Q1. What is the name of website?

The website is identified from the SNI extension in the ClientHello. **Website:** `www.youtube.com`

- - -

Q2. Find the packet that contains the Initial QUIC handshake. What information is exchanged here?

Packet 58

- **Type:** Initial QUIC packet
- **Information exchanged:**
 - TLS **ClientHello**
 - Proposed cipher suites (3 suites offered)
 - Key share values: X25519MLKEM768, x25519, secp256r1
 - Supported version: TLS 1.3
 - QUIC transport parameters
 - Connection IDs (DCID, SCID)

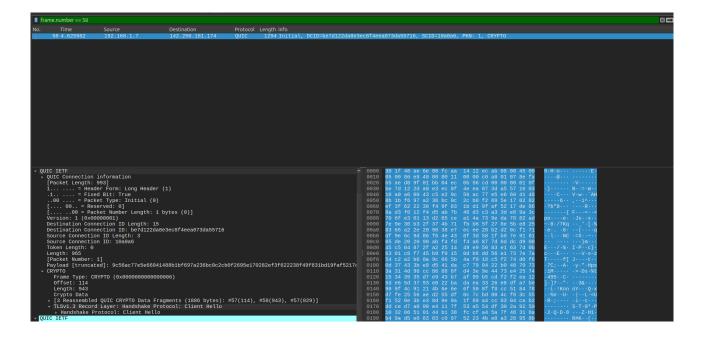
Time Source Destination Protocol Length info 39 3/37924 192,1681.7 112,141.83 124.250.181.174 QUIC 1254 Initial, DCID=Print(225482852674686875716, SCID=130860, PKN: 1, CRYPTO 158 4.655862 192,1681.7 142,259.182.174 QUIC 1254 Initial, DCID=Print(225485455726, SCID=130860, PKN: 1, CRYPTO 158 4.655862 192,1681.7 142,259.182.183 142.280.182.174 QUIC 1254 Initial, DCID=Print(22548545526736738), SCID=7130860, PKN: 1, CRYPTO 158 5.7 108 197 192,168.1.7 142,259.182.134 QUIC 1254 Initial, DCID=Print(22548545526735738), SCID=210167, PKN: 1, CRYPTO 158 7.7 108 192,168.1.7 142,259.181.134 QUIC 1254 Initial, DCID=S06485452673650849, SCID=201167, PKN: 1, CRYPTO 158 7.7 108 192,168.1.7 142,259.181.134 QUIC 1254 Initial, DCID=S0648573650849, SCID=201167, PKN: 1, CRYPTO 158 7.9 192,168.1.7 142,259.181.134 QUIC 1254 Initial, DCID=S06486736508649, SCID=201167, PKN: 1, CRYPTO 158 9.9 1185.96 192,168.1.7 142,259.282.46 QUIC 1254 Initial, DCID=S064867365086689, SCID=201167, PKN: 1, CRYPTO 158 19. 108.5866 192,168.1.7 142,259.181.161 TLSVI.3 1952 Client Hello (SNI-14X159616660880886868198C, SCID=458476, PKN: 1, CRYPTO 158 19. 108.58669 192,168.1.7 172,277.169,238 TLSVI.3 1959 Client Hello (SNI-14X15961674) PKN: 1, CRYPTO 158 19. 108.58669 192,168.1.7 172,277.169,238 TLSVI.3 1959 Client Hello (SNI-14X15961674) PKN: 1, CRYPTO 158 19. 108.58669 192,168.1.7 172,277.169,238 TLSVI.3 1959 Client Hello (SNI-14X15961674) PKN: 1, CRYPTO 158 192,168.1.7 142,259.181.14 TLSVI.2 231 Client Hello (SNI-14X1596167476697468582767476994688878681841375896362, SCID=17866, PKN: 1, CRYPTO 158 193 bytes on wire (15864 bits), 193 bytes captured (15964 bits) on interface New Incomplete New I	192_168.1.7	38 3.379924 192.168.1.7 151.181.141.91 TLSVI 58 4.62598 2 192.168.1.7 142.259.181.174 QUIC 415 6.832253 192.168.1.7 142.259.181.174 QUIC 415 6.832253 192.168.1.7 142.259.180.292.214 QUIC 416 6.841572 192.168.1.7 142.259.180.292.214 QUIC 415 6.898893 152.168.1.7 142.259.180.214 QUIC 415 6.988893 152.168.1.7 142.259.187.3 QUIC 415 6.988893 192.168.1.7 142.259.181.164 QUIC 618 7.782890 192.168.1.7 142.259.181.164 QUIC 619 7.834192 192.168.1.7 142.259.181.160 QUIC 619 7.9334199 192.168.1.7 142.259.181.160 QUIC 619 7.9334199 192.168.1.7 142.259.181.101 QUIC 619 7.9334199 192.168.1.7 142.259.181.101 QUIC 619 7.9334199 192.168.1.7 142.259.202.46 TLSVI 619 7.9334199 192.168.1.7 142.259.202.239 QUIC 619 1.126551 192.168.1.7 142.259.202.239 TLSVI 619 1.126561 192.168.1.7 142.259.202.239 TLSVI 619 1.12661 192.168.1.7 142.259.202.239 TLSVI	1.3 1983 Client Hello (SNI=firefox-settings-artachments.cdn.mozilla.net)
