

NAME: Debadrita Roy

CLASS: BCSE-III

GROUP: A1

ASSIGNMENT NUMBER: 5

PROBLEM STATEMENT: Packet tracer and traffic analysis with Wireshark

DEADLINE: 29th October, 2021

DATE OF SUBMISSION: 9th November, 2021

OVERVIEW:

Wireshark is an open-source cross-platform packet capture and analysis tool, with versions for Windows and Linux. The GUI window gives a detailed breakdown of the network protocol stack for each packet, colorizing packet details based on protocol, as well as having functionality to filter and search the traffic, and pick out TCP streams. Wireshark can also save packet data to files for offline analysis and export/import packet captures to/from other tools. Statistics can also be generated for packet capture files.

SYSTEM DETAILS:

OS: 64-bit Windows 10

Wireshark version 3.4.9

QUESTIONS

1. Generate some ICMP traffic by using the Ping command line tool to check the connectivity of a neighbouring machine (or router). Note the results in Wireshark. The initial ARP request broadcast from your PC determines the physical MAC address of the network IP Address, and the ARP reply from the neighboring system. After the ARP request, the pings (ICMP echo request and replies) can be seen.

Windows command prompt:

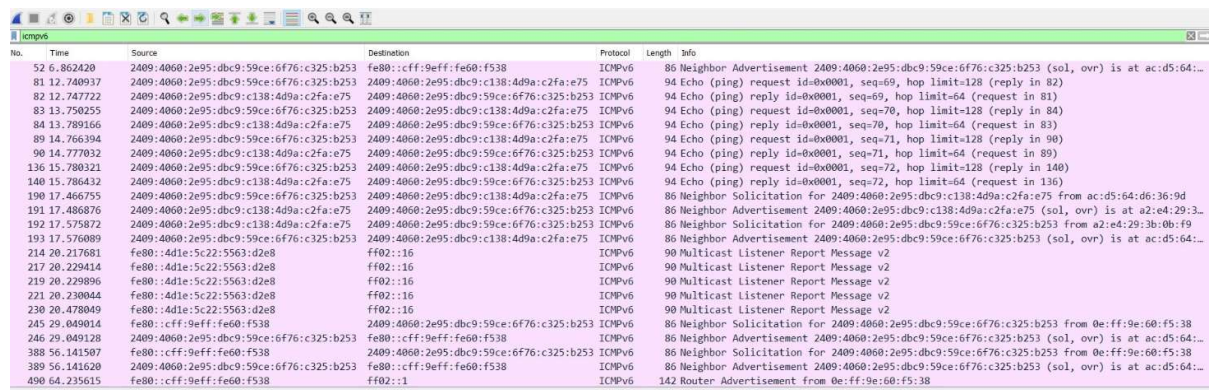
```
C:\Users\USER19>ping 2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75

Pinging 2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75 with 32 bytes of data:
Reply from 2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75: time=6ms
Reply from 2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75: time=39ms
Reply from 2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75: time=10ms
Reply from 2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75: time=6ms

Ping statistics for 2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 6ms, Maximum = 39ms, Average = 15ms

C:\Users\USER19>
```

Results in Wireshark:



No.	Time	Source	Destination	Protocol	Length	Info
52	6.862420	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	fe80::c9ff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:4060:2e95:dbc9:59ce:6f76:c325:b253 (sol, ovr) is at ac:d5:64:...
81	12.740937	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	ICMPv6	94	Echo (ping) request id=0x0001, seq=69, hop limit=128 (reply in 82)
82	12.747722	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	ICMPv6	94	Echo (ping) reply id=0x0001, seq=69, hop limit=64 (request in 81)
83	13.750255	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	ICMPv6	94	Echo (ping) request id=0x0001, seq=70, hop limit=128 (reply in 84)
84	13.789166	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	ICMPv6	94	Echo (ping) reply id=0x0001, seq=70, hop limit=64 (request in 83)
89	14.766394	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	ICMPv6	94	Echo (ping) request id=0x0001, seq=71, hop limit=128 (reply in 90)
90	14.777032	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	ICMPv6	94	Echo (ping) reply id=0x0001, seq=71, hop limit=64 (request in 89)
136	15.780321	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	ICMPv6	94	Echo (ping) request id=0x0001, seq=72, hop limit=128 (reply in 140)
140	15.786432	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	ICMPv6	94	Echo (ping) reply id=0x0001, seq=72, hop limit=64 (request in 136)
190	17.466755	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	ICMPv6	86	Neighbor Solicitation for 2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75 from ac:d5:64:d6:36:9d
191	17.486876	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	ICMPv6	86	Neighbor Advertisement 2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75 (sol, ovr) is at a2:e4:29:3...
192	17.575872	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	ICMPv6	86	Neighbor Solicitation for 2409:4060:2e95:dbc9:59ce:6f76:c325:b253 from a2:e4:29:3b:0b:f9
193	17.576089	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75	ICMPv6	86	Neighbor Advertisement 2409:4060:2e95:dbc9:59ce:6f76:c325:b253 (sol, ovr) is at ac:d5:64:...
214	20.217681	fe80::4d1e:5c22:5563:d2e8	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
217	20.229414	fe80::4d1e:5c22:5563:d2e8	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
219	20.229896	fe80::4d1e:5c22:5563:d2e8	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
221	20.230044	fe80::4d1e:5c22:5563:d2e8	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
230	20.478049	fe80::4d1e:5c22:5563:d2e8	ff02::16	ICMPv6	90	Multicast Listener Report Message v2
245	29.049014	fe80::c9ff:fe60:f538	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	ICMPv6	86	Neighbor Solicitation for 2409:4060:2e95:dbc9:59ce:6f76:c325:b253 from 0e:ff:9e:60:f5:38
246	29.049128	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	fe80::c9ff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:4060:2e95:dbc9:59ce:6f76:c325:b253 (sol, ovr) is at ac:d5:64:...
388	56.141507	fe80::c9ff:fe60:f538	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	ICMPv6	86	Neighbor Solicitation for 2409:4060:2e95:dbc9:59ce:6f76:c325:b253 from 0e:ff:9e:60:f5:38
389	56.141620	2409:4060:2e95:dbc9:59ce:6f76:c325:b253	fe80::c9ff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:4060:2e95:dbc9:59ce:6f76:c325:b253 (sol, ovr) is at ac:d5:64:...
490	64.235615	fe80::c9ff:fe60:f538	ff02::1	ICMPv6	142	Router Advertisement from 0e:ff:9e:60:f5:38

The source ipv6 address (my machine) is 2409:4060:2e95:dbc9:59ce:6f76:c325:b253 and the ipv6 address of the neighbouring machine used is 2409:4060:2e95:dbc9:c138:4d9a:c2fa:e75.

2. Generate some web traffic and

a. find the list the different protocols that appear in the protocol column in the unfiltered packet-listing window of Wireshark.

b. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received? (By default, the value of the Time column in the packet-listing window is the amount of time, in seconds, since Wireshark tracing began. To display the Time field in time-of-day format, select the Wireshark View pull down menu, then select Time Display Format, then select Time-of-day.)

c. What is the Internet address of the website? What is the Internet address of your computer?

d. Search back through your capture, and find an HTTP packet containing a GET command. Click on the packet in the Packet List Panel. Then expand the HTTP layer in the Packet Details Panel, from the packet.

e. Find out the value of the Host from the Packet Details Panel, within the GET command.

