MAWLANA BHASHANI SCIENCE AND TECHNOLOGY UNIVERSITY



DEPARTMENT OF ICT

Lab Report No: 02

Course Code : ICT-3208

Course Title : Network Planning and Designing Lab

Lab Report Name: Wireshark Lab

Submitted by	Submitted to
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3rd Year 2 nd Semester	

Objective

- : 1. Wireshark basic and it's features.
 - 2.How to work with wireshark?
 - 3. Protocol Analysis with wireshark

1. What is Wireshark? Why we use wireshark?

Ans: Wireshark:

- Wireshark is a network protocol analyzer.
 - Captures network packets
 - displays packet data in details
- First released in 1998 by Geralds Combs as Ethereal many contributors around the world.
- Open source and free software.
- Graphical alternative to tcpdump.

Why use wireshark: We use wireshark because -

Wireshark is a powerful tool for -

- i. Troubleshooting network problems
- ii. examining security problems
- iii. debugging protocol implementations iv.

learning network protocols internals.

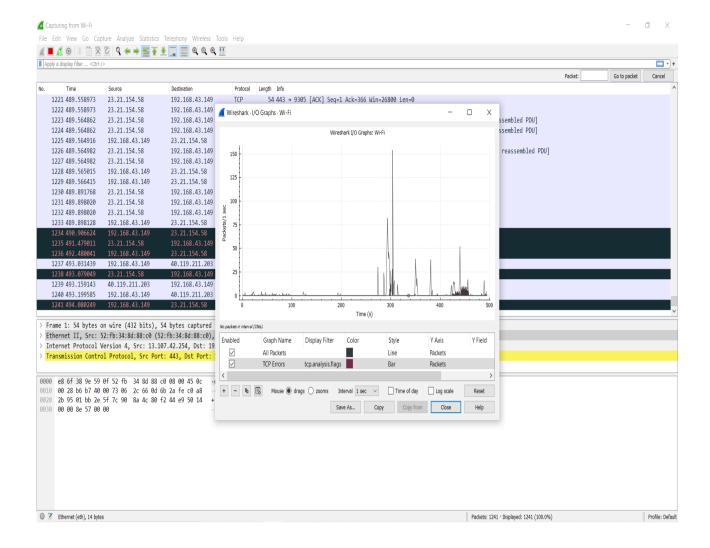
2. What are the main features of wireshark?

Ans: The main features of wireshark is:

- i. Capture live traffic
 - -data can be captured on wired or wireless medium.
 - -numerous protocols can be captured and analyzed.
- ii. Display packet in details iii. Open files containing packet data captured. -from other programs(tcpdump/winDump). iv.Filtering is essential when dealing with lots of packets.
 - -filters can be applied on protocols, fields, values etc. -filtering while capturing packets is possible.

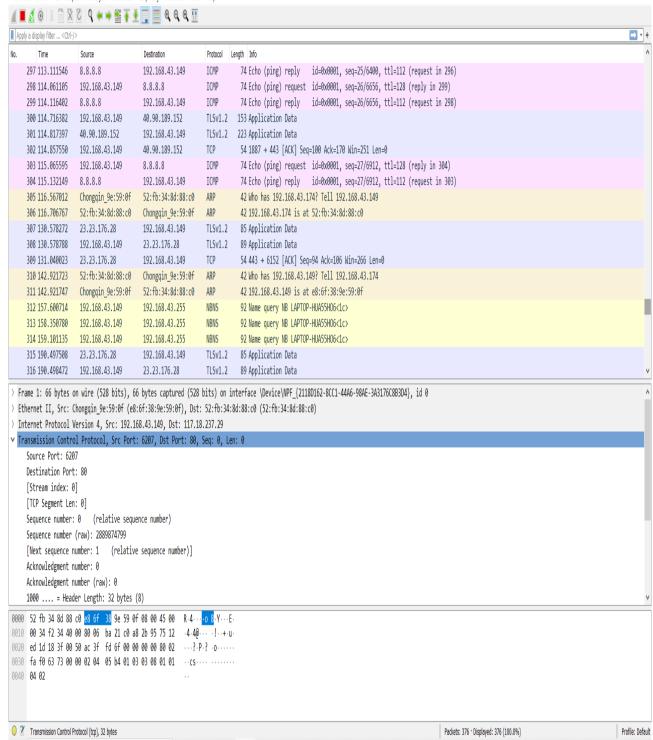
3. Ping information & captured packet: ping 8.8.8.8 in powershell