184.65982 192.168.1.7 142.280.281.174 QUIC 1284 Initial, DCID=06814224863ec8 f4eee8734655716, SCID=18086, PKN: 1, CRYPTO 1180.6.81577 192.168.1.7 142.250.280.241 QUIC 1284 Initial, DCID=068458545650267378, SCID=37596, PKN: 1, CRYPTO 1180.6.81577 192.168.1.7 142.250.280.243 QUIC 1284 Initial, DCID=0684585455026027378, SCID=180759, PKN: 1, CRYPTO 1180.6.81577 192.168.1.7 142.250.280.240 QUIC 1284 Initial, DCID=0684585455026027378, SCID=37596, PKN: 1, CRYPTO 1180.7817 192.168.1.7 142.250.281.161 QUIC 1284 Initial, DCID=0684654762789869, SCID=280766, PKN: 1, CRYPTO 1180.880 9.188.11 192.168.1.7 142.250.181.161 QUIC 1284 Initial, DCID=068467787388.1616.08574167964, SCID=375676, PKN: 1, CRYPTO 1180.880 9.188.17 142.250.181.161 QUIC 1284 Initial, DCID=068467787388.1616.08574167964, SCID=375676, PKN: 1, CRYPTO 1180.880 9.188.17 192.168.1.7 192.271.169.238 QUIC 1284 Initial, DCID=0684687787388.1616.08574167927b, SCID=78076b, PKN: 1, CRYPTO 1180.880 9.188.17 192.168.1.7 172.271.169.238 QUIC 1284 Initial, DCID=0684687787388.1616.0857416792b, SCID=37676, PKN: 1, CRYPTO 1180.168.17 192.171.085.238 QUIC 1284 Initial, DCID=06868878614814378808562, SCID=167766, PKN: 1, CRYPTO 1180.186.17 192.171.085.238 QUIC 1284 Initial, DCID=57667876786988888878841841378808562, SCID=167766, PKN: 1, CRYPTO 1180.186.17 192.171.085.238 QUIC 1284 Initial, DCID=57667876786988888878841841378808562, SCID=16776, PKN: 1, CRYPTO 1180.186.17 192.186.1.7 192.186.1.7 192.271.085.238 QUIC 1284 Initial, DCID=5766787678698888878841841378808562, SCID=16786, PKN: 1, CRYPTO 1180.186.17 192.186.1.7 192.186.1.7 192.286.186.1.7 192.286.186.1.7 192.286.186.187 192.286.186.187 192.286.186.187 192.286	2 192.166.1.7 142.256.181.174 QUIC 1294 Initial, DCID-berdi22da6e2ced76467269, PKN: 1, CRYPTO 1294 Initial, DCID-berdi22da6e2ced76787269, PKN: 1, CRYPTO 1294 Initial, DCID-berdi22da6e2ced76787687269, PKN: 1, CRYPTO 1294 Initial, DCID-berdi22da6e2ced767876869, SCID-2676769, PKN: 1, CRYPTO 1294 Initial, DCID-berdi27da6e2ced767269, PKN: 1, CRYPTO 1294 Initial, DCID-berdi27da6e2ced6e367269, SCID-26766769, PKN: 1, CRYPTO 1294 Initial, DCID-berdi27da6e2ced6e36728, SCID-26766769, PKN: 1, CRYPTO 1294 Initial, DCID-berdi27da6e2ced6e36728, SCID-26766769, PKN: 1, CRYPTO 1294 Initial, DCID-berdi27da6e2ced6e369, SCID-26769766, PKN: 1, CRYPTO 1294 Initial, DCID-berdi27da6e36ced6	\$64.625982	1294 Initial, DCID=be7d122da8e3eedf4eea873da55716, SCID=10a0a6, PKN: 1, CRYPTO 1294 Initial, DCID=0d8458d5d592a67387, SCID=87f29b, PKN: 1, CRYPTO 1294 -RTT, DCID=93c73554ece995a16248be3ed, SCID=4cc999 1.3 2577 Client Hello (SMI=incoming.telemetry.mozilla.org) 1.3 1596 Client Hello (SMI=incoming.telemetry.mozilla.org)
115 6.832253 192.168.1.7 142.259.382.214 QUIC 1294 Initial, DCID=08d8485602a67387, SCID=8729b, PNR: 1, CRYPTO 130 6.98586 192.168.1.7 142.259.382.123 TLSV1.3 2577 Clent Hello (SNI=1.vting.coming.telemetry.mozilla.org) 182.168.1.7 142.259.282.124 TLSV1.3 1950 Clent Hello (SNI=1.vting.coming.telemetry.mozilla.org) 183 6.98893 192.168.1.7 142.259.181.161 QUIC 1294 Initial, DCID=08d8486967e4672b, SCID=97676 PNR: 1, CRYPTO 183 6.98893 192.168.1.7 142.259.181.161 QUIC 1294 Initial, DCID=08d8486967e4672b, SCID=78676 PNR: 1, CRYPTO 183 6.98893 192.168.1.7 142.259.181.161 QUIC 1294 Initial, DCID=08d8486967e4672b, SCID=78676 PNR: 1, CRYPTO 183 6.98893 192.168.1.7 142.259.181.151 TLSV1.3 1952 Clent Hello (SNI=1.vting.com) 182.168.1.7 142.259.181.152 TLSV1.3 1952 Clent Hello (SNI=1.vting.com) 182.168.1.7 172.17.189.238 TLSV1.3 1952 Clent Hello (SNI=1.vting.com) 182.168.1.7 172.17.189.238 TLSV1.3 1952 Clent Hello (SNI=1.vting.com) 182.168.1.7 172.17.189.238 QUIC 183 6.189 Clent Hello (SNI=1.vting.com) 182.168.1.7 142.259.292.169 QUIC 184 6.189 Clent Hello (SNI=1.vting.com) 182.168.1.7 142.259.292.169 QUIC 184 6.189 Clent Hello (SNI=1.vting.com) 182.168.1.7 142.259.292.238 QUIC 184 6.189 Clent Hello (SNI=1.vting.com) 182.168.1.7 142.259.	