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Lab Report No : 07

Lab Report On : Install Wireshark in Linux

Introduction:

Wireshark is a network packet analyzer. It captures every packet getting in or out of a network interface and shows them in a nicely formatted text. It is used by Network Engineers all over the world.

Wireshark is cross platform and it is available for Linux, Windows and Mac OS. You get the same user experience in any operating system you use.

Installing Wireshark:

Wireshark is available in the official package repository of Ubuntu 14.04 LTS and later. So it is really easy to install.

Ping information & captured packet: ping 8.8.8.8 in powershell

Administrator: Windows PowerShell

Windows PowerShell

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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\windows\system32> ping 255.255.255.255

Ping request could not find host 255.255.255.255. Please check the name and try again.

PS C:\windows\system32> ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:

Reply from 8.8.8.8: bytes=32 time=262ms TTL=112

Reply from 8.8.8.8: bytes=32 time=55ms TTL=112

Reply from 8.8.8.8: bytes=32 time=55ms TTL=112

Reply from 8.8.8.8: bytes=32 time=66ms TTL=112

Ping statistics for 8.8.8.8:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 55ms, Maximum = 262ms, Average = 109ms

PS C:\windows\system32>

1	192.168.43.149	13.107.4.254	TCP	54 6208 → 443 [ACK] Seq=452
1	192.168.43.149	13.107.4.254	TLSv1.2	92 Application Data
5	13.107.4.254	192.168.43.149	TCP	92 [TCP Retransmission] 443
5	13.107.4.254	192.168.43.149	TLSv1.2	544 Application Data
5	13.107.4.254	192.168.43.149	TLSv1.2	230 Application Data
5	13.107.4.254	192.168.43.149	TLSv1.2	92 Application Data
5	13.107.4.254	192.168.43.149	TLSv1.2	92 Application Data
0	192.168.43.149	13.107.4.254	TCP	54 6206 → 443 [ACK] Seq=674
2	192.168.43.149	13.107.4.254	TLSv1.2	92 Application Data
8	13.107.4.254	192.168.43.149	TCP	54 443 → 6206 [ACK] Seq=117
5	13.107.4.254	192.168.43.149	TCP	54 [TCP Previous segment no
5	13.107.4.254	192.168.43.149	TCP	92 [TCP Retransmission] 443
1	192.168.43.149	13.107.4.254	TCP	54 6208 → 443 [ACK] Seq=490
83	192.168.43.149	8.8.8.8	ICMP	74 Echo (ping) request id=
27	8.8.8.8	192.168.43.149	ICMP	74 Echo (ping) reply id=
19	192.168.43.149	8.8.8.8	ICMP	74 Echo (ping) request id=
46	8.8.8.8	192.168.43.149	ICMP	74 Echo (ping) reply id=
05	192.168.43.149	8.8.8.8	ICMP	74 Echo (ping) request id=
02	8.8.8.8	192.168.43.149	ICMP	74 Echo (ping) reply id=
82	192.168.43.149	40.90.189.152	TLSv1.2	153 Application Data
97	40.90.189.152	192.168.43.149	TLSv1.2	223 Application Data
50	192.168.43.149	40.90.189.152	TCP	54 1887 → 443 [ACK] Seq=100
05	192.168.43.149	8.8.8.8	ICMP	74 Echo (ping) request id=
49	8.8.8.8	192.168.43.149	ICMP	74 Echo (ping) reply id=
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:

Capturing from Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help



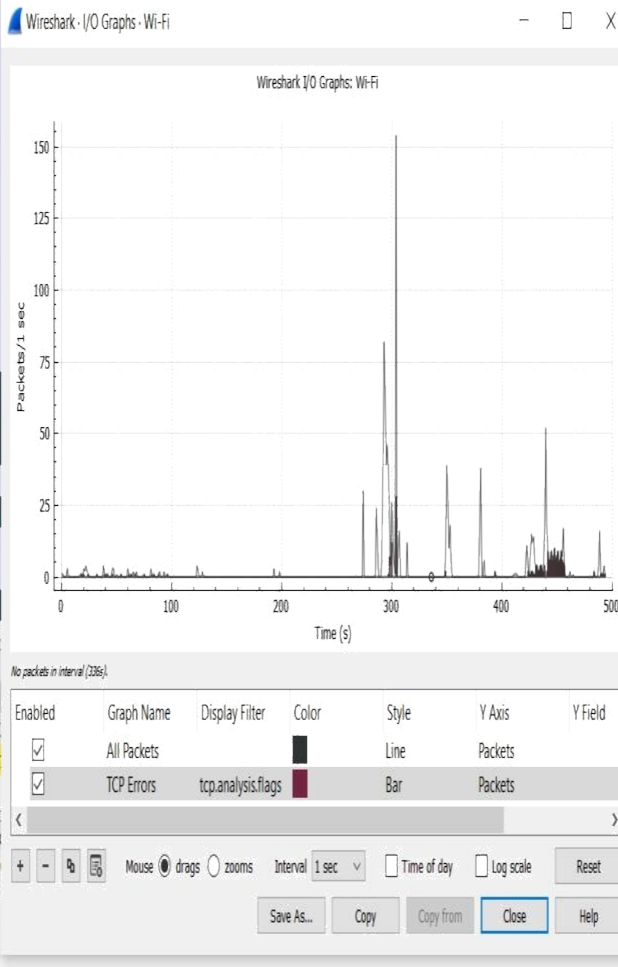
Apply a display filter ... <Ctrl-F>

Packet: Go to packet Cancel

No.	Time	Source	Destination	Protocol	Length	Info
1221	489.558973	23.21.154.58	192.168.43.149	TCP	54	443 → 9305 [ACK] Seq=1 Ack=366 Win=26800 Len=0
1222	489.558973	23.21.154.58	192.168.43.149			
1223	489.564862	23.21.154.58	192.168.43.149			
1224	489.564862	23.21.154.58	192.168.43.149			
1225	489.564916	192.168.43.149	23.21.154.58			
1226	489.564982	23.21.154.58	192.168.43.149			
1227	489.564982	23.21.154.58	192.168.43.149			
1228	489.565015	192.168.43.149	23.21.154.58			
1229	489.566415	192.168.43.149	23.21.154.58			
1230	489.891768	23.21.154.58	192.168.43.149			
1231	489.898020	23.21.154.58	192.168.43.149			
1232	489.898020	23.21.154.58	192.168.43.149			
1233	489.898128	192.168.43.149	23.21.154.58			
1234	490.906624	192.168.43.149	23.21.154.58			
1235	491.479011	23.21.154.58	192.168.43.149			
1236	492.480041	192.168.43.149	23.21.154.58			
1237	493.031439	192.168.43.149	40.119.211.203			
1238	493.079049	23.21.154.58	192.168.43.149			
1239	493.159143	40.119.211.203	192.168.43.149			
1240	493.199585	192.168.43.149	40.119.211.203			
1241	494.080249	192.168.43.149	23.21.154.58			

> Frame 1: 54 bytes on wire (432 bits), 54 bytes captured
> Ethernet II, Src: 52:fb:34:8d:88:c0 (52:fb:34:8d:88:c0),
> Internet Protocol Version 4, Src: 13.107.42.254, Dst: 19
> Transmission Control Protocol, Src Port: 443, Dst Port:

0000 e8 6f 38 9e 59 0f 52 fb 34 8d 88 c0 08 00 45 0c
0010 00 28 b6 b7 40 00 73 06 2c 66 0d 6b 2a fe c0 a8
0020 2b 95 01 bb 2e 5f 7c 90 8a 4c 80 f2 44 e9 50 14
0030 00 00 8e 57 00 00



Ethernet (eth), 14 bytes

Packets: 1241 · Displayed: 1241 (100.0%)

Profile: Default

The protocol information :