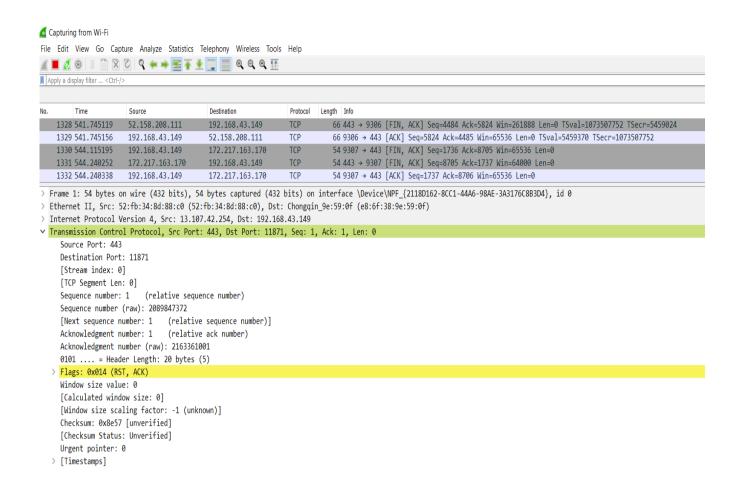
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67 52:fb:34:8d:88:c0 Chongqin_9e:59:0f ARP 42 192.168.43.174 is at 52:			12	Chongqin_9e:59:0f	52:fb:34:8d:88:c0	ARP	42 Who has 192.168.43.174?
			67	52:fb:34:8d:88:c0	Chongqin_9e:59:0f	ARP	42 192.168.43.174 is at 52:



4. The protocol information:

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help





5. Port Security Hashing Algorithm:

0030	99	3е	91	f2	aa	99	26	ca	79	60	65	h3	35	d0	4 c	4e	-> <mark>&- y`e-5-LN</mark>
0040							40							51			·"·q··@·\$···=Q<·
0050							53							82			DJ·····S· ···49·"&
0060							bc							7b			# kp;{qa
0070							c1							22			jqNT."
0080							b4							c3]D
0090							0d							a3			I.Y#
00a0							34							d5			c·We·U4} ··!····
00b0							91							1f			··x····n ac'I····
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00e0							9c							0e			.%Ki ⋅C:OR
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0100	50	1c	da	8d	5c	85	22	99	96	f4	c0	76	c2	2c	1a	f7	P\."v.,
0110	51	fd	66	f1	с8	42	59	9e	da	5b	f8	80	а3	2b	0с	70	$Q \cdot f \cdot \cdot BY \cdot \cdot [\cdot \cdot \cdot + \cdot p]$
0120	b9	78	9b	3b	55	98	6c	79	09	d8	с6	cf	b9	51	60	9e	·x·;U·ly ·····Q`·
0130	52	f6	ca	15	c0	07	90	66	f9	0d	13	16	c0	05	4d	e2	R · · · · · · f · · · · · · M ·
0140	5d	4a	53	5e	b9	22	fb	30	ed	81	7e	e5	92	4f	06	28]JS^.".0~0·(
0150	f8	3f	e0	f0	33	30	5c	7b	cc	59	49	1b	80	de	91	с0	·?··30\{ ·YI·····
0160	74	За	a6	f0	05	a4	2f	82	6b	82	84	32	d0	91	65	d9	t:····/· k··2··e·
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0180	71	91	с6	20	c5	ea	95	0d	2c	28	3е	46	d9	7c	10	00	q ,(>F.
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01a0							99							e5			UA1t·J·B F·····
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01c0							c5							26			&;.A7 +9.A\&_Q
01d0							d8							0a			·· <e@··· td="" wx·{····<=""></e@···>
01e0							3b							1e			·6h···;D ·m@····=
01f0							36							27			·L··`·67 z·x·8'··
0200							25							b7			J%"M
0210							84							d2)-K·*··L N;R·W···
0220							c8							af			K∙Da···a ··lBX·8e
0230							9f							89			
0240							11							b2			6···e··· <·3····· ····· H··F···p
0250							17							d1			····i··· ·C··U···
0260							96 16							ee			
0270														7d			···=[=·· 7···8}=·
0280 0290							c9 ea							7c 06			··C··E·· "y·)h t?
0290 02a0							3a							49			Cw·9··:\ ··S··I··
02b0							93							5b			! Gp[k.
02c0							53							2f			x9·· <ys· td="" ·*<="" ···l·=""></ys·>
02d0							30							01			·I··k·00 · ·\$C···
02e0							f8							0c			·@·?·F·t ·····~
0200	ao	40	UΙ	71	-10	40	-10	74	00	a)	-00	UZ	TC	-OC	0)	/ (100