3 192.166.1.7 142.269.202.214 QUIC 1294 Initial, DCID-064858654592a7387, SCID-67729b, PNN: 1, CRYPTO 1294 Initial, DCID-064858654592a7387, SCID-67729b, SCID-67829b (SID-67829b) (SID-67829	115 6.832253 192.168.1.7 142.256.262.214 QUIC 116 6.84157 192.168.1.7 34.126.268.123 QUIC 136 6.938996 192.168.1.7 34.126.268.123 QUIC 136 6.938993 192.168.1.7 142.256.262.214 TLSVI 155 7.083197 192.168.1.7 142.256.262.214 TLSVI 155 7.083197 192.168.1.7 142.256.262.187.3 QUIC 155 7.083197 192.168.1.7 142.256.262.187.3 QUIC 157 9.334199 192.168.1.7 142.256.262.46 QUIC 177 9.334199 192.168.1.7 142.256.262.46 QUIC 178 19.165466 192.168.1.7 142.256.262.46 TLSVI 151 16.559060 192.168.1.7 172.217.169.238 QUIC 151 16.559060 192.168.1.7 172.217.169.238 QUIC 151 16.559060 192.168.1.7 172.217.169.238 QUIC 151 16.59060 192.168.1.7 172.217.169.238 QUIC 151 16.59060 192.168.1.7 142.256.262.163 QUIC 151 16.59060 192.168.1.7 142.256.262.163 QUIC 151 11.164411 192.168.1.7 142.256.262.230 TLSVI 161 11.263230 192.168.1.7 142.256.262.230 TLSVI 161 11.26319 192.168.1.7 142.256.262.230 TLSVI 162 11.26319 192.168.1.7 142.256.262.230 TLSVI 163 11.263230 192.168.1.7 142.256.262.230 TLSVI 164 11.26319 192.168.1.7 142.256.262.230 TLSVI 165 11.26319 192.168.1.7 142.256.262.230 TLSVI 165 11.26319 192.168.1.7 142.256.262.230 TLSVI 165 11.26319 192.168.1.7 142.256.262.230 TLSVI 166 11.26319 192.168.1.7 142.256.262.230 TLSVI 167 11.26319 192.168.1.7 142.256.262.230 TLSVI 167 11.26319 192.168.1.7 142.256.262.230 TLSVI 168 11.26319 192.168.1.7 150.11111111111111111111111111111111111	2 1294 Initial, DCID=0d0458040502a67387, SCID=97729b, PNN: 1, CRYPTO 2 12940-8TT, DCID=0672554eee0985142648bebede, SCID=4cc909 41.3 2577 Client Hello (SNI=incoming telemetry.mozilla.org) 41.3 1950 Client Hello (SNI=i,ytimg.com)
136 6.84572 192.168.1.7 142.256.168.234 QUIC 1294 0-RTT, DCID=03c7355ce0806a16248beb3ed, SCID=4cc080 192.168.1.7 142.256.202.214 TLSV1.3 1950 Clent Hello (SNI=1,VIIIgo.com) 192.168.1.7 142.256.202.224 TLSV1.3 1950 Clent Hello (SNI=1,VIIIgo.com) 192.168.1.7 142.256.181.161 QUIC 1294 Initial, DCID=05cde275de276beb3ed.2657.461745d.p. RNI: 1, CRYPTO 1939 193.168.1.7 142.256.202.246 QUIC 1294 Initial, DCID=05cde275de276de283d836ce019ac, SCID=26076p, PKNI: 1, CRYPTO 1939 193.168.1.7 142.256.202.46 TLSV1.3 1950 Clent Hello (SNI=1,VIIIIgo.com) 192.168.1.7 142.256.202.46 TLSV1.3 1950 Clent Hello (SNI=1,VIIIIgo.com) 192.168.1.7 172.217.169.238 QUIC 1294 Initial, DCID=05cde27676be842776b, SCID=3cd6767b, PKNI: 1, CRYPTO 1931 10.65806 192.168.1.7 172.217.169.238 QUIC 1934 Initial, DCID=05cde27676998a688a784134137869a562, SCID=1678ee, PKNI: 1, CRYPTO 1931 10.65806 192.168.1.7 172.217.169.238 QUIC 1934 Initial, DCID=05cde767676998a688a784134137869a562, SCID=1678ee, PKNI: 1, CRYPTO 1931 10.65806 192.168.1.7 172.217.169.238 QUIC 1934 Initial, DCID=05cde767676998a688a784134137869a562, SCID=1678ee, PKNI: 1, CRYPTO 1931 10.65806 192.168.1.7 172.217.169.238 QUIC 1934 Initial, DCID=05cde767676998a688a784134137689a562, SCID=1678ee, PKNI: 1, CRYPTO 1931 10.65806 192.168.1.7 172.217.169.238 QUIC 1934 Initial, DCID=05cde767676998a688a784134137689a562, SCID=1678ee, PKNI: 1, CRYPTO 1931 11.26851 192.168.1.7 172.217.169.238 QUIC 1934 Initial, DCID=05cde767676998a688a784134137689a562, SCID=1678ee, PKNI: 1, CRYPTO 1931 11.26851 192.168.1.7 