Capturing from Wi-Fi

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl>

No.	Time	Source	Destination	Protocol	Length	Info
297	113.111546	8.8.8.8	192.168.43.149	ICMP	74	Echo (ping) reply id=0x0001, seq=25/6400, ttl=112 (request in 296)
298	114.061105	192.168.43.149	8.8.8.8	ICMP	74	Echo (ping) request id=0x0001, seq=26/6656, ttl=128 (reply in 299)
299	114.116402	8.8.8.8	192.168.43.149	ICMP	74	Echo (ping) reply id=0x0001, seq=26/6656, ttl=112 (request in 298)
300	114.716382	192.168.43.149	40.90.189.152	TLSv1.2	153	Application Data
301	114.817397	40.90.189.152	192.168.43.149	TLSv1.2	223	Application Data
302	114.857550	192.168.43.149	40.90.189.152	TCP	54	1887 → 443 [ACK] Seq=100 Ack=170 Win=251 Len=0
303	115.065595	192.168.43.149	8.8.8.8	ICMP	74	Echo (ping) request id=0x0001, seq=27/6912, ttl=128 (reply in 304)
304	115.132149	8.8.8.8	192.168.43.149	ICMP	74	Echo (ping) reply id=0x0001, seq=27/6912, ttl=112 (request in 303)
305	116.567012	Chongqin_9e:59:0f	52:fb:34:8d:88:c0	ARP	42	Who has 192.168.43.174? Tell 192.168.43.149
306	116.706767	52:fb:34:8d:88:c0	Chongqin_9e:59:0f	ARP	42	192.168.43.174 is at 52:fb:34:8d:88:c0
307	130.578272	23.23.176.28	192.168.43.149	TLSv1.2	85	Application Data
308	130.578788	192.168.43.149	23.23.176.28	TLSv1.2	89	Application Data
309	131.040023	23.23.176.28	192.168.43.149	TCP	54	443 → 6152 [ACK] Seq=94 Ack=106 Win=266 Len=0
310	142.921723	52:fb:34:8d:88:c0	Chongqin_9e:59:0f	ARP	42	Who has 192.168.43.149? Tell 192.168.43.174
311	142.921747	Chongqin_9e:59:0f	52:fb:34:8d:88:c0	ARP	42	192.168.43.149 is at e8:6f:38:9e:59:0f
312	157.600714	192.168.43.149	192.168.43.255	NBNS	92	Name query NB LAPTOP-HUA55H06<1c>
313	158.350780	192.168.43.149	192.168.43.255	NBNS	92	Name query NB LAPTOP-HUA55H06<1c>
314	159.101135	192.168.43.149	192.168.43.255	NBNS	92	Name query NB LAPTOP-HUA55H06<1c>
315	190.497508	23.23.176.28	192.168.43.149	TLSv1.2	85	Application Data
316	190.498472	192.168.43.149	23.23.176.28	TLSv1.2	89	Application Data

> Frame 1: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface \Device\NPF_{2118D162-8CC1-44A6-98AE-3A3176C8B3D4}, id 0

> Ethernet II, Src: Chongqin_9e:59:0f (e8:6f:38:9e:59:0f), Dst: 52:fb:34:8d:88:c0 (52:fb:34:8d:88:c0)

> Internet Protocol Version 4, Src: 192.168.43.149, Dst: 117.18.237.29

▼ Transmission Control Protocol, Src Port: 6207, Dst Port: 80, Seq: 0, Len: 0

Source Port: 6207

Destination Port: 80

[Stream index: 0]

[TCP Segment Len: 0]

Sequence number: 0 (relative sequence number)

Sequence number (raw): 2899874799

[Next sequence number: 1 (relative sequence number)]

Acknowledgment number: 0

Acknowledgment number (raw): 0

1000 = Header Length: 32 bytes (8)

0000 52 fb 34 8d 88 c0 e8 6f 38 9e 59 0f 08 00 45 00 R 4...o 8Y...E

0010 00 34 f2 34 40 00 06 ba 21 c0 a8 2b 95 75 12 .4. .!...+u.

