
	14 0.692936	Foxconn_d0:ac:46 Foxconn_c9:c9:91 Foxconn_d0:ac:46 Giga-Byt_92:d2:ef Giga-Byt_7c:c5:34 Foxconn_c9:c8:24 Dell_35:11:11	Broadcast	ARP	60 kho has 172.16.10.15? Tell 172.16.10.3
	19 1.418424		Broadcast Broadcast Broadcast Broadcast Broadcast Broadcast Broadcast	ARP	60 kmo has 172.16.8.39? Tell 172.16.10.8
	24 1.888729			ARP	60 Who has 172.16.8.106? Tell 172.16.10.26
	27 2.029517			ARP	60 Who has 172.16.8.40? Tell 172.16.10.8
	41 2.509905			ARP	60 Who has 172.16.10.33? Tell 172.16.10.1
	44 2.602358			ARP ARP	60 lino has 172.16.9.82? Tell 172.16.9.111
	46 2.743021				60 Who has 172.16.8.139? Tell 172.16.9.1
					60 libo has 122 to 8 210 7 12 16.10.22
	56 3.201822	Giga-Byt_92:d2:ef	Broadcast	ARP	60 Who has 172.16.8.118? Tell 172.16.10.19
	60 3.237061	Dall 36411411	Broadcast	ARP	60 Who has 172.16.10.34? Tell 172.16.10.1
	71.7.438062				60 Who has 172.16.9.82? Tell 172.16.9.111
Fr	ame 119: 42 byt	es on wire (336 bits),	42 bytes captured (336 bits)	CO (at-of-
	,	THEFT 12:60:15 (88	:27:0e:13:ed:7c). D:	t: Realtek	on interface 0 (5_b2:60:90 (00:e0:4c:b2:60:90)
> Ad	dress Resolutio	n Protocol (reply)	Office and the second second		3_02:60:90 (00:e0:4c:b2:60:90)

scene the Parkill.

* Create a fêlter to desplay only DNS
packets

- Groto capture > option

Select stop capture automatically after 100 packets

- Then check start capture - Then check start capture - Search DNS packets in Search box
- The following the following the first product of the following the follo
- * create a fester to desplay only HTTP packets and enspect the packets

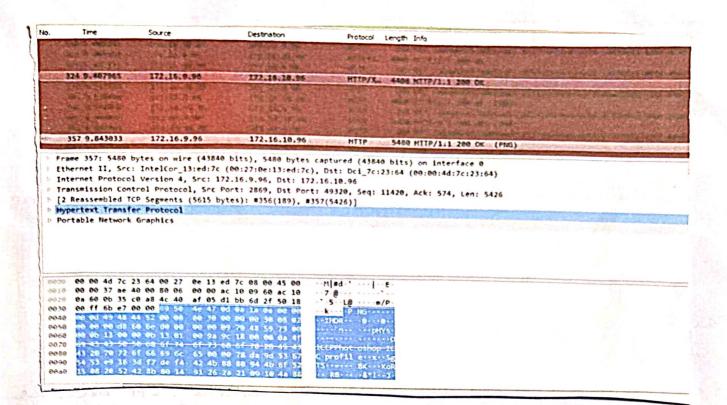
toke apiens surgentiful

- Select Local Area Connection in Wireshark
- Goto capture > option
- Select stop capture automatically after 100 packets
- CLPCK Start capture
- Search HTTP packets in search bour

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- save the packets.



* create a fester to desplay only

DHCP packets and inspect the packets

- Select Local Area connection

- Goto -> apture -> option

- Select stop capture after 100 packets

Search DHCP packets in search box

Save the packets.

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analysed of

STUDENT OBSERVATION

- 1. What is promiscuous mode?
- A) It is a notworking setting that allow, a network adapter to capture all data packets on a network.
- 2. Does ARP packets has transport layer header? Explain.
- A) NO, ARP packets do not have TLH because ARP operates at data lenk layer.
- 3. Which transport layer protocol Es used by DNS?
 - 4) Uses UDP for speed port 53. TCP for larger data transfer.
- 4. What is the port no. used by HTTP prietece
 A) standard port Ps port 80'.
- 5. What is a broadcast IP address.
- A) A special address used to send a single message to all devices on a specific network somultaneously.

RESULT!

Hence the experiments conducted in wereshark was successful and packets were captured and analysed