172.227.169.238 QUIC 1934 Initial, DCID=05cde76769984134137689a562, SCID=1678ee, PKNI: 1, CRYPTO 1931 11.26851 192.168.1.7 172.227.169.238 QUIC 1934 Initial, DCID=05cde767699841341376896852, SCID=1678ee, PKNI: 1, CRYPTO 1931 11.26851 192.168.1.7 172.227.169.238 QUIC 1934 Initial, DCID=05cde76769984134137698941341376896852, SCID=1678ee, PKNI: 1, CRYPTO 1931 11.26851 192.168.1.7 172.271.592.338 QUIC 1934 INITIAL 1932 Initial, DCID=05cde76769984134137698941341376896852, SCID=1678ee, PKNI: 1, CRYPTO 1931 11.26	2 192.168.1.7 142.259.180.234	118 6.841572 192.168.1.7 142.256.186.234 QUIC 306.983596 192.168.1.7 142.256.186.234 QUIC 306.983596 192.168.1.7 142.256.262.214 TLSVI 456.988093 192.168.1.7 142.256.187.3 QUIC 306.7.7 192.168.1.7 142.256.187.3 QUIC 306.7.7 192.168.1.7 142.256.187.3 QUIC 306.7 192.168.1.7 142.256.187.10 QUIC 306.7 192.168.1.7 142.256.181.101 QUIC 306.7 192.168.1.7 142.256.262.246 TLSVI 229.343122 192.168.1.7 142.256.262.266 TLSVI 229.343129 192.168.1.7 142.256.262.266 TLSVI 229.343129 192.168.1.7 142.256.262.266 QUIC 306.1.7 122.17.169.238 QUIC 306.1.7 122.17.169.238 QUIC 306.1.7 142.256.262.263 QUIC 306.1.7 142.256.262.27 150.101.101.101.101.101.101.101.101.101.	: 1294 9-RTT, DCID-03c73554cc995a16248beb3ed, SCID-4cc900 1.1.3 2577 Client Hello (SNI=incoming.telemetry.mozilla.org) 1.3 1950 Client Hello (SNI=i.ytimg.com)
138 6.989596 192.168.1.7 34.129.289.123 TLSV1.3 2577 Clent Hello (SNI=incoming.telemetry.mozilla.org) 192.168.1.7 142.256.202.124 TLSV1.3 1950 Client Hello (SNI=incoming.telemetry.mozilla.org) 192.168.1.7 142.256.202.124 TLSV1.3 1950 Client Hello (SNI=incoming.telemetry.mozilla.org) 192.168.1.7 142.256.181.161 QUIC 1294 Initial, DCID=0504947873863.001 192.168.1.7 142.256.181.161 TLSV1.3 1951 Client Hello (SNI=id.ytmp.com) 192.168.1.7 142.256.181.161 QUIC 1294 Initial, DCID=25049868878649184378698562, SCID=21678ee, PKN: 1, CRYPTO 192.168.1.7 142.256.202.236 TLSV1.3 1952 Client Hello (SNI=id.ytmp.com) 192.168.1 TLSV1.3 TLSV1.3	192.168.1.7 34.128.288.123 Tisvi.3 2577 Client Hello (SNI=incoming telemetry.moirllan.org) 3 192.168.1.7 142.258.282.214 Tisvi.3 1958 Client Hello (SNI=incoming telemetry.moirllan.org) 3 192.168.1.7 142.258.282.46 QUIC 1249 Initial, DCID=Scodes2C73Bobady, SCID=Sciff, PKN: 1, CRYPTO 1249 Initial, DCID=Scodes2C78Bobady, SCID=Sciff, PKN: 1, CRYPTO 1249 Initial, DCID=Scodes2C78Bobady	138 6.983596 192.168.1.7 34.128.268.123 Tisvi 136.5.980593 192.168.1.7 142.259.202.214 TISvi 155.7.088197 192.168.1.7 142.259.202.214 TISvi 155.7.088197 192.168.1.7 142.259.202.214 QUIC QUIC QUIC QUIC QUIC QUIC QUIC QUIC	/1.3 1950 Client Hello (SNI=i.ytimg.com)
45 6.9889893 192.168.1.7 142.259.292.214 TLSV1.3 1959 Client Hello (SNI:1,vtimg.com) 192.168.1.7 142.259.181.161 QUIC 1294 Initial, DCID=2064ee2758bb8d9d, SCID=2016ff, PNN: 1, CRYPTO 2017.181.17 142.259.181.161 QUIC 1294 Initial, DCID=2064ee2758bb8d9d, SCID=2016ff, PNN: 1, CRYPTO 2017.181.181 QUIC 1294 Initial, DCID=2064ee2758bb8d9d, SCID=2016ff, PNN: 1, CRYPTO 2017.181.181 QUIC 1294 Initial, DCID=2064ee2758bb8d9d, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee2758bb8d9d, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee2758bb8d9d, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee2758bb8d9d, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee2758bd8d9d, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee2758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee2758bd8d9d, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee2758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91de, SCID=2016ff, PNN: 