0020 ed 1d 18 3f 00 50 ac 3f fd 6f 00 00 00 00 02 ...?P? :o.....

0030 fa f0 63 73 00 00 02 04 05 b4 01 03 03 08 01 01 ..cs.....

0040 04 02 ..

Transmission Control Protocol (tcp), 32 bytes

Packets: 376 · Displayed: 376 (100.0%)

Profile: Default

Capturing from Wi-Fi

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Apply a display filter ... <Ctrl-/>

No.	Time	Source	Destination	Protocol	Length	Info
1328	541.745119	52.158.208.111	192.168.43.149	TCP	66	443 → 9306 [FIN, ACK] Seq=4484 Ack=5824 Win=261888 Len=0 TSval=1073507752 TSecr=5459024
1329	541.745156	192.168.43.149	52.158.208.111	TCP	66	9306 → 443 [ACK] Seq=5824 Ack=4485 Win=65536 Len=0 TSval=5459370 TSecr=1073507752
1330	544.115195	192.168.43.149	172.217.163.170	TCP	54	9307 → 443 [FIN, ACK] Seq=1736 Ack=8705 Win=65536 Len=0
1331	544.240252	172.217.163.170	192.168.43.149	TCP	54	443 → 9307 [FIN, ACK] Seq=8705 Ack=1737 Win=64000 Len=0
1332	544.240338	192.168.43.149	172.217.163.170	TCP	54	9307 → 443 [ACK] Seq=1737 Ack=8706 Win=65536 Len=0

› Frame 1: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface \Device\NPF_{2118D162-8CC1-44A6-98AE-3A3176C8B3D4}, id 0

› Ethernet II, Src: 52:fb:34:8d:88:c0 (52:fb:34:8d:88:c0), Dst: Chongqin_9e:59:0f (e8:6f:38:9e:59:0f)

› Internet Protocol Version 4, Src: 13.107.42.254, Dst: 192.168.43.149

▼ Transmission Control Protocol, Src Port: 443, Dst Port: 11871, Seq: 1, Ack: 1, Len: 0

Source Port: 443

Destination Port: 11871

[Stream index: 0]

[TCP Segment Len: 0]

Sequence number: 1 (relative sequence number)

Sequence number (raw): 2089847372

[Next sequence number: 1 (relative sequence number)]

Acknowledgment number: 1 (relative ack number)

Acknowledgment number (raw): 2163361001

0101 = Header Length: 20 bytes (5)

› Flags: 0x014 (RST, ACK)

Window size value: 0

[Calculated window size: 0]

[Window size scaling factor: -1 (unknown)]

Checksum: 0x8e57 [unverified]

[Checksum Status: Unverified]

Urgent pointer: 0


› [Timestamps]

Port Security Hashing Algorithm:

0030	00 3e 91 f2 00 00	26 ca 79 60 65 b3 35 d0 4c 4e	->...&. y`e-5·LN
0040	e1 22 1b 71 b5 c3 40 9b	24 82 82 92 3d 51 3c ea	·"-q··@· \$···=Q<·
0050	44 4a 06 f5 b2 03 53 92	c7 dd 8e 34 39 82 22 26	DJ····S· ...49·"&
0060	23 85 17 a0 81 01 bc 00	6b b0 d4 70 3b 7b 71 61	#······ k·p;{qa
0070	c0 b1 6a a0 1a 1e c1 71	95 dc 4e 54 0f 22 d0 80	·j····q ··NT·"··
0080	bd ab b9 b5 d7 5d b4 81	f1 ac 13 44 c0 c3 19 e8	·····]·· ...D····
0090	49 c1 59 94 0f 0e 0d d4	d9 a3 f8 23 5f a3 0f 9c	I·Y····· ...#_····
00a0	63 0b 57 65 f4 55 34 7d	98 0a 21 e2 13 d5 aa 81	c·We·U4} ··!·····
00b0	ea 05 78 1d ee a2 91 6e	61 63 27 49 b2 1f 9e 96	·x·····n ac'I·····
00c0	71 6f 52 bb 80 bc e8 60	d8 a6 4e 76 29 b0 0d 38	qoR·····` ··Nv)··8
00d0	4e 11 cc 59 68 4d a4 37	0c c9 fb ac 5c d3 d0 2a	N··YhM·7 ····\··*
00e0	b9 25 4b 69 bb 97 9c f9	f7 43 3a a2 98 0e 51 52	·%Ki····· ·C:···QR
00f0	5a 8e c9 f4 6a bf 3a 0f	59 25 1a 88 6f f6 b0 c2	Z···j·:· Y%··o···
0100	50 1c da 8d 5c 85 22 99	96 f4 c0 76 c2 2c 1a f7	P···\·"· ...v·,··
0110	51 fd 66 f1 c8 42 59 9e	da 5b f8 80 a3 2b 0c 70	Q·f··BY· ·[···+·p
0120	b9 78 9b 3b 55 98 6c 79	09 d8 c6 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 ···~·O·(
0150	f8 3f e0 f0 33 30 5c 7b	cc 59 49 1b 80 de 91 c0	·?··30\{ ·YI·····
0160	74 3a a6 f0 05 a4 2f 82	6b 82 84 32 d0 91 65 d9	t:·····/· k·2··e·
0170	84 b0 d0 11 26 d8 18 49	e3 ad a7 98 e3 36 96 ed	·····&··I ·····6··
0180	71 91 c6 20 c5 ea 95 0d	2c 28 3e 46 d9 7c 10 00	q····· ,(>F· ··
0190	c3 f1 f0 cb ac 38 fc ed	5d f6 46 c8 3b 71 59 16	·····8··]·F·;qY·
01a0	55 41 31 74 ba 4a 99 42	46 a7 09 91 f7 e5 b5 b0	UA1t·J·B F······
01b0	d9 86 82 79 fb 26 9e 94	03 4a df f7 ac fb 55 9e	···y·&·· ·J····U·
01c0	26 3b f5 41 37 a7 c5 b8	2b 39 c9 41 5c 26 5f 51	&;·A7··· +9·A\&_Q
01d0	81 c6 3c 65 40 f9 d8 b9	77 78 86 7b ea 0a fc ae	·<e@··· wx·{····
01e0	bb 36 68 18 e2 b3 3b 44	c7 6d 40 fa 0b 1e d9 3d	·6h····;D ·m@····=
01f0	01 4c 91 87 60 83 36 37	7a bc 78 a0 38 27 a3 c3	·L···`·67 z·x·8'··
0200	4a 0e ca 5f d8 0e 25 f0	b0 af 22 4d 12 b7 ba 20	J··_··%· ..."M···
0210	29 2d 4b e5 2a 93 84 4c	4e 3b 52 e7 57 d2 86 b9)·K·*···L N;R·W···
0220	4b df 44 61 d6 9b c8 61	93 00 6c 42 58 af 38 65	K·Da···a ··lBX·8e
0230	f5 c0 8f ee 01 ad 9f 1b	99 a8 02 9a e2 89 7c 60	······· ····· `
0240	36 03 aa c4 65 d0 11 f9	3c 8a 33 00 b5 b2 d8 b2	6···e··· <·3·····
0250	bc 96 f2 9f d3 94 17 a5	48 b1 d2 46 c3 d1 c5 70	······· H··F···p
0260	b4 07 02 ed 69 83 96 b8	cd 43 b8 d4 55 ee dd d0	·····i··· ·C··U···
0270	19 85 0c 3d 5b 3d 16 e4	37 aa ab 16 38 7d 3d 06	···=[··· 7···8}=·
0280	00 82 43 a4 de 45 c9 8c	22 79 d7 29 68 7c 74 3f	·C··E·· "y·)h t?
0290	b0 e5 ed cb c3 cd ea 92	8d d0 5d 00 0a 06 0c bc	······· ··]·····
02a0	43 77 f0 39 b4 95 3a 5c	ff 95 53 86 0b 49 c3 90	Cw·9···:\ ··S··I··
02b0	21 d6 f7 1f fe c4 03 a0	47 70 94 ad d0 5b 6b e7	!······· Gp···[k·
02c0	78 39 15 aa 3c 59 53 d3	04 00 df 4c 0d 2f 86 2a	x9···<YS· ...L·/·*
02d0	d9 49 0b 8a 6b d7 30 4f	ae 7c df 24 43 01 aa 1a	·I···k·00 · ·\$C···
02e0	a8 40 b1 3f f0 46 f8 74	06 a3 88 b2 1c 0c 09 7e	·@·?·F·t ·····~

Different Statistics:

Wi-Fi file capture :

 Wireshark · Capture File Properties · Wi-Fi

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

<u>Interface</u>	<u>Dropped packets</u>	<u>Capture filter</u>	<u>Link type</u>	<u>Packet size limit</u>
Wi-Fi	Unknown	none	Ethernet	262144 bytes

Statistics

<u>Measurement</u>	<u>Captured</u>	<u>Displayed</u>	<u>Marked</u>
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	—

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

DNS :

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
▼ Total Packets	24				0.0006	100%	0.0400	42.542
▼ rcode	24				0.0006	100.00%	0.0400	42.542
No error	24				0.0006	100.00%	0.0400	42.542
▼ opcodes	24				0.0006	100.00%	0.0400	42.542
Standard query	24				0.0006	100.00%	0.0400	42.542
▼ Query/Response	24				0.0006	100.00%	0.0400	42.542
Response	12				0.0003	50.00%	0.0200	42.600
Query	12				0.0003	50.00%	0.0200	42.542
▼ Query Type	24				0.0006	100.00%	0.0400	42.542
A (Host Address)	24				0.0006	100.00%	0.0400	42.542
▼ Class	24				0.0006	100.00%	0.0400	42.542
IN	24				0.0006	100.00%	0.0400	42.542
▼ Service Stats	0				0.0000	100%	-	-
request-response time (secs)	11	0.08	0.050018	0.148524	0.0003		0.0200	42.600
no. of unsolicited responses	0				0.0000		-	-

Display filter:

Wireshark · Packet Lengths · Wi-Fi

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
Packet Lengths	331	721.63	54	1414	0.0252	100%	0.3800	5.004
0-19	0	-	-	-	0.0000	0.00%	-	-
20-39	0	-	-	-	0.0000	0.00%	-	-
40-79	114	54.92	54	75	0.0087	34.44%	0.0700	3.389
80-159	26	101.54	80	159	0.0020	7.85%	0.0600	12.478
160-319	19	228.79	178	269	0.0014	5.74%	0.0200	3.018
320-639	15	509.53	329	635	0.0011	4.53%	0.0200	4.430
640-1279	8	921.13	755	1204	0.0006	2.42%	0.0100	1.083
1280-2559	149	1413.43	1329	1414	0.0114	45.02%	0.2700	5.026
2560-5119	0	-	-	-	0.0000	0.00%	-	-
5120 and greater	0	-	-	-	0.0000	0.00%	-	-

Display filter: Apply

Copy Save as... Close

Protocol have been used:

Wireshark · IP Protocol Types · Wi-Fi

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
IP Protocol Types	516				0.0049	100%	0.3800	5.004
UDP	21				0.0002	4.07%	0.0200	0.569
TCP	495				0.0047	95.93%	0.3800	5.004