6. Different Statistics: Wi_Fi file capture

Details

File

Name: C:\Users\USER\AppData\Local\Temp\wireshark_Wi-Fi_20200804211509_a01608.pcapng

Length: 24 kB

Hash (SHA256): 4a3e04fe356cd42feec021b0783dfd5fe39b096c76f1d7ead62b2fcea15c3b89

 Hash (RIPEMD160):
 c09df01ea64e532c2fed5079cee65dd1a640a9cb

 Hash (SHA1):
 e231768d84970f9830ff8449ad51c083aa64de6e

Format: Wireshark/... - pcapng

Encapsulation: Ethernet

Time

First packet: 2020-08-04 21:15:18
Last packet: 2020-08-04 21:15:44
Elapsed: 00:00:26

Capture

Hardware: Intel(R) Core(TM) i3-10110U CPU @ 2.10GHz (with SSE4.2)

OS: 64-bit Windows 10 (1909), build 18363

Application: Dumpcap (Wireshark) 3.2.5 (v3.2.5-0-ged20ddea8138)

Interfaces

 Interface
 Dropped packets
 Capture filter
 Link type
 Packet size limit

 Wi-Fi
 Unknown
 none
 Ethernet
 262144 bytes

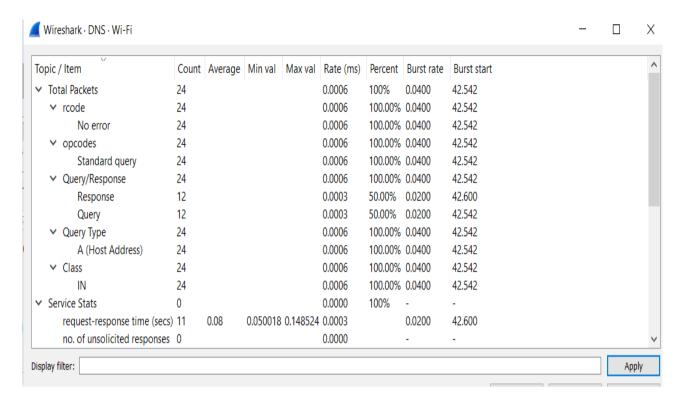
Statistics

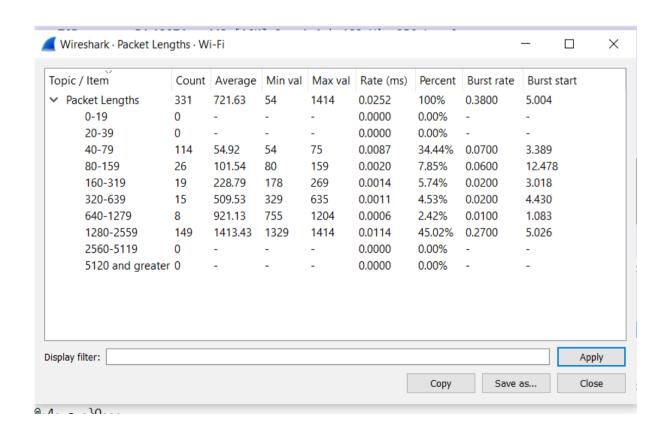
Measurement	Captured	Displayed	Marked
Packets	106	106 (100.0%)	_
Time span, s	26.030	26.030	_
Average pps	4.1	4.1	_
Average packet size, B	190	190	_
Bytes	20135	20135 (100.0%)	0
Average bytes/s	773	773	_
Average bits/s	6188	6188	_