1, CRYPTO 2017.181 QUIC 1294 Initial, DCID=2064ee27758bd8d9de91	3 192.168.1.7 142.259.292.214 TLSV1.3 1950 Client Hello (SNT=1.yting.com) 7 192.168.1.7 142.259.181.104 QUIC 1244 Initial, DCID=0604678738acteica85c7ddf9064, SCID=3475dd, PKN: 1, CRYPTO 1241 Initial, DCID=06047867676798a688878601841378998562, SCID=16046, PKN: 1, CRYPTO 1241 Initial, DCID=06047867676799886888878041841378998562, SCID=161786, PKN: 1, CRYPTO 1241 Initial, DCID=0604786767679988688888888888841841378998562, SCID=161786, PKN: 1, CRYPTO 1241 Initial, DCID=0604786786767679988688888888888888888888888	45 6.988993 192.168.1.7 142.256.202.214 TLSVI 557.088197 192.168.1.7 142.256.187.3 QUIC 1930 192.168.1.7 142.256.187.3 QUIC 1930 192.168.1.7 142.256.181.161 QUIC 1930 192.168.1.7 142.256.181.161 QUIC 1931 1.65480 192.168.1.7 142.256.181.161 QUIC 1931 1.65480 192.168.1.7 142.256.181.161 QUIC 1931 1.65480 192.168.1.7 142.256.181.161 TLSVI 1931 1931 1931 1931 1931 1931 1931 193	
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88 9.18831 192.168.1.7 142.259.202.46 QUIC 194 Initial, DCID=Sepasal8169ee9bedrefac4fe72h, SCID=7697db, PKN: 1, CRYPTO 919.18540 192.168.1.7 142.259.202.46 QUIC 194 Initial, DCID=Sepasal8169ee9bedrefac4fe72h, SCID=7697db, PKN: 1, CRYPTO 919.18540 192.168.1.7 142.259.202.46 TLSV1.3 1951 Citent Hello (SNI=14, ytimg, com)	1 192.168.1.7 142.259.202.46 QUT 1294 Initial, DCTD=2693a181059e90bdcf9sc4f072b, SCTD=7697db, PKN: 1, CRYPTO 192.168.1.7 142.259.202.46 QUT 1294 Initial, DCTD=5676b5b51967dbcc0893d3sc6013pac, SCID=469df6, PKN: 1, CRYPTO 193.168.1.7 142.259.202.239 QUTC 1294 Initial, DCTD=5676707098a688a76bac.203 CDTD=178ee, PKN: 1, CRYPTO 194.259.202.239 QUTC 1294 Initial, DCTD=5676707098a688a76bac.203 CDTD=178ee, PKN: 1, CRYPTO 194.259.202.239 QUTC 1294 Initial, DCTD=5676707098a688a76bac.203 CDTD=178ee, PKN: 1, CRYPTO 194.259.202.239 QUTC 1294 Initial, DCTD=5676707098a688a76bac.203 CDTD=178ee, PKN: 1, CRYPTO 194.259.202.239 QUTC 1294 Initial, DCTD=5676707098a688a76bac.203 CDTD=178ee, PKN: 1, CRYPTO 194.259.202.239 QUTC 1294 Initial, DCTD=5676707098a688a76bac.203 CDTD=178ee, PKN: 1, CRYPTO 194.259.202.239 TLSVI.3 1961 CLIent Hello (SNI=static.doubleclick.net) 192.168.1.7 142.259.202.239 TLSVI.3 1961 CLIent Hello (SNI=static.doubleclick.net) 192.168.1.7 142.259.202.239 TLSVI.3 1961 CLIEnt Hello (SNI=static.doubleclick.net) 192.168.1.7 142.259.202.239 TLSVI.3 1961 CLIEnt Hello (SNI=static.doubleclick.net) 192.168.1.7 St. 192.168.1.7 St	88 9.183831 192.168.1.7 142.256.202.46 QUIC 91 9.185496 192.168.1.7 142.256.202.46 QUIC 77 9.334199 192.168.1.7 142.256.202.46 QUIC 229.343122 192.168.1.7 142.256.202.45 TLSV1 229.34312.9 192.168.1.7 172.217.169.238 QUIC 151.856967 192.168.1.7 172.217.169.238 QUIC 151.856969 192.168.1.7 172.217.169.238 TLSV1 79 11.657623 192.168.1.7 142.256.262.259 QUIC 01.126551 192.168.1.7 142.256.262.259 QUIC 161.126411 192.168.1.7 142.256.262.259 QUIC 161.126411 192.168.1.7 142.256.262.258 QUIC 161.126411 192.168.1.7 142.256.262.153 QUIC 161.126411 192.168.1.7 142.256.262.258 QUIC 161.126411 192.256.262.258 QUIC 161.86411 192.256.262.258 QUIC 162.256.262.258 QUIC 162.256.258 QUIC 162.256	