Answers:

a. List of different protocols appearing in the protocol column:

- ARP (Address Resolution Protocol)
- UDP (User Datagram Protocol)
- TCP (Transmission Control Protocol)
- MDNS (multicast DNS)
- LLMNR (Link-Local Multicast Name Resolution)
- DNS (Domain Name System)
- HTTP (Hypertext Transfer Protocol)
- NBNS (NetBIOS Name Service)
- QUIC (Quick UDP Internet Connection)
- ICMPv6 (Internet Control Message Protocol version 6)
- TLSv1.2, TLSv1.3 (Transport Layer Security)
- SSDP (Simple Service Discovery Protocol)

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	4.2.2.1	192.168.43.142	DNS	267	Standard query response 0x7e39 A protecti.quickheal.com CNAME PT12-ELB-46950754.ap-south-...
2	0.010027	4.2.2.1	192.168.43.142	DNS	217	Standard query response 0xc204 AAAA protecti.quickheal.com CNAME PT12-ELB-46950754.ap-sou...
3	0.011112	192.168.43.142	3.7.119.34	TCP	66	53779 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
4	0.011171	192.168.43.142	3.7.119.34	TCP	66	53780 → 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
5	0.068885	192.168.43.238	239.255.255.250	SSDP	215	M-SEARCH * HTTP/1.1
6	0.103652	3.7.119.34	192.168.43.142	TCP	66	80 → 53779 [SYN, ACK] Seq=0 Ack=1 Win=26883 Len=0 MSS=1370 SACK_PERM=1 WS=256
7	0.103766	192.168.43.142	3.7.119.34	TCP	54	53779 → 80 [ACK] Seq=1 Ack=1 Win=65536 Len=0
8	0.118226	3.7.119.34	192.168.43.142	TCP	66	80 → 53780 [SYN, ACK] Seq=0 Ack=1 Win=26883 Len=0 MSS=1370 SACK_PERM=1 WS=256
9	0.118317	192.168.43.142	3.7.119.34	TCP	54	53780 → 80 [ACK] Seq=1 Ack=1 Win=65536 Len=0
10	0.128436	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:82c::200a	UDP	95	61575 → 443 Len=33
11	0.128448	192.168.43.142	3.7.119.34	HTTP	911	POST /qhccloudsec/lookup/file/scan HTTP/1.1 (text/plain)
12	0.128448	192.168.43.142	3.7.119.34	HTTP	903	POST /qhccloudsec/lookup/file/scan HTTP/1.1 (text/plain)
13	0.143919	2404:6800:4003:c11::bd	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	88	443 → 49786 Len=26
14	0.231485	3.7.119.34	192.168.43.142	TCP	54	80 → 53779 [ACK] Seq=1 Ack=858 Win=28672 Len=0
15	0.232261	2404:6800:4002:82c::200a	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	87	443 → 61575 Len=25
16	0.241837	3.7.119.34	192.168.43.142	HTTP	578	HTTP/1.1 200 OK (text/plain)
17	0.245601	192.168.43.142	3.7.119.34	TCP	54	53779 → 80 [FIN, ACK] Seq=858 Ack=525 Win=65024 Len=0
18	0.255926	3.7.119.34	192.168.43.142	TCP	54	80 → 53780 [ACK] Seq=1 Ack=850 Win=28672 Len=0
19	0.274620	3.7.119.34	192.168.43.142	HTTP	578	HTTP/1.1 200 OK (text/plain)
20	0.275787	192.168.43.142	3.7.119.34	TCP	54	53780 → 80 [FIN, ACK] Seq=850 Ack=525 Win=65024 Len=0
21	0.324264	3.7.119.34	192.168.43.142	TCP	54	80 → 53779 [FIN, ACK] Seq=525 Ack=859 Win=28672 Len=0
22	0.324415	192.168.43.142	3.7.119.34	TCP	54	53779 → 80 [ACK] Seq=859 Ack=526 Win=65024 Len=0
23	0.358816	3.7.119.34	192.168.43.142	TCP	54	80 → 53780 [FIN, ACK] Seq=525 Ack=851 Win=28672 Len=0
24	0.358959	192.168.43.142	3.7.119.34	TCP	54	53780 → 80 [ACK] Seq=851 Ack=526 Win=65024 Len=0
25	0.472142	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:80a::200e	QUIC	1392	Initial, DCID=8199c7b62176cee2, PKN: 1, PADDING, CRYPTO, CRYPTO, PADDING, CRYPTO, CRYPTO,...
26	0.643734	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:82c::200a	UDP	95	61575 → 443 Len=33
27	0.659677	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:809::200e	TCP	1424	53419 → 443 [ACK] Seq=1 Ack=1 Win=254 Len=1350 [TCP segment of a reassembled PDU]
28	0.659677	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:809::200e	TLSv1.2	169	Application Data

> Frame 11: 911 bytes on wire (7288 bits), 911 bytes captured (7288 bits) on interface \Device\NPF_{4BB60237-4A15-4A53-9782-6CE0AB8AD924}, id 0
 > Ethernet II, Src: Chongqin_d6:36:9d (ac:d5:64:d6:36:9d), Dst: 0e:ff:9e:60:f5:38 (0e:ff:9e:60:f5:38)
 > Internet Protocol Version 4, Src: 192.168.43.142, Dst: 3.7.119.34

b.

7801	83.254672	192.168.43.142	15.207.154.216	HTTP	458	POST /URLCategorizerService/URLCategorize HTTP/1.1 (application/x-www-form-urlencoded)
7828	83.363390	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	356	HEAD /edgedl/release2/chrome_component/ac233p62eyjoeaaxiho7ghfjp3a_304/lme1glejhemejginp...
7848	83.464792	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	624	HTTP/1.1 200 OK
7856	83.489189	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	428	GET /edgedl/release2/chrome_component/ac233p62eyjoeaaxiho7ghfjp3a_304/lme1glejhemejginp...
7877	83.614092	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	571	HTTP/1.1 206 Partial Content
8397	87.542033	15.207.154.216	192.168.43.142	HTTP	59	HTTP/1.1 200 OK (application/text)
8456	87.857580	192.168.43.142	13.233.218.106	HTTP	1019	POST /qhccloudsec/lookup/file/scan HTTP/1.1 (text/plain)
8461	87.885149	192.168.43.142	13.233.218.106	HTTP	1019	POST /qhccloudsec/lookup/file/scan HTTP/1.1 (text/plain)
8632	88.811634	192.168.43.142	13.233.218.106	HTTP	1019	POST /qhccloudsec/lookup/file/scan HTTP/1.1 (text/plain)
8676	89.511158	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431	GET /edgedl/release2/chrome_component/ac233p62eyjoeaaxiho7ghfjp3a_304/lme1glejhemejginp...
9006	93.192444	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	839	HTTP/1.1 206 Partial Content
9506	97.224914	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431	GET /edgedl/release2/chrome_component/ac233p62eyjoeaaxiho7ghfjp3a_304/lme1glejhemejginp...
9643	98.272942	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	321	HTTP/1.1 206 Partial Content
9755	98.973399	192.168.43.142	15.207.154.216	HTTP	458	POST /URLCategorizerService/URLCategorize HTTP/1.1 (application/x-www-form-urlencoded)
102_	102.667123	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431	GET /edgedl/release2/chrome_component/ac233p62eyjoeaaxiho7ghfjp3a_304/lme1glejhemejginp...
103_	102.946464	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	78	HTTP/1.1 206 Partial Content
109_	107.868301	192.168.43.142	120.29.198.248	HTTP	209	GET /1700/urlcat/wsaltcnf.bin HTTP/1.1
111_	109.747995	120.29.198.248	192.168.43.142	HTTP	433	HTTP/1.1 200 OK
112_	110.364012	120.29.198.248	192.168.43.142	HTTP	433	[TCP Spurious Retransmission] HTTP/1.1 200 OK
114_	111.441430	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431	GET /edgedl/release2/chrome_component/ac233p62eyjoeaaxiho7ghfjp3a_304/lme1glejhemejginp...
114_	111.552529	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	77	HTTP/1.1 206 Partial Content

Time taken from when HTTP GET was sent until the receipt of HTTP OK message

=109.747995-107.868301= 1.879694 s

c. Internet address of the destination: 120.29.198.248

Internet address of my machine : 192.168.43.142

d.