Display filter: Apply

Copy Save as... Close

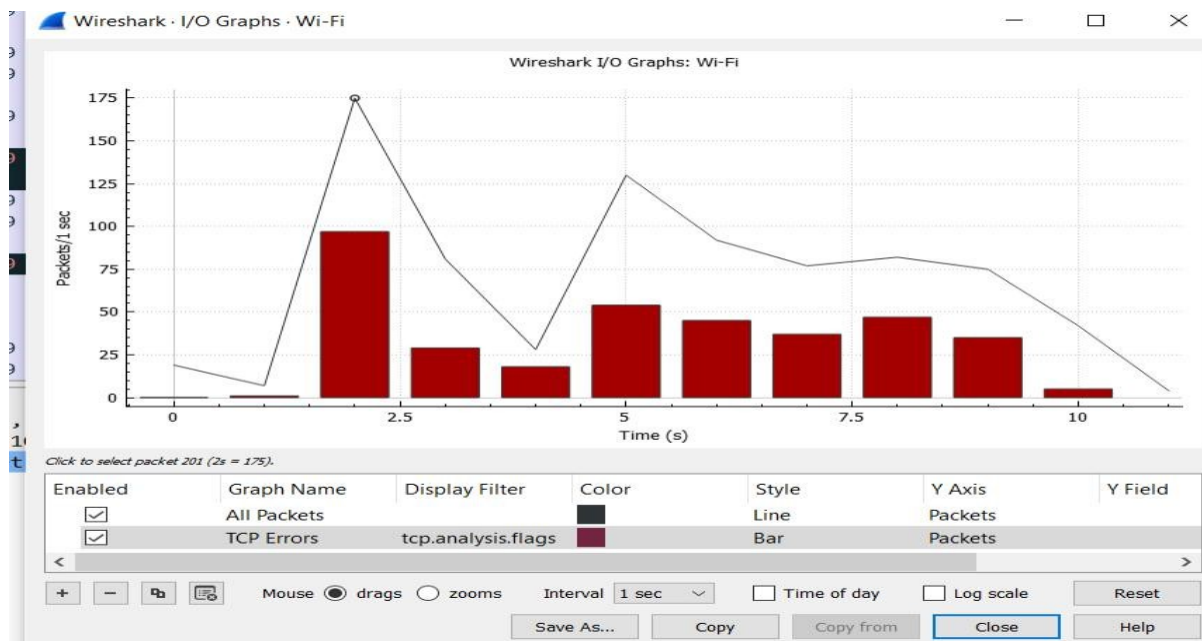
Wireshark · Destinations and Ports · Wi-Fi

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
▼ Destinations and Ports	501				0.0093	100%	0.3800	5.004
▼ 74.125.68.188	1				0.0000	0.20%	0.0100	13.368
▼ TCP	1				0.0000	100.00%	0.0100	13.368
5228	1				0.0000	100.00%	0.0100	13.368
▼ 74.125.24.189	6				0.0001	1.20%	0.0200	19.972
▼ TCP	6				0.0001	100.00%	0.0200	19.972
443	6				0.0001	100.00%	0.0200	19.972
▼ 40.119.211.203	5				0.0001	1.00%	0.0100	2.393
▼ TCP	5				0.0001	100.00%	0.0100	2.393
443	5				0.0001	100.00%	0.0100	2.393
▼ 34.237.189.140	1				0.0000	0.20%	0.0100	51.481
▼ TCP	1				0.0000	100.00%	0.0100	51.481
443	1				0.0000	100.00%	0.0100	51.481
▼ 239.255.255.250	4				0.0001	0.80%	0.0100	9.565
▼ UDP	4				0.0001	100.00%	0.0100	9.565

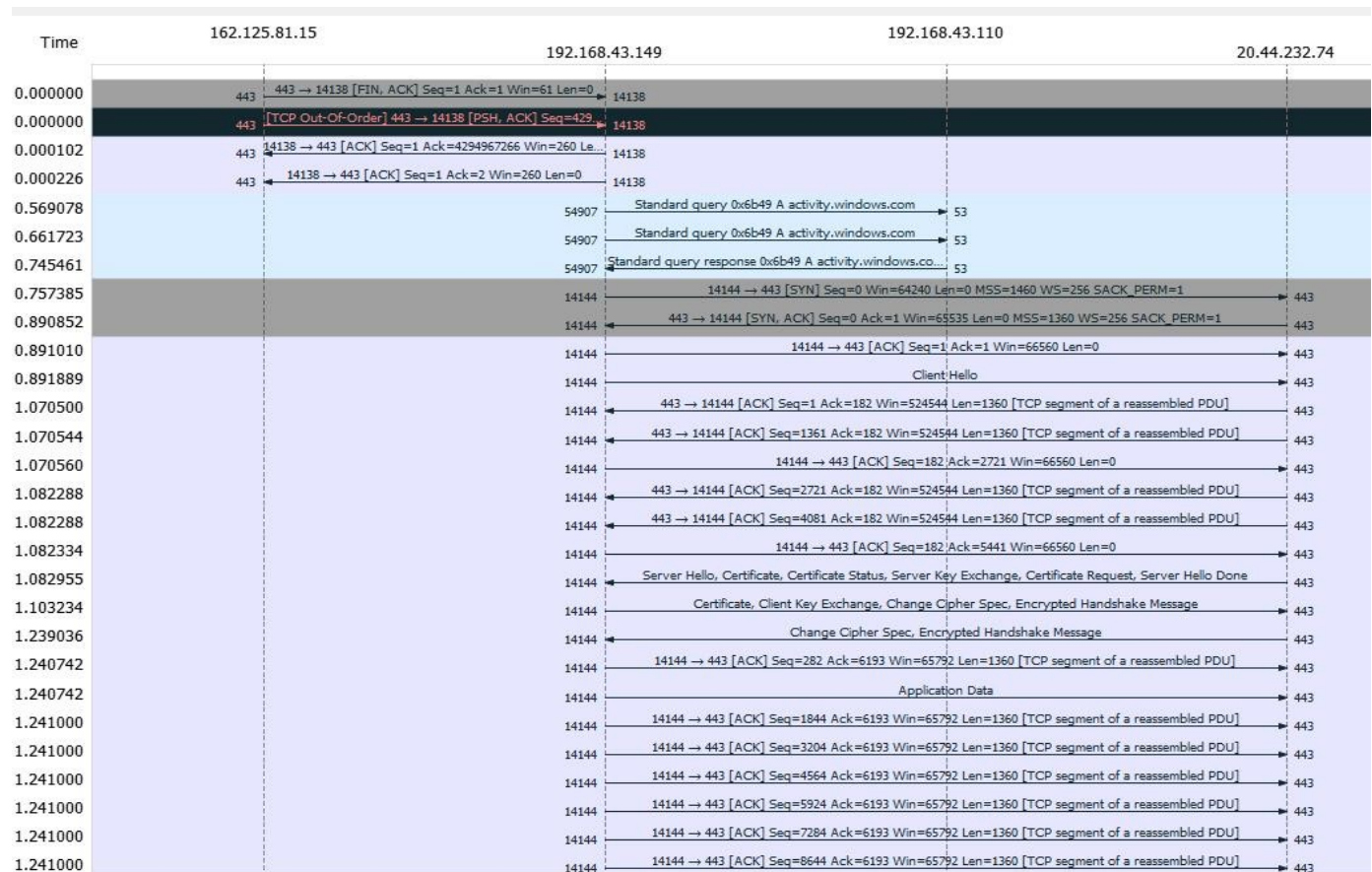
Display filter: Apply

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Error & Success Rates:



Real time Response:



Conclusion:

The Wireshark package contains a network protocol analyzer. Wireshark is an open source and free software. It is a graphical alternative to TCP dump and displays packets in detail. Open files contain packet data captures. Filtering is essential when dealing with a lot of packets. This is useful for analyzing data captured “off the wire” from a live network connection, or data read from a capture file.

Wireshark provides both a graphical and a TTY-mode front-end for examining captured network packets from over 500 protocols, as well as the capability to read capture files from many other popular network analyzers.