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83 18.765647 192.108.1.7 172.217.109.238 QUIC 19.98 11.51	192.168.1.7 172.217.169.238 QUIC 1294 Initial, DCID=756e76707086888a78841841378898a562, SCID=7478ee, PKN: 1, CRYPTO 1294.178	83 18.765647 192.168.1.7 172.217.169.238 QUIC 15.0856969 192.168.1.7 172.217.169.238 TLSV1 15.0856969 192.168.1.7 142.256.202.239 QUIC 091.1.28551 192.168.1.7 142.256.202.239 QUIC 091.1.28551 192.168.1.7 142.256.202.163 QUIC 191.1.64411 192.168.1.7 142.256.202.163 QUIC 191.1.263239 192.168.1.7 142.256.202.239 TLSV1 191.203239 192.168.1.7 142.256.202.239 TLSV1 191.203239 192.168.1.7 142.256.202.239 TLSV1 191.203239 192.168.1.7 142.256.202.239 TLSV1 191.203239 System on wire (15864 bits), 1983 bytes captured (15865 bits), 1983 bytes captured (158	
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90 11.128551 192.168.1.7 142.259.202.163 0UC 12940-RTT, DCID=7740697610985427706, SCID=16765f 192.168.1.7 142.259.181.174 TLSV1.2 231 Client Hello (SNI=static.doubleclick.net) 19 11.203239 192.168.1.7 142.259.202.230 TLSV1.3 1901 Client Hello (SNI=static.doubleclick.net) 20 11.203239 192.168.1.7 142.259.202.230 TLSV1.3 1901 Client Hello (SNI=static.doubleclick.net) 21 11.203239 192.168.1.7 142.259.202.230 TLSV1.3 1901 Client Hello (SNI=static.doubleclick.net) 22 12 12 12 12 12 12 12 12 12 12 12 12 1	192.168.1.7 142.259.202.163 QUIC 1294 0-RTT, DCID=7f460F16085427906, SCID=19f69F 192.168.1.7 142.259.202.230 TLSV1.3 1961 Client Hello (SNI=static.doubleclick.net) 30 192.168.1.7 142.259.202.230 TLSV1.3 1961 Client Hello (SNI=static.doubleclick.net) 30 192.168.1.7 142.259.202.230 TLSV1.3 1961 Client Hello (SNI=static.doubleclick.net) 31 bytes on wire (15864 bits), 1983 bytes captured (15864 bits) on interface \text{Nerice} County Q	90 11.128551 192.168.1.7 142.250.202.163 QUIC 181.16441 192.168.1.7 142.250.181.17 TLSV1 19 11.203230 192.168.1.7 142.250.202.230 TLSV1 19 11.203230 192.168.1.7 192.250.202.230 TLSV1 192.250.250 192.250.250 192.250.250 192.250.250 192.250.250 192.25	
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## 19 11.203239 192.168.1.7 142.250.202.230 TLSv1.3 1961 Client Hello (SNI=static.doubleclick.net) ### 20 15 15 15 15 15 15 15 15 15 15 15 15 15	38 bytes on wire (15864 bits), 1983 bytes captured (15864 bits) on interface \Device\NPF_{\begin{subarray}{c} 9 of the continuous parts of the	19 11.203230 192.168.1.7 142.250.202.230 TLSv1 e 30: 1903 bytes on wire (15004 bits), 1903 bytes captured (1500 rnet II, Src cipally effect 12:ec.ab (fc.as.14112:ec.ab), Dot: 21 rnet II, Src cipally effect 12:ec.ab (fc.as.14112:ec.ab), Dot: 21 rnet Protocol salve de fro: 190.168.1, pp. 11.51:101.141.91 saission Control Protocol, Src Port: 54024, Dst Port: 443, Seq: Syort Layer Security Sv1.3 Record Layer: Handshake Protocol: Client Hello Content Type: Handshake (2) Version: TLS 1.0 (0x0301)	
e 38: 1983 bytes on wire (15864 bits), 1983 bytes captured (15864 bits) on interface \Device\NPF_{\{0}} \cdots \text{000} \text{30} \tex	## Styles on wire (15864 bits), 1983 bytes captured (15964 bits) on interface \Device\NPF_{\{\frac{1}{2}\}}	e 30: 1983 bytes on wire (15864 bits), 1983 bytes captured (1586 rnet II, Src: GigaByteTech_12:ec:ab (fc:aa:14:12:ec:ab), Dst: zf: rnet Protocol Version 4, Src: 192.168.1.7, Dst: 151.101.141.91 smission Control Protocol, Src Port: 54024, Dst Port: 443, Seq: sport Luyer Security Mandshake Protocol: Client Hello Centent Type: Handshake (22) Version: ILS 1.0 (0x6301)	
rnet II, Src: GigaByteTech.12:ec:ab (fc:aa:14:12:ec:ab), Dst: zte_ae:6e:86 (30:1f:A8:ae:6e:86) rnet Protocol Version 4, Src: 192:168.17, Dst: 151:101:141.91 smmission Control Protocol, Src Port: 54024, Dst Port: 443, Seq: 1, Ack: 1, Len: 1929 802 84 85 03 88 10 84 84 84 83 32 cb 37 48 55 18 [H.] #<+ HP 803 84 60 22 60 76 89 80 16 83 61 18 18 18 1	inci signalytered, 12:ec:ab [fc:aa:14:12:ec:ab)	rnet II, Src. GigaByteTech_12:ec:ab (fc:aa:14:12:ec:ab), Dst. zf rnet Protocol Version 4, Src. 192.168.1.7, Dst: 151.101.141.91 smission Control Protocol, Src Port: 54024, Dst Port: 443, Seq: sport Layer Security Sv1.3 Record Layer: Handshake Protocol: Client Hello Content Type: Mandshake (22) Version: TLS 1.0 (0x0301) Length: 1924	/1.3 1961 Client Hello (SNI=Static.doubleclick.net)
Content Type: Handshake (22) October 1796: Handshake (23) October 1796: Handshake (24) October 1796: Handshake (25) October 1796: Handshake (26) October 1796: Handshake (27) Octobe	ype: Handshake (22) 10870 8d 8e 7 c 3e 7 s 0 15 b3 15 d3 4f 59 8a 3b 7c 7	Content Type: Handshake (22) Version: TLS 1.0 (0x0301) Length: 1924	zte_ae:6e:86 (30:1f:48:ae:6e:86) 00:0 00 00 b7 c2 40 00 80 06 00 00 c0 a8 01 07 97 65 00 00:0 00:0 00:0 00:0 00:0 00:0 00:
Version: ÎlS 1.0 (0x0301)	Tis 1.6 (0x0301)	Version: TLS 1.0 (0x0301) Length: 1924	0050 fb 5f dc 36 e1 7d 72 9c 63 ab ae 37 a0 dc 10 c3 6⋅}r⋅ c⋅⋅7⋅⋅⋅⋅
Length: 1924 Handshake Protocol: Client Hello 8898 or 38 e0 20 cc 38 oc 30 cc 38 oc	924 989	Length: 1924	
Handshake Protocol: Client Hello 6090 Cc AB C0 2C C0 30 C0 Ba C0 90 C0 13 C0 14 80 9 Cc 0	Protocol: Client Hello 8989		
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00:0 6e 67 73 2d 61 74 74 61 63 68 6d 65 6e 74 73 2e ngs-atta chments. 00:0 63 64 6e 26 d 67 74 89 c 6c 67 24 69 c danozi lla.net 00:0 17 00:00 ff 01 00 01 00 00 60 01 00 00 60 11 ec 00:00 01 00 01 00 01 00 00 00 01 00 00 00 0	80c0 6e 67 73 2d 61 74 74 61 63 68 dd 65 6e 74 73 2e ngs-atta chments. 80d0 8 36 46 62 e6 dd 67 46 96 6c 61 2e 6e 65 74 80 ac n.mozi lla.net. 80e0 17 90 90 ff 01 90 81 90 90 90 90 90 90 90 90 90 90 90 90 90		
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08-06 17 08 08 if fol 08 01 08 08 08 01 08 08 01 1 ec	80e0 17 00 00 ff 01 00 11 00 10 00 00 00 10 00 00 11 00 1 00 00		
0070 00 1d 00 17 00 18 00 19 01 00 01 00 00 00 00 02 \\ 0100 01 00 00 23 00 00 00 10 00 00 00 00 00 00 28 32 08 \\ 1100 08 74 74 70 27 31 22 31 00 05 00 05 01 00 00 00 00 \\ 1120 00 00 22 00 08 00 08 40 03 05 03 06 03 02 03 00 \\ 1120 00 00 22 00 08 00 08 40 03 05 03 06 03 02 03 00 \\ 1120 00 00 00 23 05 27 05 2 01 12 00 04 00 04 07 09 \\ 1120 00 00 00 03 30 52 00 00 00 03 05 27 05 2 01 12 00 04 05 04 07 09 \\ 1120 00 00 00 03 03 05 27 05 2 01 12 00 04 00 04 07 09 \\ 1120 00 00 00 03 03 05 27 05 2 01 12 00 04 05 04 07 09 \\ 1120 00 00 00 03 05 27 05 2 07 05 2 01 12 00 04 05 00 00 00 03 05 05 05 05 05 05 05 05 05 05 05 05 05	00f0 00 1d 00 17 00 18 00 19 01 00 11 01 00 00 00 02		
0100 01 00 02 300 00 00 10 00 0e 00 0 02 68 32 08	8109 01 00 00 23 00 00 01 00 00 00 00 00 02 68 32 08		
0120 00 00 22 00 00 03 00 00 10 05 00 00 02 00 00	0120 08 09 22 09 08 09 08 04 03 05 03 06 03 02 03 09"		
0130 12 00 00 00 33 05 2f 05 2d 11 ec 04 c0 6d f2 09 ···3·/ ····m·	0130 12 00 00 00 33 05 2f 05 2d 11 ec 04 c0 6d f2 09 · · · · 3 / · · · · m · · 6140 29 37 35 83 1b 66 f4 36 a0 a2 2a 08 02 32 cf 8e ·)75 · f.6 · · · · 2 · · · · · · 2 · · · · · · ·		
	01.40 29 37 35 a3 1b 66 f4 36 a0 a2 2a 08 02 32 cf 6e		0120 00 00 22 00 0a 00 08 04 03 05 03 06 03 02 03 00 ··"·····
	0150 02 72 f5 66 40 7a f7 7f 1d 93 0e bc 4c 9a 6e aa ír f@zL.n.		
	0160 c7 4a 46 99 7c 06 cd 6e fc 07 6c fa 28 02 89 32 JF n · l · (· · 2		