9506	97.224914	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431	GET /edgedl/release2/chrome_component/ac233p62ey
9643	98.272942	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	321	HTTP/1.1 206 Partial Content
9755	98.973399	192.168.43.142	15.207.154.216	HTTP	458	POST /URLCategorizerService/URLCategorize HTTP/1
102_	102.667123	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431	GET /edgedl/release2/chrome_component/ac233p62ey
103_	102.946464	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	78	HTTP/1.1 206 Partial Content
109_	107.868301	192.168.43.142	120.29.198.248	HTTP	209	GET /1700/urlcat/wsaltcnf.bin HTTP/1.1
111_	109.747995	120.29.198.248	192.168.43.142	HTTP	433	HTTP/1.1 200 OK
112_	110.364012	120.29.198.248	192.168.43.142	HTTP	433	[TCP Spurious Retransmission] HTTP/1.1 200 OK
114_	111.441430	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431	GET /edgedl/release2/chrome_component/ac233p62ey

> Frame 10995: 209 bytes on wire (1672 bits), 209 bytes captured (1672 bits) on interface \Device\NPF_{4BB60237-4A15-4A53-9782-6CE0AB8AD924}, id 0
 > Ethernet II, Src: Chongqin_d6:36:9d (ac:d5:64:d6:36:9d), Dst: 0e:ff:9e:60:f5:38 (0e:ff:9e:60:f5:38)
 > Internet Protocol Version 4, Src: 192.168.43.142, Dst: 120.29.198.248
 > Transmission Control Protocol, Src Port: 55464, Dst Port: 80, Seq: 1, Ack: 1, Len: 155

> Hypertext Transfer Protocol
 > GET /1700/urlcat/wsaltcnf.bin HTTP/1.1\r\n
 > [Expert Info (Chat/Sequence): GET /1700/urlcat/wsaltcnf.bin HTTP/1.1\r\n]
 Request Method: GET
 Request URI: /1700/urlcat/wsaltcnf.bin
 Request Version: HTTP/1.1
 Accept: */*\r\n
 User-Agent: Inetsdk\r\n
 Host: download.quickheal.com\r\n
 Connection: Keep-Alive\r\n
 Cache-Control: no-cache\r\n
 \r\n
 [Fu] request URI: http://download.quickheal.com/1700/urlcat/wsaltcnf.bin
 [HTTP request 1/2]
 [Response in frame: 11143]

e. The value of the host is download.quickheal.com\r\n as seen in the above screenshot.

3. Highlight the Hex and ASCII representations of the packet in the Packet Bytes Panel.

103_	102.946464	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	78 HTTP/1.1 206 Partial Content
109_	107.868301	192.168.43.142	120.29.198.248	HTTP	209 GET /1700/urlicat/wsaltcnf.bin HTTP/1.1
111_	109.747995	120.29.198.248	192.168.43.142	HTTP	433 HTTP/1.1 200 OK
112_	110.364012	120.29.198.248	192.168.43.142	HTTP	433 [TCP Spurious Retransmission] HTTP/1.1 200 OK
114_	111.441430	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431 GET /edgedl/release2/chrome_component/ac

> Frame 10995: 209 bytes on wire (1672 bits), 209 bytes captured (1672 bits) on interface \Device\NPF_{4BB60237-4A15-4A53-9782-6CE0AB8AD924}, id 0					
> Ethernet II, Src: Chongqin_d6:36:9d (ac:d5:64:d6:36:9d), Dst: 0e:ff:9e:60:f5:38 (0e:ff:9e:60:f5:38)					
> Internet Protocol Version 4, Src: 192.168.43.142, Dst: 120.29.198.248					
> Transmission Control Protocol, Src Port: 55464, Dst Port: 80, Seq: 1, Ack: 1, Len: 155					
> Hypertext Transfer Protocol					

0000	0e ff 9e 60 f5 38 ac d5	64 d6 36 9d 08 00 45 00	...`-8-- d-6...E-
0010	00 c3 68 37 40 00 80 06	66 b1 c0 a8 2b 8e 78 1d	--h7@--- f---+x-
0020	c6 f8 d8 a8 00 50 29 be	60 82 bd 40 81 83 50 18	----P)-`--@-P-
0030	04 00 0a 24 00 00 47 45	54 20 2f 31 37 30 30 2f	...\$-GE T /1700/
0040	75 72 6c 63 61 74 2f 77	73 61 6c 74 63 6e 66 2e	urlicat/w saltcnf.
0050	62 69 6e 20 48 54 54 50	2f 31 2e 31 0d 0a 41 63	bin HTTP /1.1-Ac
0060	63 65 70 74 3a 20 2a 2f	2a 0d 0a 55 73 65 72 2d	cept: */ *-User-
0070	41 67 65 6e 74 3a 20 49	6e 65 74 73 64 6b 0d 0a	Agent: I netsdk--
0080	48 6f 73 74 3a 20 64 6f	77 6e 6c 6f 61 64 2e 71	Host: do wnload.q
0090	75 69 63 6b 68 65 61 6c	2e 63 6f 6d 0d 0a 43 6f	uickheal .com--Co
00a0	6e 6e 65 63 74 69 6f 6e	3a 20 4b 65 65 70 2d 41	nnection : Keep-A
00b0	6c 69 76 65 0d 0a 43 61	63 68 65 2d 43 6f 6e 74	live- Ca che-Cont
00c0	72 6f 6c 3a 20 6e 6f 2d	63 61 63 68 65 0d 0a 0d	rol: no- cache---
00d0	0a		

|-----HEX REPRESENTATION-----| |-----ASCII-----|

4. Find out the first 4 bytes of the Hex value of the Host parameter from the Packet Bytes Panel.

```
Accept: */*\r\n
User-Agent: Inetsdk\r\n
Host: download.quickheal.com\r\n
Connection: Keep-Alive\r\n
Cache-Control: no-cache\r\n
```

000	0e ff 9e 60 f5 38 ac d5	64 d6 36 9d 08 00 45 00	...`-8-- d-6...E-
010	00 c3 68 37 40 00 80 06	66 b1 c0 a8 2b 8e 78 1d	--h7@--- f---+x-
020	c6 f8 d8 a8 00 50 29 be	60 82 bd 40 81 83 50 18	----P)-`--@-P-
030	04 00 0a 24 00 00 47 45	54 20 2f 31 37 30 30 2f	...\$-GE T /1700/
040	75 72 6c 63 61 74 2f 77	73 61 6c 74 63 6e 66 2e	urlicat/w saltcnf.
050	62 69 6e 20 48 54 54 50	2f 31 2e 31 0d 0a 41 63	bin HTTP /1.1-Ac
060	63 65 70 74 3a 20 2a 2f	2a 0d 0a 55 73 65 72 2d	cept: */ *-User-
070	41 67 65 6e 74 3a 20 49	6e 65 74 73 64 6b 0d 0a	Agent: I netsdk--
080	48 6f 73 74 3a 20 64 6f	77 6e 6c 6f 61 64 2e 71	Host: do wnload.q
090	75 69 63 6b 68 65 61 6c	2e 63 6f 6d 0d 0a 43 6f	uickheal .com--Co
0a0	6e 6e 65 63 74 69 6f 6e	3a 20 4b 65 65 70 2d 41	nnection : Keep-A
0b0	6c 69 76 65 0d 0a 43 61	63 68 65 2d 43 6f 6e 74	live- Ca che-Cont
0c0	72 6f 6c 3a 20 6e 6f 2d	63 61 63 68 65 0d 0a 0d	rol: no- cache---
0d0	0a		

The highlighted portion of the HEX Representation of the packet is for the host parameter. The first 4 bytes are 48 6f 73 74.

5. Filter packets with http, TCP, DNS and other protocols.

HTTP:

No.	Time	Source	Destination	Protocol	Length	Info
5275	63.611830	15.207.154.216	192.168.43.142	HTTP	487	[TCP Spurious Retransmission] HTTP/1.1 200 OK (application/text)
5339	63.794665	15.207.154.216	192.168.43.142	HTTP	411	[TCP Spurious Retransmission] HTTP/1.1 200 OK (application/text)
5442	64.333488	192.168.43.142	13.233.218.106	HTTP	1019	POST /qcloudsec/lookup/file/scan HTTP/1.1 (text/plain)
5445	64.334049	192.168.43.142	13.233.218.106	HTTP	1019	POST /qcloudsec/lookup/file/scan HTTP/1.1 (text/plain)
5500	65.004060	192.168.43.142	15.207.154.216	HTTP	430	[TCP Spurious Retransmission] POST /URLCategorizerService/URLCategorize HTTP/1.1 (application/x-www-form-urlencoded)
5521	65.710319	15.207.154.216	192.168.43.142	HTTP	487	[TCP Spurious Retransmission] HTTP/1.1 200 OK (application/text)
5647	66.310044	192.168.43.142	15.207.154.216	HTTP	458	POST /URLCategorizerService/URLCategorize HTTP/1.1 (application/x-www-form-urlencoded)
5651	66.319499	15.207.154.216	192.168.43.142	HTTP	435	HTTP/1.1 200 OK (application/text)
5812	67.277564	15.207.154.216	192.168.43.142	HTTP	435	[TCP Spurious Retransmission] HTTP/1.1 200 OK (application/text)
6008	68.315777	192.168.43.142	15.207.154.216	HTTP	470	POST /URLCategorizerService/URLCategorize HTTP/1.1 (application/x-www-form-urlencoded)
6450	72.044133	15.207.154.216	192.168.43.142	HTTP	487	HTTP/1.1 200 OK (application/text)
6621	74.372120	15.207.154.216	192.168.43.142	HTTP	487	[TCP Spurious Retransmission] HTTP/1.1 200 OK (application/text)
6783	75.378856	15.207.154.216	192.168.43.142	HTTP	499	HTTP/1.1 200 OK (application/text)
6862	75.818176	15.207.154.216	192.168.43.142	HTTP	499	[TCP Spurious Retransmission] HTTP/1.1 200 OK (application/text)
6917	76.055905	15.207.154.216	192.168.43.142	HTTP	487	[TCP Spurious Retransmission] HTTP/1.1 200 OK (application/text)
7172	77.103510	15.207.154.216	192.168.43.142	HTTP	489	[TCP Spurious Retransmission] HTTP/1.1 200 OK (application/text)
7801	82.224672	192.168.43.142	15.207.154.216	HTTP	458	POST /URLCategorizerService/URLCategorize HTTP/1.1 (application/x-www-form-urlencoded)
7828	83.363390	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	356	HEAD /edgedl/release2/chrome_component/ac233p6zeyjoeaxihs7ghfjpa_304/1mclglejhemejgin...
7848	83.464792	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	624	HTTP/1.1 200 OK
7856	83.489189	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	428	GET /edgedl/release2/chrome_component/ac233p6zeyjoeaxihs7ghfjpa_304/1mclglejhemejgin...
7877	83.614092	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	571	HTTP/1.1 206 Partial Content
8397	87.542033	15.207.154.216	192.168.43.142	HTTP	59	HTTP/1.1 200 OK (application/text)
8456	87.857580	192.168.43.142	13.233.218.106	HTTP	1019	POST /qcloudsec/lookup/file/scan HTTP/1.1 (text/plain)
8461	87.855149	192.168.43.142	13.233.218.106	HTTP	1019	POST /qcloudsec/lookup/file/scan HTTP/1.1 (text/plain)
8632	88.811634	192.168.43.142	13.233.218.106	HTTP	1019	POST /qcloudsec/lookup/file/scan HTTP/1.1 (text/plain)
8676	89.515558	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431	GET /edgedl/release2/chrome_component/ac233p6zeyjoeaxihs7ghfjpa_304/1mclglejhemejgin...
9006	93.192444	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	839	HTTP/1.1 206 Partial Content
9506	97.224914	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431	GET /edgedl/release2/chrome_component/ac233p6zeyjoeaxihs7ghfjpa_304/1mclglejhemejgin...
9643	98.277242	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	321	HTTP/1.1 206 Partial Content
9755	98.973399	192.168.43.142	15.207.154.216	HTTP	458	POST /URLCategorizerService/URLCategorize HTTP/1.1 (application/x-www-form-urlencoded)
102.	102.667123	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:1900:4110:86f::	HTTP	431	GET /edgedl/release2/chrome_component/ac233p6zeyjoeaxihs7ghfjpa_304/1mclglejhemejgin...
103.	102.946464	2600:1900:4110:86f::	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	HTTP	78	HTTP/1.1 206 Partial Content
109.	107.868301	192.168.43.142	128.29.198.248	HTTP	209	GET /1700/urlcat/waltnf.bin HTTP/1.1
111.	109.747995	192.168.43.142	192.168.43.142	HTTP	431	HTTP/1.1 200 OK
113.	109.747995	192.168.43.142	192.168.43.142	HTTP	431	[TCP Spurious Retransmission] HTTP/1.1 200 OK

TCP:

No.	Time	Source	Destination	Protocol	Length	Info
2123	30.923802	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=816717 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2124	30.924021	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=830 Ack=818087 Min=2065 Len=0
2125	30.939187	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=818087 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2126	30.947885	2600:9000:2041:5600:c:f23:e440:93a1	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	TCP	1294	443 → 55294 [ACK] Seq=242820 Ack=177 Min=135 Len=1220 [TCP segment of a reassembled PDU]
2127	30.948003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:9000:2041:5600:c:f23:e440:93a1	TCP	74	55294 → 443 [ACK] Seq=177 Ack=244040 Min=257 Len=0
2128	30.960618	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=819457 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2129	30.969838	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=830 Ack=820827 Min=2065 Len=0
2130	30.989517	2600:9000:2041:5600:c:f23:e440:93a1	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	TCP	1294	443 → 55294 [ACK] Seq=244040 Ack=177 Min=135 Len=1220 [TCP segment of a reassembled PDU]
2131	30.995772	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=820827 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2132	31.003179	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=822197 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2133	31.003384	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=830 Ack=823567 Min=2065 Len=0
2134	31.009219	2600:9000:2041:5600:c:f23:e440:93a1	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	TCP	1294	443 → 55294 [ACK] Seq=245260 Ack=177 Min=135 Len=1220 [TCP segment of a reassembled PDU]
2135	31.009341	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:9000:2041:5600:c:f23:e440:93a1	TCP	74	55294 → 443 [ACK] Seq=177 Ack=246040 Min=257 Len=0
2136	31.019020	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=823567 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2137	31.027622	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=824937 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2138	31.027843	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=830 Ack=826307 Min=2065 Len=0
2139	31.042977	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=826307 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2140	31.057452	2600:9000:2041:5600:c:f23:e440:93a1	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	TCP	1294	443 → 55294 [ACK] Seq=246040 Ack=177 Min=135 Len=1220 [TCP segment of a reassembled PDU]
2141	31.064397	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=827677 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2142	31.064294	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=830 Ack=829047 Min=2065 Len=0
2143	31.070220	2600:9000:2041:5600:c:f23:e440:93a1	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	TCP	1294	443 → 55294 [ACK] Seq=247700 Ack=177 Min=135 Len=1220 [TCP segment of a reassembled PDU]
2144	31.070277	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:9000:2041:5600:c:f23:e440:93a1	TCP	74	55294 → 443 [ACK] Seq=177 Ack=248920 Min=257 Len=0
2145	31.077462	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=829047 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2146	31.090794	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=829047 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2147	31.095891	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=830 Ack=831787 Min=2065 Len=0
2148	31.105849	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=831787 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2149	31.111624	2600:9000:2041:5600:c:f23:e440:93a1	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	TCP	1294	443 → 55294 [ACK] Seq=248920 Ack=177 Min=135 Len=1220 [TCP segment of a reassembled PDU]
2150	31.128356	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=833557 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2151	31.128445	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=830 Ack=834527 Min=2065 Len=0
2152	31.127059	2600:9000:2041:5600:c:f23:e440:93a1	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	TCP	1294	443 → 55294 [ACK] Seq=250140 Ack=177 Min=135 Len=1220 [TCP segment of a reassembled PDU]
2153	31.127114	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2600:9000:2041:5600:c:f23:e440:93a1	TCP	74	55294 → 443 [ACK] Seq=177 Ack=251360 Min=514 Len=0
2154	31.144936	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=834527 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2155	31.166576	15.206.175.204	192.168.43.142	TCP	1424	443 → 55291 [ACK] Seq=835897 Ack=830 Min=126 Len=1370 [TCP segment of a reassembled PDU]
2156	31.166665	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=830 Ack=837267 Min=2065 Len=0
2157	31.171172	2600:9000:2041:5600:c:f23:e440:93a1	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	TCP	1294	443 → 55294 [ACK] Seq=253360 Ack=177 Min=135 Len=1220 [TCP segment of a reassembled PDU]

DNS:

No.	Time	Source	Destination	Protocol	Length	Info
267	6.655466	192.168.43.142	4.2.2.1	DNS	82	Standard query 0x99ac A protecti.quickhail.com
268	6.659875	192.168.43.142	4.2.2.1	DNS	82	Standard query response 0x511 AAAA protecti.quickhail.com
269	6.777705	4.2.2.1	192.168.43.142	DNS	217	Standard query response 0x511 AAAA protecti.quickhail.com CNWME P112-ELB-46950754.ap-sou-
273	6.799960	4.2.2.1	192.168.43.142	DNS	267	Standard query response 0x99ac A protecti.quickhail.com CNWME P112-ELB-46950754.ap-south-
838	18.969909	192.168.43.142	4.2.2.1	DNS	83	Standard query 0xf17c A websocketprod.co-vin.in
839	18.970258	192.168.43.142	4.2.2.1	DNS	83	Standard query 0xf7b2 AAAA websocketprod.co-vin.in
840	19.072497	192.168.43.142	4.2.2.1	DNS	83	Standard query 0x74b1 A maxcdn.bootstrapcdn.com
841	19.072756	192.168.43.142	4.2.2.1	DNS	83	Standard query 0x85e6 AAAA maxcdn.bootstrapcdn.com
842	19.081718	192.168.43.142	4.2.2.1	DNS	69	Standard query 0xf615 A unpkg.com
843	19.082600	192.168.43.142	4.2.2.1	DNS	69	Standard query 0x77c8 AAAA unpkg.com
844	19.083373	192.168.43.142	4.2.2.1	DNS	77	Standard query 0xf862 A cdn-api.co-vin.in
845	19.083839	192.168.43.142	4.2.2.1	DNS	77	Standard query 0x19bc AAAA cdn-api.co-vin.in
846	19.073390	4.2.2.1	192.168.43.142	DNS	211	Standard query response 0xf17c A websocketprod.co-vin.in A 13.234.135.238 A 3.7.236.182
867	19.977818	192.168.43.142	8.8.8.8	DNS	83	Standard query 0xf7b2 AAAA websocketprod.co-vin.in
869	20.040153	192.168.43.142	8.8.8.8	DNS	83	Standard query 0x85e6 AAAA maxcdn.bootstrapcdn.com
870	20.040517	192.168.43.142	8.8.8.8	DNS	83	Standard query 0x74b1 A maxcdn.bootstrapcdn.com
871	20.041230	192.168.43.142	8.8.8.8	DNS	77	Standard query 0xf862 A cdn-api.co-vin.in
872	20.041563	192.168.43.142	8.8.8.8	DNS	69	Standard query 0x77c8 AAAA unpkg.com
873	20.041861	192.168.43.142	8.8.8.8	DNS	77	Standard query 0xf862 AAAA cdn-api.co-vin.in
874	20.042157	192.168.43.142	8.8.8.8	DNS	69	Standard query 0xf615 A unpkg.com
875	20.177478	8.8.8.8	192.168.43.142	DNS	149	Standard query response 0xf615 A unpkg.com A 104.16.123.175 A 104.16.126.175 A 104.16.12.
877	20.197604	8.8.8.8	192.168.43.142	DNS	115	Standard query response 0x74b1 A maxcdn.bootstrapcdn.com A 104.18.11.207 A 104.18.10.207
878	20.268930	4.2.2.1	192.168.43.142	DNS	183	Standard query response 0xf862 A cdn-api.co-vin.in CNWME d15r24xjnlm.cloudfront.net A
879	20.275560	4.2.2.1	192.168.43.142	DNS	115	Standard query response 0x74b1 A maxcdn.bootstrapcdn.com A 104.18.11.207 A 104.18.10.207
880	20.275650	192.168.43.142	4.2.2.1	TCP	143	Destination unreachable (Port unreachable)
881	20.284197	4.2.2.1	192.168.43.142	DNS	149	Standard query response 0xf615 A unpkg.com A 104.16.124.175 A 104.16.125.175 A 104.16.12.
885	20.304559	4.2.2.1	192.168.43.142	DNS	343	Standard query response 0x19bc AAAA cdn-api.co-vin.in CNWME d15r24xjnlm.cloudfront.net.
994	20.991563	192.168.43.142	8.8.8.8	DNS	83	Standard query 0xf7b2 AAAA websocketprod.co-vin.in
1000	21.055410	192.168.43.142	8.8.8.8	DNS	69	Standard query 0x77c8 AAAA unpkg.com
1001	21.055440	192.168.43.142	8.8.8.8	DNS	83	Standard query 0x85e6 AAAA maxcdn.bootstrapcdn.com
1037	21.292255	8.8.8.8	192.168.43.142	DNS	164	Standard query response 0xf7b2 AAAA websocketprod.co-vin.in SOA ns-439.awsdns-54.com
1040	21.302164	8.8.8.8	192.168.43.142	DNS	209	Standard query response 0x77c8 AAAA unpkg.com AAAA 2606:4700::6810:7daf AAAA 2606:4700::
1041	21.303833	8.8.8.8	192.168.43.142	DNS	183	Standard query response 0xf862 A cdn-api.co-vin.in CNWME d15r24xjnlm.cloudfront.net A
1042	21.303938	192.168.43.142	8.8.8.8	TCP	211	Destination unreachable (Port unreachable)

ICMPv6:

Time	Source	Destination	Protocol	Length	Info
583.12.232263	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
584.12.232388	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
525.12.547551	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
526.12.547638	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
527.12.564954	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
528.12.565152	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
2719.37.965795	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
2720.37.965833	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
2721.38.478865	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
2722.38.478996	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
2826.38.923236	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
2827.38.923280	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
4109.53.233010	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4000:820::2004	ICMPv6	1294	Destination Unreachable (Port unreachable)
4238.55.797611	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4000:820::2004	ICMPv6	1294	Handshake, SCID=0103012071551637
4527.58.345512	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2606:4700::6810:135e	ICMPv6	1294	Protected Payload (KPO)
4975.61.786540	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4000:820::2001	ICMPv6	1294	Destination Unreachable (Port unreachable)
5101.62.610268	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2606:4700::6810:135e	ICMPv6	1294	Protected Payload (KPO)
5211.63.400047	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4000:820::2001	ICMPv6	1294	Handshake, SCID=029567A092edaa
5270.63.550011	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2606:4700::6810:135e	ICMPv6	1294	Destination Unreachable (Port unreachable)
5864.67.418792	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
5865.67.418826	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
5930.67.791920	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
5931.67.791948	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
5990.68.274540	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
5991.68.274594	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
6050.68.549729	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
6051.68.549762	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
6222.70.333445	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
6223.70.333482	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
6267.70.543206	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
6268.70.543230	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
6380.70.749498	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38
6380.70.749535	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	fe80::c:ff:9eff:fe60:f538	ICMPv6	86	Neighbor Advertisement 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 (sol, ovr) is at ac:d5:64:
6384.71.483339	fe80::c:ff:9eff:fe60:f538	2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29	ICMPv6	86	Neighbor Solicitation for 2409:a060:2e95:dbc9:d5f2:f81b:c8eb:ff29 from 0e:ff:9e:60:f5:38

a. Find out what are those packets contain by following one of the conversations (also called network flows), select one of the packets and press the right mouse button..click on follow.

Clicking on a DNS packet and following the UDP stream,

Wireshark - Follow UDP Stream (udp.stream eq 19) - Wi-Fi

```

.....
websocketprod.co-vin.in.....
websocketprod.co-vin.in.....
websocketprod.co-vin.in.....E.ns-439      awsdns-54.com..awsdns-hostmaster.amazon.F.....u...Q.....
websocketprod.co-vin.in.....h.E.ns-439      awsdns-54.com..awsdns-hostmaster.amazon.F.....u...Q.....

```

2 client pkts, 2 server pkts, 1 turn.

Entire conversation (326 bytes)
Show data as ASCII
Stream 19

6. Search through your capture, and find an HTTP packet coming back from the server (TCP Source Port == 80). Expand the Ethernet layer in the Packet Details Panel.

tcp.port == 80						
	Time	Source	Destination	Protocol	Length	Info
	352.8.616712	192.168.43.142	3.6.187.241	TCP	1424	55327 → 80 [ACK] Seq=4111 Ack=1 Win=65536
	389.9.052830	3.6.187.241	192.168.43.142	TCP	66	[TCP Out-Of-Order] 80 → 55327 [SYN, ACK]
	390.9.052866	192.168.43.142	3.6.187.241	TCP	66	[TCP Dup ACK 347#1] 55327 → 80 [ACK] Seq=
	413.9.384274	3.6.187.241	192.168.43.142	TCP	54	80 → 55327 [ACK] Seq=1 Ack=1371 Win=29696
	414.9.384352	192.168.43.142	3.6.187.241	TCP	1424	55327 → 80 [ACK] Seq=5481 Ack=1 Win=65536
	415.9.384352	192.168.43.142	3.6.187.241	HTTP	281	POST /qcloudsec/ers/report/save HTTP/1.1
	416.9.387217	3.6.187.241	192.168.43.142	TCP	54	80 → 55327 [ACK] Seq=1 Ack=2741 Win=32512
	417.9.399526	3.6.187.241	192.168.43.142	TCP	54	80 → 55327 [ACK] Seq=1 Ack=4111 Win=35328
	427.9.482488	3.6.187.241	192.168.43.142	TCP	54	80 → 55327 [ACK] Seq=1 Ack=5481 Win=37888
	449.10.146426	3.6.187.241	192.168.43.142	TCP	54	80 → 55327 [ACK] Seq=1 Ack=6851 Win=40704
	450.10.161459	3.6.187.241	192.168.43.142	TCP	54	80 → 55327 [ACK] Seq=1 Ack=7078 Win=43520
	451.10.166741	3.6.187.241	192.168.43.142	HTTP	174	HTTP/1.1 200
	452.10.166967	192.168.43.142	3.6.187.241	TCP	54	55327 → 80 [FIN, ACK] Seq=7078 Ack=121 Wi
	460.10.272462	3.6.187.241	192.168.43.142	HTTP	174	[TCP Spurious Retransmission] HTTP/1.1 20
	461.10.272500	192.168.43.142	3.6.187.241	TCP	66	[TCP Dup ACK 452#1] 55327 → 80 [ACK] Seq=
	481.10.735062	3.6.187.241	192.168.43.142	HTTP	174	[TCP Spurious Retransmission] HTTP/1.1 20
Frame 451: 174 bytes on wire (1392 bits), 174 bytes captured (1392 bits) on interface \Device\NPF_{4BB60237-4A15-4A53-9782-6CE0AB8AD924}, id 0 Ethernet II, Src: 0e:ff:9e:60:f5:38 (0e:ff:9e:60:f5:38), Dst: Chongqin_d6:36:9d (ac:d5:64:d6:36:9d) ▾ Destination: Chongqin_d6:36:9d (ac:d5:64:d6:36:9d) Address: Chongqin_d6:36:9d (ac:d5:64:d6:36:9d)0. = LG bit: Globally unique address (factory default)0. = IG bit: Individual address (unicast) ▾ Source: 0e:ff:9e:60:f5:38 (0e:ff:9e:60:f5:38) Address: 0e:ff:9e:60:f5:38 (0e:ff:9e:60:f5:38)1. = LG bit: Locally administered address (this is NOT the factory default)0. = IG bit: Individual address (unicast) Type: IPv4 (0x0800) Internet Protocol Version 4, Src: 3.6.187.241, Dst: 192.168.43.142 Transmission Control Protocol, Src Port: 80, Dst Port: 55327, Seq: 1, Ack: 7078, Len: 120 Hypertext Transfer Protocol						

Packet 451 is an HTTP packet coming back from the server (tcp source port ==80).

7. What are the manufacturers of your PC's Network Interface Card (NIC), and the servers NIC?

Manufacturer of my Laptop's Network Interface Card (NIC):

Chongqing Fugui Electronics Co., Ltd

Manufacturer of the server's Network Interface Card (NIC):

MAC Address-- 0e:ff:9e:60:f5:38

8. What are the Hex values (shown the raw bytes panel) of the two NICS Manufacturers OUIs?

Laptop: ac-d5-64

Server: 0e-ff-9e

9. Find the following statistics:

a. What percentage of packets in your capture are TCP, and give an example of the higher level protocol which uses TCP?

b. What percentage of packets in your capture are UDP, and give an example of the higher level protocol which uses UDP?

Answers:

a. Out of 12211 packets captured, 10591 were TCP packets, i.e., TCP packets accounted for 86.7% of the total packets captured. HTTP (Hypertext Transfer Protocol) uses TCP.

Time	Source	Destination	Protocol	Length	Info
437 9.931625	15.206.175.204	192.168.43.142	TCP	54	55291 → 443 [ACK] Seq=262646 Ack=494 Win=126 Len=1370 [TCP segment of a reassembled PDU]
438 9.931724	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=494 Ack=264016 Win=2065 Len=0
439 9.940032	15.206.175.204	192.168.43.142	TCP	54	55291 → 443 [ACK] Seq=264016 Ack=494 Win=126 Len=1370 [TCP segment of a reassembled PDU]
440 9.993087	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=494 Ack=265386 Win=2065 Len=0
441 10.031285	15.206.175.204	192.168.43.142	TCP	54	55291 → 443 [ACK] Seq=265386 Ack=494 Win=126 Len=1370 [TCP segment of a reassembled PDU]
442 10.069021	15.206.175.204	192.168.43.142	TCP	54	55291 → 443 [ACK] Seq=266756 Ack=494 Win=126 Len=1370 [TCP segment of a reassembled PDU]
443 10.069095	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=494 Ack=268126 Win=2065 Len=0
444 10.081004	15.206.175.204	192.168.43.142	TCP	54	55291 → 443 [ACK] Seq=268126 Ack=494 Win=126 Len=1370 [TCP segment of a reassembled PDU]
445 10.094251	15.206.175.204	192.168.43.142	TCP	54	55291 → 443 [ACK] Seq=269496 Ack=494 Win=126 Len=1370 [TCP segment of a reassembled PDU]
446 10.094326	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=494 Ack=270866 Win=2065 Len=0
448 10.137730	15.206.175.204	192.168.43.142	SSLV2	1424	Encrypted Data [TCP segment of a reassembled PDU]
449 10.146426	3.6.187.241	192.168.43.142	TCP	54	80 → 55327 [ACK] Seq=1 Ack=6851 Win=40704 Len=0
450 10.161459	3.6.187.241	192.168.43.142	TCP	54	80 → 55327 [ACK] Seq=1 Ack=7078 Win=43520 Len=0
451 10.166741	3.6.187.241	192.168.43.142	HTTP	174	HTTP/1.1 200
452 10.166907	192.168.43.142	3.6.187.241	TCP	54	55327 → 80 [FIN, ACK] Seq=7078 Ack=121 Win=65536 Len=0
453 10.179291	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=494 Ack=272236 Win=2065 Len=0
454 10.216377	15.206.175.204	192.168.43.142	TCP	54	55291 → 443 [ACK] Seq=272236 Ack=494 Win=126 Len=1370 [TCP segment of a reassembled PDU]
455 10.235384	15.206.175.204	192.168.43.142	TCP	54	55291 → 443 [ACK] Seq=273606 Ack=494 Win=126 Len=1370 [TCP segment of a reassembled PDU]
456 10.235500	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=494 Ack=274976 Win=2065 Len=0
457 10.248107	15.206.175.204	192.168.43.142	TCP	54	55291 → 443 [ACK] Seq=274976 Ack=494 Win=126 Len=1370 [TCP segment of a reassembled PDU]
458 10.256372	15.206.175.204	192.168.43.142	TCP	54	55291 → 443 [ACK] Seq=276346 Ack=494 Win=126 Len=1370 [TCP segment of a reassembled PDU]
459 10.256718	192.168.43.142	15.206.175.204	TCP	54	55291 → 443 [ACK] Seq=494 Ack=277716 Win=2065 Len=0
460 10.272402	3.6.187.241	192.168.43.142	HTTP	174	[TCP Seq=7078, Retransmission] HTTP/1.1 200
461 10.272500	192.168.43.142	3.6.187.241	TCP	66	[TCP Dup ACK 452#1] 55327 → 80 [ACK] Seq=7079 Ack=121 Win=65536 Len=0 SRE=121

Frame 451: 174 bytes on wire (1392 bits), 174 bytes captured (1392 bits) on interface \Device\NPF_{ABB60237-4A15-AA53-9782-6CE0A8B8AD924}, id 0
Ethernet II, Src: 0e:ff:9e:60:f5:38 (0e:ff:9e:60:f5:38), Dst: Chonglin_d6:36:9d (ac:d5:64:d6:36:9d)
Internet Protocol Version 4, Src: 3.6.187.241, Dst: 192.168.43.142
Transmission Control Protocol, Src Port: 80, Dst Port: 55327, Seq: 1, Ack: 7078, Len: 120
Hypertext Transfer Protocol

000 ac d5 64 d6 36 9d 0e ff 9e 60 f5 38 00 00 45 28 ...d-6...-8--E-
010 00 a0 94 2c 40 00 e6 06 54 d5 03 06 bb f1 c0 a8 ...@...T-----
020 2b 0e 00 5b 08 1f d1 a2 4f cc df 0f c9 10 50 18 +P...O...-P-
030 00 ee 23 4c 00 00 48 54 54 50 2f 31 2e 31 20 32 --RL HT/TP/1.1 2
040 30 30 20 0d 0a 44 61 74 65 3a 20 4d 6f 6e 2c 20 00 -Dat e: Mon;
050 30 38 20 4e 6f 76 20 32 30 32 31 20 31 37 3a 33 08 Nov 2 021 17:3
060 39 3a 35 39 20 47 44 54 0d 0a 43 6f 6e 74 65 6e 9:59 GMT - Conten
070 74 2d 4c 6e 67 74 08 3a 20 30 0d 0a 43 6f 6e t-Length: 0 - Con
080 6e 65 63 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6e ction: keep-al
090 69 76 65 0d 0a 58 2d 53 45 52 56 45 52 2d 49 44 ive X-S ERVER-TD

Transmission Control Protocol: Protocol Packets: 12211 · Displayed: 10591 (86.7%) · Dropped: 0 (0.0%)

b. Out of 12211 packets captured, 1550 were UDP packets, i.e., UDP packets accounted for 12.7% of the total packets captured. SNMP (Simple Network Management Protocol) uses UDP.

Time	Source	Destination	Protocol	Length	Info
360 8.747793	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
361 8.748125	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:81c::2003	UDP	95	64401 → 443 Len=33
362 8.759369	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
363 8.784839	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:81c::2003	UDP	95	64401 → 443 Len=33
364 8.789484	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
365 8.815472	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:81c::2003	UDP	95	64401 → 443 Len=33
366 8.816517	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
367 8.833624	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
368 8.833325	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:81c::2003	UDP	95	64401 → 443 Len=33
371 8.860495	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
374 8.886318	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:81c::2003	UDP	95	64401 → 443 Len=33
375 8.896174	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
376 8.918825	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
377 8.919220	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:81c::2003	UDP	95	64401 → 443 Len=33
378 8.965017	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
379 8.991578	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:81c::2003	UDP	95	64401 → 443 Len=33
380 8.995132	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
383 9.018730	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1039	443 → 64401 Len=977
384 9.019044	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:81c::2003	UDP	95	64401 → 443 Len=33
418 9.416166	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	1392	443 → 64401 Len=1330
419 9.416394	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	2404:6800:4002:81c::2003	UDP	95	64401 → 443 Len=33
426 9.480789	2404:6800:4002:81c::2003	2409:4060:2e95:dbc9:d5f2:f81b:c8eb:ff29	UDP	87	443 → 64401 Len=25
447 10.101800	192.168.43.1	224.0.0.251	MDNS	103	Standard query 0x0020 PTR _AARF49E_.sub._googlecast._tcp.local, "QM" question P
838 18.969909	192.168.43.142	4.2.2.1	DNS	83	Standard query 0xf17c A websocketprod.co.vin.in

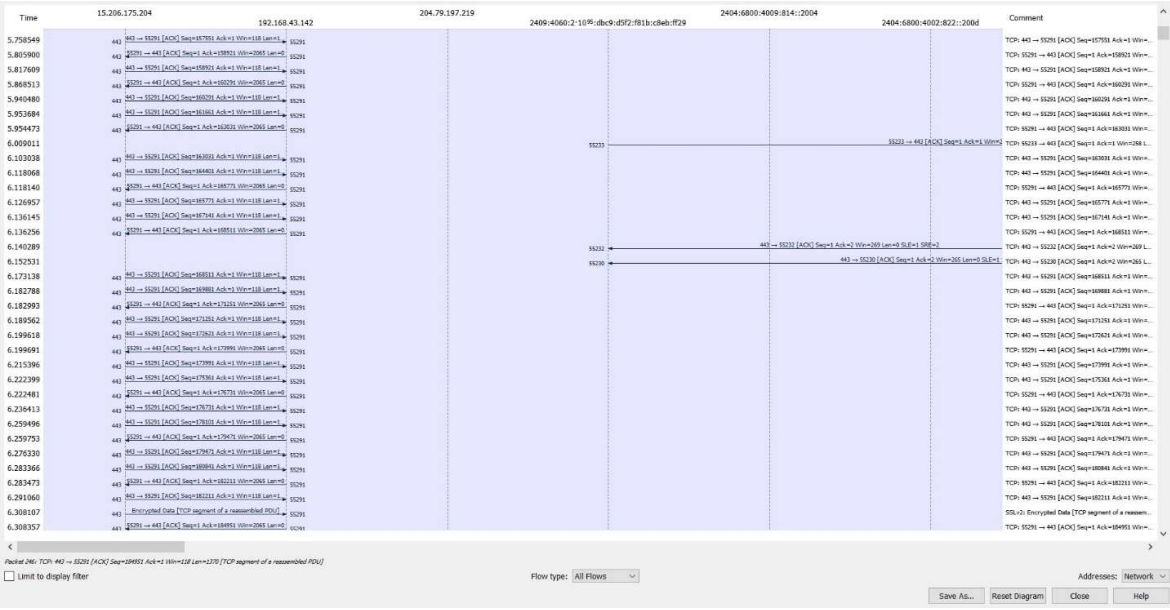
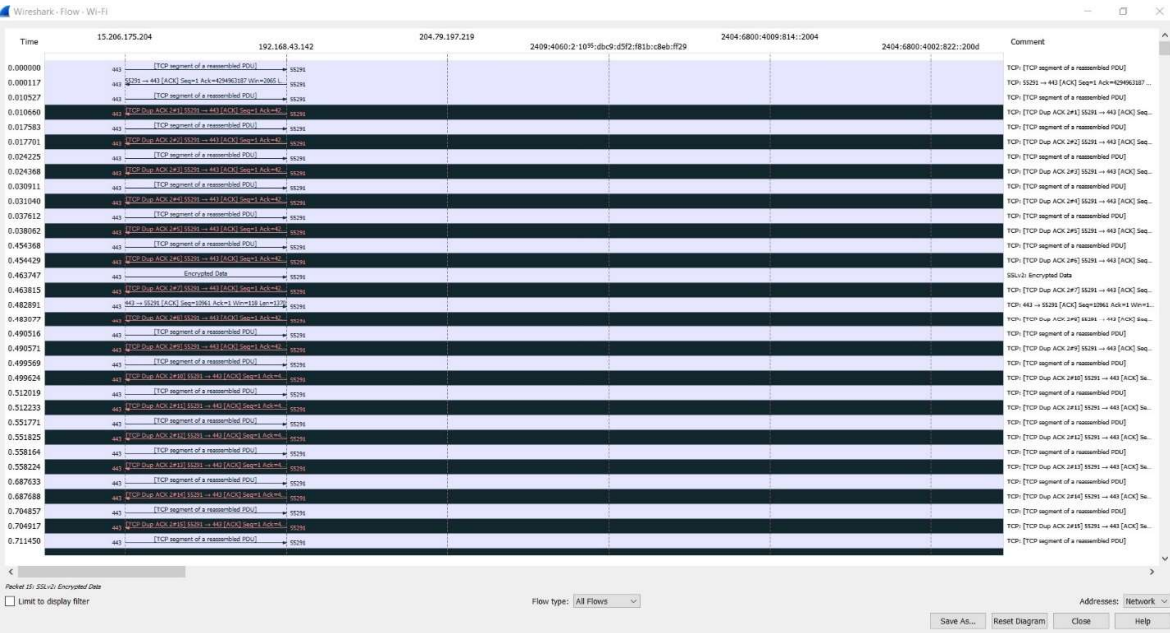
.....0..... = LG bit: Globally unique address (factory default)
.....1..... = IG bit: Group address (multicast/broadcast)
Source: 0e:ff:9e:60:f5:38 (0e:ff:9e:60:f5:38)
Address: 0e:ff:9e:60:f5:38 (0e:ff:9e:60:f5:38)
.....1..... = LG bit: Locally administered address (this is NOT the factory default)

000 01 00 5e 00 00 fb 0e ff 9e 60 f5 38 00 00 45 00 ...@...-8--E-
010 00 59 74 4a 40 00 ff 11 3a a4 c0 a8 2b 01 e0 00 ...YTJ@...:..-
020 00 7b 14 e9 14 e9 00 45 de 9e 00 23 00 00 02E-#-
030 00 00 00 00 00 00 00 5f 41 41 46 38 46 34 39 45_AARF49E
040 04 5f 73 75 62 0b 5f 67 6f 6f 67 6c 65 63 61 73 _sub._g ooglecas
050 74 04 5f 74 63 70 05 6c 6f 63 61 6c 00 00 0c 0 t._tcp.l ocal:..-
060 01 c0 1b 00 0c 01

User Datagram Protocol: Protocol Packets: 12211 · Displayed: 1550 (12.7%) · Dropped: 0 (0.0%)

10. Find the traffic flow. Select the Statistics->Flow Graph menu option. Choose General Flow and Network Source options, and click the OK button.

Snippets of the graph:



COMMENTS

The assignment was interesting as it gave us a real-world idea of the packets being sent using different protocols. I liked capturing the packets at different times when I was generating different amounts of traffic and see the results. I also learnt how to use a new analysing tool, Wireshark.