■ Wireshark · Protocol Hierarchy Statistics · Wi-Fi

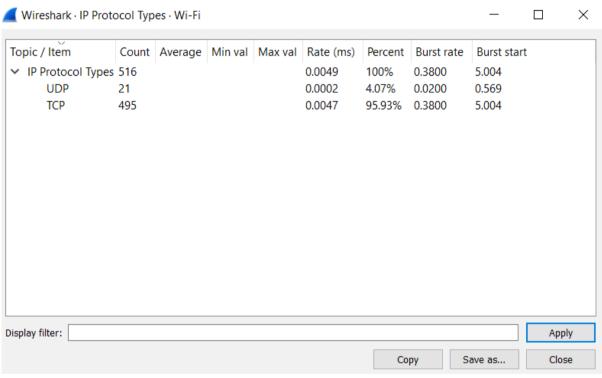
Protocol	Percent Packets	Packets	Percent Bytes	Bytes	Bits/s	End Packets	End Bytes	End Bits/s
✓ Frame	100.0	739	100.0	330333	11 k	0	0	0
✓ Ethernet	100.0	739	3.1	10346	345	0	0	0
 Internet Protocol Version 4 	99.2	733	4.4	14660	489	0	0	0
 User Datagram Protocol 	5.3	39	0.1	312	10	0	0	0
Simple Service Discovery Protocol	1.1	8	0.4	1392	46	8	1392	46
NetBIOS Name Service	2.0	15	0.2	750	25	15	750	25
Domain Name System	2.2	16	0.2	825	27	16	825	27
 Transmission Control Protocol 	93.9	694	91.4	301880	10 k	462	229342	7661
Transport Layer Security	30.7	227	86.0	284244	9496	222	231373	7729
Data	1.4	10	0.0	10	0	10	10	0
Address Resolution Protocol	0.8	6	0.1	168	5	6	168	5

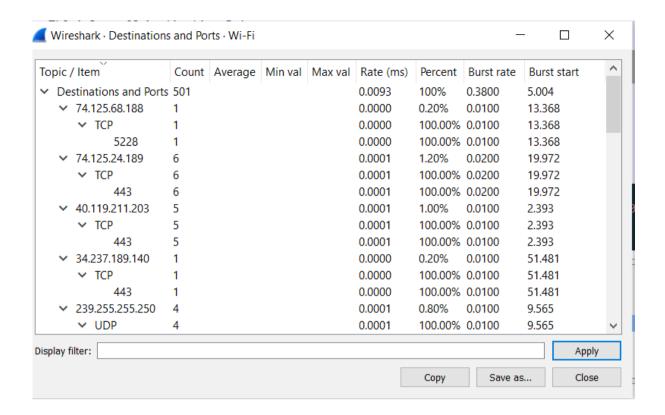
7. DNS



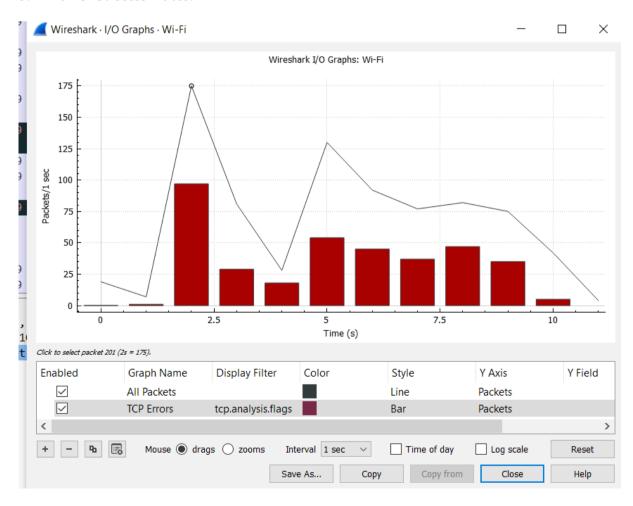


8. Protocl have been used:





9. Error & Success Rates:



10. Real time Response:

