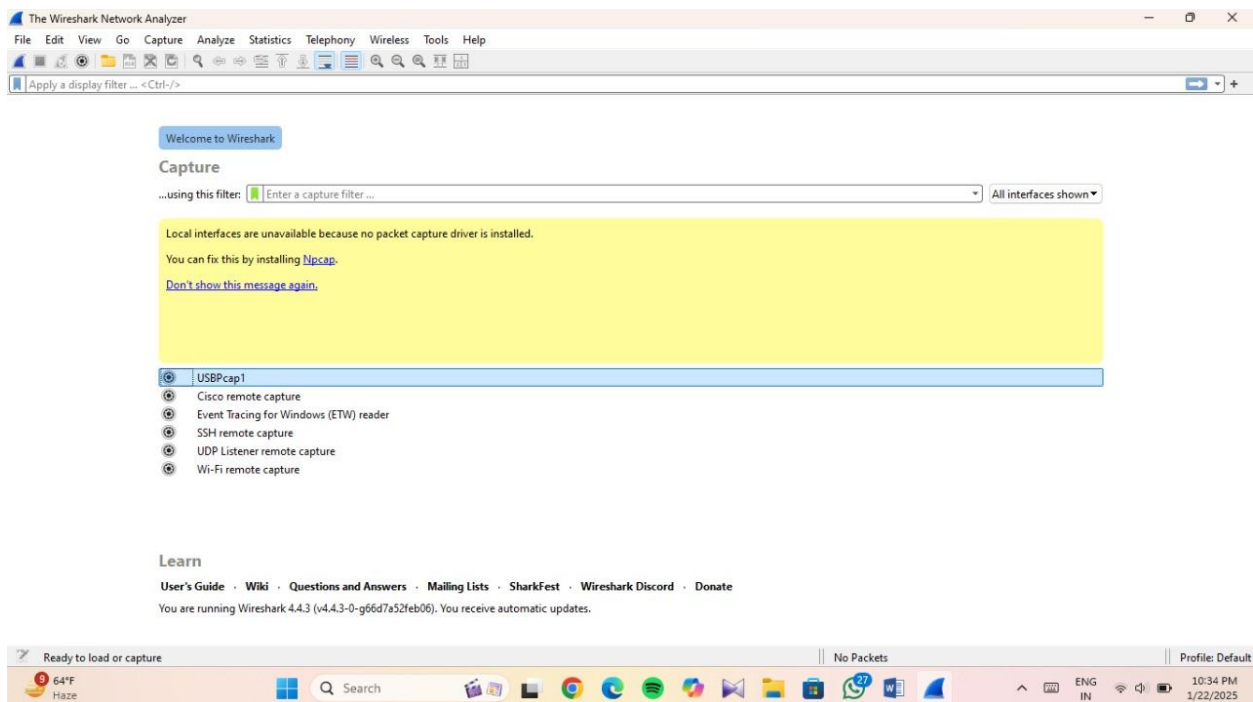


Wireshark:

Wireshark is a tool that lets you see what's happening on your computer network. It shows you all the data being sent and received, like websites you visit, files you download, or emails you send.

Wireshark is a powerful tool for capturing and analyzing network data, showing detailed information about packets traveling between your computer and the internet. It helps you understand traffic by revealing who is sending data, where it's going, and what type of data is being transmitted. With its ability to diagnose network issues, Wireshark is great for solving problems like slow internet or connectivity errors. Additionally, it's widely used in cybersecurity to study data flows and detect potential threats, making it an essential tool for both troubleshooting and learning.

Wireshark Install:



1.Capture packets while browsing the internet:

Capturing from wlan0s20f3

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

Apply a display filter ... <Ctrl>F

No.	Time	Source	Destination	Protocol	Length	Info
37	19.73	2404:6...	2409:4081...	TCP	86	443 → 50806 [ACK] Seq=1952 Ack=6704 Win=263680 Len=0 TSval=1914376715 TSecr=1975575976
38	19.74	2404:6...	2409:4081...	TCP	86	443 → 50806 [ACK] Seq=1952 Ack=7232 Win=263168 Len=0 TSval=1914376717 TSecr=1975575976
39	19.81	2404:6...	2409:4081...	TLSv1.3	809	Application Data
40	19.81	2404:6...	2409:4081...	TLSv1.3	148	Application Data
41	19.81	2404:6...	2409:4081...	TLSv1.3	117	Application Data
42	19.81	2404:6...	2409:4081...	TLSv1.3	125	Application Data
43	19.81	2409:4...	2404:6890...	TCP	86	50806 → 443 [ACK] Seq=7232 Ack=2798 Win=62464 Len=0 TSval=1975576117 TSecr=1914376787
44	19.81	2409:4...	2404:6890...	TLSv1.3	125	Application Data
45	19.81	64:ff9...	2409:4081...	TCP	86	443 → 54226 [ACK] Seq=27 Ack=31 Win=75 Len=0 TSval=3144900468 TSecr=1072193917
46	19.84	2409:4...	2403:2880...	TLSv1.2	156	Application Data
47	19.88	2404:6...	2409:4081...	TCP	86	443 → 50806 [ACK] Seq=2798 Ack=7271 Win=263168 Len=0 TSval=1914376859 TSecr=1975576117
48	19.88	2404:6...	2409:4081...	TCP	86	443 → 45484 [ACK] Seq=73 Ack=141 Win=2043 Len=0 TSval=3779069790 TSecr=2964512071
49	20.17	2403:2...	2409:4081...	TLSv1.2	158	Application Data
50	20.17	2409:4...	2403:2880...	TCP	86	45484 → 443 [ACK] Seq=141 Ack=145 Win=8832 Len=0 TSval=2964513197 TSecr=3779069988
51	20.81	2409:4...	2404:6890...	TCP	86	38828 → 443 [ACK] Seq=1 Ack=1 Win=455 Len=0 TSval=653552084 TSecr=4196531427
52	20.88	2404:6...	2409:4081...	TCP	86	[TCP ACKed unseen segment] 443 → 38828 [ACK] Seq=1 Ack=2 Win=1047 Len=0 TSval=4196578686 TSecr=653504819
53	22.73	2409:4...	2403:2880...	TCP	156	35780 → 5222 [PSH, ACK] Seq=1 Ack=1 Win=3760 Len=0 TSval=2977425484 TSecr=2018321296
54	22.78	2403:2...	2409:4081...	TCP	86	5222 → 35780 [ACK] Seq=1 Ack=71 Win=2043 Len=0 TSval=2018349075 TSecr=2977425484
55	23.05	2409:4...	64:ff9b:2...	TCP	86	45196 → 443 [ACK] Seq=1 Ack=1 Win=3273 Len=0 TSval=2776850329 TSecr=1203954122
56	23.12	2403:2...	2409:4081...	TCP	158	5222 → 35780 [PSH, ACK] Seq=1 Ack=71 Win=2043 Len=0 TSval=2018349296 TSecr=2977425484
57	23.12	2409:4...	2403:2880...	TCP	86	35780 → 5222 [ACK] Seq=71 Ack=73 Win=3760 Len=0 TSval=2977425878 TSecr=2018349296
58	23.19	64:ff9...	2409:4081...	TCP	86	[TCP ACKed unseen segment] 443 → 45196 [ACK] Seq=1 Ack=2 Win=289 Len=0 TSval=1203999497 TSecr=2776805266
59	24.57	fe80::...	2409:4081...	ICMPv6	86	Neighbor Solicitation for 2409:4081:8792:4b2a:b200:bd09:49ba:616 from 46:6d:94:af:65:ed
60	24.57	2409:4...	fe80::...	ICMPv6	78	Neighbor Advertisement 2409:4081:8792:4b2a:b200:bd09:49ba:616 (sol)

Frame 1: 86 bytes on wire (688 bits), 86 bytes captured (688 bits) on interface wlan0s20f3, id 0
 Ethernet II, Src: Intel_85:5c:a5 (46:6d:94:af:65:ed), Dst: Intel_85:5c:a5 (3c:21:9c:85:5c:a5)
 Internet Protocol Version 6, Src: fe80::446d:94ff:feaf:65ed, Dst: 2409:4081:8792:4b2a:b200:bd09:49ba:616
 Internet Control Message Protocol v6

wlan0s20f3: «live capture in progress»

Packets: 60 Profile: Default

2. Identify HTTP Vs HTTPS traffic

2.1 Identify HTTP traffic:

Capturing from wlan0s20f3

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	Info
1	89.69	91.189...	192.168.42...	HTTP	255	HTTP/1.1 204 No Content
1	92.18	2409:4...	2620:2d:40...	HTTP	174	GET / HTTP/1.1
1	92.56	2620:2...	2409:4081...	HTTP	271	HTTP/1.1 204 No Content
4	389.8	192.168...	91.189.91...	HTTP	154	GET / HTTP/1.1
4	389.2	91.189...	192.168.42...	HTTP	251	HTTP/1.1 204 No Content
4	392.4	2409:4...	2620:2d:40...	HTTP	174	GET / HTTP/1.1

Frame 1226: 154 bytes on wire (1232 bits), 154 bytes captured (1232 bits) on interface wlan0s20f3, id 0
 Ethernet II, Src: Intel_85:5c:a5 (3c:21:9c:85:5c:a5), Dst: 46:6d:94:af:65:ed (46:6d:94:af:65:ed)
 Internet Protocol Version 4, Src: 192.168.42.127, Dst: 91.189.91.48
 Transmission Control Protocol, Src Port: 45486, Dst Port: 80, Seq: 1, Ack: 1, Len: 88
 Hypertext Transfer Protocol

Hypertext Transfer Protocol: Protocol

Packets: 4693 · Displayed: 7 (0.1%) Profile: Default

Identify HTTP Traffic using port 80:

Capturing from wlan0

No.	Time	Source	Destination	Protocol	Length	Info
1.	92.18..	2620:2d:4002:1::198	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	94	80 → 56754 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1370 SACK_PERM TSval=271 HTTP/1.1 204 No Content
1.	92.56..	2620:2d:4002:1::198	2409:4081:8792:4b2a:b200:bd09:49ba:616	HTTP	271	HTTP/1.1 204 No Content
1.	92.56..	2620:2d:4002:1::198	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	86	80 → 56754 [FIN, ACK] Seq=186 Ack=89 Win=65536 Len=0 TSval=1169363559 TSecr=763..
1.	92.97..	2620:2d:4002:1::198	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	86	80 → 56754 [ACK] Seq=187 Ack=90 Win=65536 Len=0 TSval=1169363929 TSecr=763..
4.	392.4..	2620:2d:4000:1::98	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	94	80 → 48962 [SYN, ACK] Seq=0 Ack=1 Win=64260 Len=0 MSS=1370 SACK_PERM TSval=86 [TCP Previous segment not captured] 80 → 48962 [FIN, ACK] Seq=186 Ack=89 W..
4.	392.9..	2620:2d:4000:1::98	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	271	[TCP Out-Of-Order] 80 → 48962 [PSH, ACK] Seq=1 Ack=89 Win=65536 Len=189 TS..
4.	394.9..	2620:2d:4000:1::98	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	74	80 → 48962 [RST] Seq=187 Win=0 Len=0
8.	692.1..	2620:2d:4000:1::2a	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	94	80 → 58646 [SYN, ACK] Seq=0 Ack=1 Win=64260 Len=0 MSS=1370 SACK_PERM TSval=86 [TCP Previous segment not captured] 80 → 58646 [FIN, ACK] Seq=190 Ack=89 W..
8.	692.8..	2620:2d:4000:1::2a	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	275	[TCP Out-Of-Order] 80 → 58646 [PSH, ACK] Seq=1 Ack=89 Win=65536 Len=189 TS..
8.	693.4..	2620:2d:4000:1::2a	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	86	[TCP Retransmission] 80 → 58646 [FIN, ACK] Seq=190 Ack=89 Win=65536 Len=0 ..
8.	693.7..	2620:2d:4000:1::2a	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	94	80 → 58646 [ACK] Seq=191 Ack=89 Win=65536 Len=0 TSval=31145442 TSe..
8.	857.3..	2404:6800:4009:82a::200e	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	86	80 → 36820 [SYN, ACK] Seq=1 Ack=482 Win=269568 Len=0 TSval=31145379 TSecr=28169..
8.	857.3..	2404:6800:4009:82a::200e	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	86	80 → 36820 [ACK] Seq=1 Ack=482 Win=269568 Len=0 TSval=31145379 TSecr=28169..
8.	857.4..	2404:6800:4009:82a::200e	2409:4081:8792:4b2a:b200:bd09:49ba:616	HTTP/JSON	1221	80 → 36820 [PSH, ACK] Seq=1 Ack=482 Win=269568 Len=1135 TSval=31145442 TSe..
8.	857.4..	2404:6800:4009:82a::200e	2409:4081:8792:4b2a:b200:bd09:49ba:616	HTTP/JSON	106	HTTP/1.1 200 OK , JSON (Application/json)
8.	857.5..	2404:6800:4009:82a::200e	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	86	80 → 36820 [FIN, ACK] Seq=1156 Ack=483 Win=269568 Len=0 TSval=31145509 TSe..
9.	992.0..	2620:2d:4000:1::22	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	94	80 → 58714 [SYN, ACK] Seq=0 Ack=1 Win=64260 Len=0 MSS=1370 SACK_PERM TSval=86 [TCP Previous segment not captured] 80 → 58714 [FIN, ACK] Seq=190 Ack=89 W..
9.	992.0..	2620:2d:4000:1::22	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	275	[TCP Out-Of-Order] 80 → 58714 [PSH, ACK] Seq=1 Ack=89 Win=65536 Len=189 TS..
9.	992.6..	2620:2d:4000:1::22	2409:4081:8792:4b2a:b200:bd09:49ba:616	TCP	86	80 → 58714 [ACK] Seq=191 Ack=90 Win=65536 Len=0 TSval=355961959 TSecr=389..
9.	991.6..	2409:4081:8792:4b2a:b200:bd09:49ba:616	2620:2d:4000:1::22	TCP	94	58714 → 80 [SYN] Seq=0 Win=64952 Len=0 MSS=1412 SACK_PERM TSval=389658188 ..
9.	992.0..	2409:4081:8792:4b2a:b200:bd09:49ba:616	2620:2d:4000:1::22	TCP	86	58714 → 80 [ACK] Seq=1 Ack=1 Win=65024 Len=0 TSval=389658188 TSecr=3559618..
9.	992.0..	2620:2d:4000:1::22	2620:2d:4000:1::22	HTTP	174	GET / HTTP/1.1
Frame 8316: 86 bytes on wire (688 bits), 86 bytes captured (688 bits) on interface wlan0, id 0 Ethernet II, Src: 46:0d:94:af:65:ed (46:0d:94:af:65:ed), Dst: Intel_85:5c:a5 (3c:21:9c:85:5c:a5) Internet Protocol Version 6, Src: 2620:2d:4000:1::22, Dst: 2409:4081:8792:4b2a:b200:bd09:49ba:616 Transmission Control Protocol, Src Port: 80, Dst Port: 58646, Seq: 191, Ack: 90, Len: 0						

wireshark wlan0:337JW02.pcapng Packets: 10927 - Displayed: 92 (0.8%) Profile: Default

2.2 Identify HTTPS TRAFFIC:

Using SSL filter :

Capturing from wlan0

No.	Time	Source	Destination	Protocol	Length	Info
5.	422.7..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	1292	Initial, DCID=d2907eb12478b196, PKN: 3, PADDING, CRYPTO, CRYPTO, CRYPTO, CRYPTO, PADDING, PING, PADDING, CRYPTO, CRYPTO, PING, CRYPTO, CRYPTO, PADDING
5.	422.8..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	603	Client Hello (SNI=location.services.mozilla.com)
5.	422.8..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	1292	Initial, DCID=d2907eb12478b196, PKN: 5, CRYPTO, PADDING
5.	422.8..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	2134	Server Hello, Change cipher Spec
5.	422.8..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	1125	Application Data
5.	422.8..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	92	Change Cipher Spec
5.	422.8..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	160	Application Data
5.	422.8..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	181	Application Data, Application Data
5.	422.8..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	230	Application Data, Application Data
5.	422.8..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	251	Application Data
5.	422.9..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	738	Application Data, Application Data
5.	422.9..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	117	Application Data
5.	422.9..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	117	Application Data
5.	423.1..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	239	Application Data
5.	423.1..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	125	Application Data
5.	428.0..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	112	[TCP Previous segment not captured] , Application Data
5.	428.2..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	125	Application Data
5.	433.0..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	125	Application Data
5.	434.5..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	2762	Application Data
5.	434.7..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	1176	Application Data
5.	434.7..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	117	Application Data
5.	434.7..	2404:6800::	2409:4081:8792:4b2a:b200:bd09:49ba:616	QUIC	125	Application Data
Frame 1217: 159 bytes on wire (1272 bits), 159 bytes captured (1272 bits) on interface wlan0, id 0 Ethernet II, Src: 46:0d:94:af:65:ed (46:0d:94:af:65:ed), Dst: Intel_85:5c:a5 (3c:21:9c:85:5c:a5) Internet Protocol Version 6, Src: 2404:6800:4009:82a::200e, Dst: 2409:4081:8792:4b2a:b200:bd09:49ba:616 Transmission Control Protocol, Src Port: 443, Dst Port: 43324, Seq: 1, Ack: 2, Len: 73 Transport Layer Security						

wireshark wlan0:337JW02.pcapng Packets: 5540 - Displayed: 673 (12.1%) Profile: Default

Using port 443:

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

tcp.port == 443

No.	Time	Source	Destination	Protocol	Length	Info
6.656.1	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.3	125	Application Data
6.658.9	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TCP	86	443 → 45484 [ACK] Seq=53542 Ack=8005 Win=2043 Len=0 TSval=3779789847 TSecr=...
6.659.1	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.2	158	Application Data
6.662.1	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.2	779	Application Data
6.662.2	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TCP	86	443 → 45484 [ACK] Seq=54307 Ack=8904 Win=2043 Len=0 TSval=3779712217 TSecr=...
6.679.0	64:ff9b::8c52:7019		2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.2	112	Application Data
6.679.5	64:ff9b::8c52:7019		2409:4081:8792:4b2a:b200:bd69:49ba:616	TCP	86	443 → 54226 [ACK] Seq=313 Ack=361 Win=75 Len=0 TSval=3145566194 TSecr=1072...
6.682.2	2.404.6800	4089:82e::200e	2409:4081:8792:4b2a:b200:bd69:49ba:616	TCP	86	443 → 40148 [ACK] Seq=3485 Ack=7314 Win=263168 Len=0 TSval=363221838 TSecr=...
6.682.2	2.404.6800	4089:82e::200e	2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.3	125	Application Data
6.686.2	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TCP	86	443 → 45484 [ACK] Seq=54307 Ack=8974 Win=2043 Len=0 TSval=3779736227 TSecr=...
6.690.7	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.2	158	Application Data
6.690.4	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.2	173	Application Data
6.690.5	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TCP	86	443 → 45484 [ACK] Seq=54466 Ack=9059 Win=2043 Len=0 TSval=3779748494 TSecr=...
6.697.3	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.2	364	Application Data
6.697.4	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TCP	86	443 → 45484 [ACK] Seq=54744 Ack=9131 Win=2043 Len=0 TSval=3779747427 TSecr=...
6.702.5	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TCP	86	443 → 45484 [ACK] Seq=54744 Ack=9201 Win=2043 Len=0 TSval=3779752527 TSecr=...
6.703.0	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.2	158	Application Data
6.709.4	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.3	125	Application Data
6.709.4	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.3	110	Application Data
6.709.4	2.403.2880	f33d:120:face:b00c:0:167	2409:4081:8792:4b2a:b200:bd69:49ba:616	TCP	86	443 → 55200 [FIN, ACK] Seq=900 Ack=2607 Win=71168 Len=0 TSval=1255939195 T...
6.718.6	64:ff9b::2265:7356		2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.2	206	Application Data
6.719.1	64:ff9b::2295:64d1		2409:4081:8792:4b2a:b200:bd69:49ba:616	TCP	84	443 → 45596 [SYN, ACK] Seq=90 Ack=1 Win=65535 Len=0 MSS=1376 SACK_PERM TSva...
6.719.3	64:ff9b::2295:64d1		2409:4081:8792:4b2a:b200:bd69:49ba:616	ACK	86	443 → 45596 [ACK] Seq=1 Ack=219 Win=268090 Len=0 TSval=1105866973 TSecr=21...
6.719.3	64:ff9b::2295:64d1		2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.2	2134	Server Hello
6.719.3	64:ff9b::2295:64d1		2409:4081:8792:4b2a:b200:bd69:49ba:616	TLsv1.2	1115	Certificate, Server Key Exchange, Server Hello Done

Frame 8296: 86 bytes on wire (688 bits), 86 bytes captured (688 bits) on interface wlp0s20f3, id 0
 Ethernet II, Src: 46:6d:94:af:65:ed, Dst: Intel_E5:5c:a5 (3c:21:9c:85:c5:a5)
 Internet Protocol Version 6, Src: 2403:2880:f33d:120:face:b00c:0:167, Dst: 2409:4081:8792:4b2a:b200:
 Transmission Control Protocol, Src Port: 4484, Seq: 54466, Ack: 9059, Len: 0

0000 3c 21 9c 85 a5 46 6d 94 af 65 ed bd dd 62 ca <!-- Fm e b
 0010 6b 9e 00 20 06 37 24 68 28 08 f3 3d 01 20 fa c
 0020

3. Identify the IP address of a website you visit.

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Capturing on wlan0s20f3

ip.src==192.168.42.127

No.	Time	Source	Destination	Protocol	Length	Info
6.	741.1.	192.168.42.127	140.82.112.26	TCP	54	60402 -> 443 [RST] Seq=1987 Win=0 Len=0
8.	741.1.	192.168.42.127	140.82.112.26	TCP	54	60402 -> 443 [RST] Seq=1987 Win=0 Len=0
8.	689.0.	192.168.42.127	185.125.190.18	TCP	74	45202 -> 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1400 SACK_PERM TSval=445670220
8.	689.7.	192.168.42.127	185.125.190.18	TCP	66	45202 -> 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=445670832 TSecr=1403870
8.	689.7.	192.168.42.127	185.125.190.18	HTTP	154	GET / HTTP/1.1
8.	690.4.	192.168.42.127	185.125.190.18	TCP	66	45202 -> 80 [ACK] Seq=89 Ack=190 Win=64128 Len=0 TSval=445671548 TSecr=1403
8.	690.4.	192.168.42.127	185.125.190.18	TCP	66	45202 -> 80 [FIN, ACK] Seq=89 Ack=191 Win=64128 Len=0 TSval=445671548 TSecr=
9.	988.6.	192.168.42.127	185.125.190.49	TCP	74	42992 -> 80 [SYN] Seq=0 Win=64240 Len=0 MSS=1400 SACK_PERM TSval=177565955
9.	988.8.	192.168.42.127	185.125.190.49	TCP	66	42992 -> 80 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=177565327 TSecr=2550368
9.	988.8.	192.168.42.127	185.125.190.49	HTTP	154	GET / HTTP/1.1
9.	989.3.	192.168.42.127	185.125.190.49	TCP	66	42992 -> 80 [ACK] Seq=89 Ack=190 Win=64128 Len=0 TSval=177565782 TSecr=2550
9.	989.3.	192.168.42.127	185.125.190.49	TCP	66	42992 -> 80 [FIN, ACK] Seq=89 Ack=191 Win=64128 Len=0 TSval=177565782 TSecr=
1.	129.0.	192.168.42.127	192.168.42.186	DNS	86	Standard query 0xe3cd AAAA ssl.gstatic.com OPT
1.	129.0.	192.168.42.127	192.168.42.186	DNS	86	Standard query 0x9e9e HTTPS ssl.gstatic.com OPT
1.	129.0.	192.168.42.127	192.168.42.186	DNS	86	Standard query 0x9c2a A ssl.gstatic.com OPT
1.	129.1.	192.168.42.127	192.168.42.186	DNS	75	Standard query 0x139a AAAA ssl.gstatic.com
1.	129.1.	192.168.42.127	192.168.42.186	DNS	75	Standard query 0xaaba A ssl.gstatic.com
1.	129.1.	192.168.42.127	192.168.42.186	DNS	75	Standard query 0x2933 HTTPS ssl.gstatic.com
1.	145.0.	192.168.42.127	192.168.42.186	DNS	79	Standard query 0x3376 HTTPS accounts.google.com
1.	145.0.	192.168.42.127	192.168.42.186	DNS	79	Standard query 0x7d5f A accounts.google.com
1.	145.0.	192.168.42.127	192.168.42.186	DNS	79	Standard query 0xa32c AAAA accounts.google.com
1.	148.8.	192.168.42.127	192.168.42.186	DNS	75	Standard query 0xaaf2 A www.youtube.com
1.	148.8.	192.168.42.127	192.168.42.186	DNS	75	Standard query 0x4aed AAAA www.youtube.com
1.	148.8.	192.168.42.127	192.168.42.186	DNS	83	Standard query 0x6526 A youtube-ui.l.google.com
1.	148.8.	192.168.42.127	192.168.42.186	DNS	83	Standard query 0x5471 AAAA youtube-ui.l.google.com
<pre> Frame 1360: 86 bytes on wire (688 bits), 86 bytes captured (688 bits) on interface wlan0s20f3, id 0 Ethernet II, Src: Intel:85:3c:a5 (3c:21:9c:85:3c:a5), Dst: 46:6d:94:af:05:ed (46:6d:94:af:05:ed) Internet Protocol Version 4, Src: 192.168.42.127, Dst: 192.168.42.186 User Datagram Protocol, Src Port: 57851, Dst Port: 53 Domain Name System (query) 0000 46 6d 94 af 05 ed 3c 21 9c 85 3c a5 00 00 45 00 Fa-e<1-\-E 0010 00 48 00 7e 00 00 41 11 97 9d c0 a8 2a 7f c0 a8 H--0-..... 0020 2a ba de cb 00 35 00 46 de cf e3 cd 01 00 00 01 ..54-..... 0030 00 00 00 00 01 03 73 73 68 07 07 73 73 61 74 ..-s sl gstat 0040 09 03 03 03 0f 6d 00 00 1c 00 01 00 00 29 05 c0 ic com-....) 0050 00 00 00 00 00 00 </pre>						

wireshark wlan0s20f3[1]wlan0s20f3.pcapng
Packets: 9735 | Discarded: 228 (2.3%)
Profile: Default

4. Ping google.com:

```
Command Prompt
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>ping google.com

Pinging google.com [2404:6800:4009:827::200e] with 32 bytes of data:
Reply from 2404:6800:4009:827::200e: time=20ms
Reply from 2404:6800:4009:827::200e: time=117ms
Reply from 2404:6800:4009:827::200e: time=19ms
Reply from 2404:6800:4009:827::200e: time=65ms

Ping statistics for 2404:6800:4009:827::200e:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 19ms, Maximum = 117ms, Average = 55ms

C:\Users\HP>
```

5. tracert google.com

```
Command Prompt
C:\Users\HP>ping google.com

Pinging google.com [2404:6800:4009:827::200e] with 32 bytes of data:
Reply from 2404:6800:4009:827::200e: time=20ms
Reply from 2404:6800:4009:827::200e: time=117ms
Reply from 2404:6800:4009:827::200e: time=19ms
Reply from 2404:6800:4009:827::200e: time=65ms

Ping statistics for 2404:6800:4009:827::200e:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 19ms, Maximum = 117ms, Average = 55ms

C:\Users\HP>tracert google.com

Tracing route to google.com [2404:6800:4009:827::200e]
over a maximum of 30 hops:

  1  3 ms  5 ms  4 ms  2405:201:3027:5047:8ea3:99ff:fe91:fee
  2  *      *      *      Request timed out.
  3  47 ms  9 ms  10 ms  2405:200:801:1200::1004
  4  32 ms  8 ms  9 ms  2405:200:801:1200::105e
  5  26 ms  8 ms  5 ms  2405:200:870:3168:61::6
  6  *      *      *      Request timed out.
  7  119 ms  9 ms  208 ms  2405:200:801:1200::4ba
  8  *      *      *      Request timed out.
  9  24 ms  64 ms  23 ms  2405:200:801:200::9b3
 10  20 ms  21 ms  22 ms  2001:4860:1:1::270
 11  85 ms  58 ms  *      2001:4860:0:1::871f
 12  52 ms  22 ms  22 ms  2001:4860:0:1::2b4b
 13  56 ms  23 ms  48 ms  bom12s14-in-x0e.1e100.net [2404:6800:4009:827::200e]

Trace complete.

C:\Users\HP>
```