- - -

Q3. Identify the QUIC packet that contains the TLS ClientHello.

The TLS ClientHello is embedded inside the Initial QUIC packet:

- **Packet:** 58
- Path: `QUIC → CRYPTO → TLSv1.3 Handshake → Client Hello`



- - -

Q4. Which QUIC version is used in your trace?

From the QUIC header in Packet 58: **Version:** 1 (0x00000001) \rightarrow IETF QUIC v1 (used for HTTP/3)

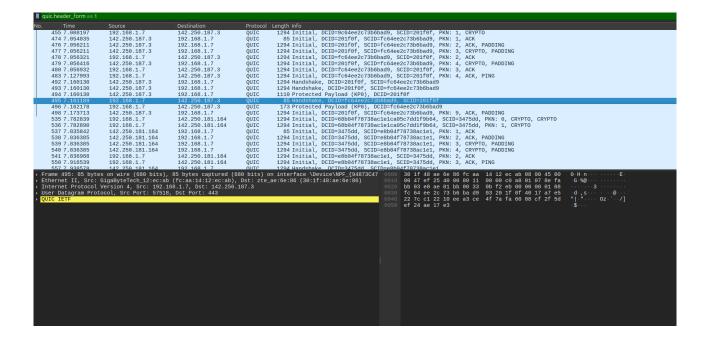
```
frame.number == 58
No.
                                                   Destination
                                                                            Protocol Length Info
        Time
                          Source
       58 4.625982
                                                                                       1294 Initial, DCID=be7d122da8
                           192.168.1.7
                                                    142.250.181.174
  User Datagram Protocol, Src Port: 55455, Dst Port: 443
  QUIC IETF
   > QUIC Connection information
     [Packet Length: 993]
1... = Header Form: Long Header (1)
     .1..... = Fixed Bit: True
..00 .... = Packet Type: Initial (0)
[.... 00... = Reserved: 0]
     [.... ..00 = Packet Number Length: 1 bytes (0)]
    Destination Connection ID Length: 15
Destination Connection ID: be7d122da8e3ec8f4eea073da55716
     Source Connection ID Length: 3
     Source Connection ID: 10a0a6
     Token Length: 0
    Length: 965
[Packet Number: 1]
     Payload [truncated]: 9c56ac77e5e66041488b1bf697a236bc0c2cb0f2695e170282ef3f622238f49f831bd19faf521
       Frame Type: CRYPTO (0x00000000000000000)
       Offset: 114
Length: 943
       Crypto Data
       [3 Reassembled QUIC CRYPTO Data Fragments (1886 bytes): #57(114), #58(943), #57(829)]
       TLSv1.3 Record Layer: Handshake Protocol: Client Hello
```

- - -

Q5. Locate the packet where 0-RTT or 1-RTT keys are first used.

The first $^**QUIC\ 1-RTT\ Protected^**$ packet marks the start of encrypted communication.

This packet indicates the use of 1-RTT keys for secure application data transfer.



Q6. Find the first packet that carries application data (HTTP/3). How does this differ from HTTP over TCP?

- The first **1-RTT Protected packet with Stream Frame** carries the HTTP/3 application data.

				l Length Info
57 4.625837	192.168.1.7	142.250.181.174	QUIC	1294 Initial, DCID=be7d122da8e3ec8f4eea073da55716, SCID=10a0a6, PKN: 0, CRYPTO, CRYPTO
58 4.625982	192.168.1.7	142.250.181.174	QUIC	1294 Initial, DCID=be7d122da8e3ec8f4eea073da55716, SCID=10a0a6, PKN: 1, CRYPTO
59 4.670676	142.250.181.174	192.168.1.7	QUIC	85 Initial, DCID=10a0a6, SCID=fe7d122da8e3ec8f, PKN: 1, ACK
60 4.671677	142.250.181.174	192.168.1.7	QUIC	1294 Initial, DCID=10a0a6, SCID=fe7d122da8e3ec8f, PKN: 2, ACK, PADDING
61 4.671677	142.250.181.174	192.168.1.7	QUIC	1294 Initial, DCID=10a0a6, SCID=fe7d122da8e3ec8f, PKN: 3, CRYPTO, PADDING
62 4.671677	142.250.181.174	192.168.1.7	QUIC	1294 Initial, DCID=10a0a6, SCID=fe7d122da8e3ec8f, PKN: 4, CRYPTO, PADDING
3 4.672544	192.168.1.7	142.250.181.174	QUIC	1294 Initial, DCID=fe7d122da8e3ec8f, SCID=10a0a6, PKN: 2, ACK
2 4.746530	192.168.1.7	142.250.181.174	QUIC	1294 Initial, DCID=fe7d122da8e3ec8f, SCID=10a0a6, PKN: 3, ACK, PING
3 4.775428	142.250.181.174	192.168.1.7	QUIC	1294 Handshake, DCID=10a0a6, SCID=fe7d122da8e3ec8f
4 4.775626	192.168.1.7	142.250.181.174	QUIC	84 Handshake, DCID=fe7d122da8e3ec8f, SCID=10a0a6
5 4.775649	142.250.181.174	192.168.1.7	QUIC	1294 Handshake, DCID=10a0a6, SCID=fe7d122da8e3ec8f
6 4.775649	142.250.181.174	192.168.1.7	QUIC	1294 Handshake, DCID=10a0a6, SCID=fe7d122da8e3ec8f
7 4.775649	142.250.181.174	192.168.1.7	QUIC	709 Protected Payload (KP0), DCID=10a0a6
8 4.776382	192.168.1.7	142.250.181.174	QUIC	85 Handshake, DCID=fe7d122da8e3ec8f, SCID=10a0a6
9 4.777291	192.168.1.7	142.250.181.174	QUIC	173 Protected Payload (KP0), DCID=fe7d122da8e3ec8f
9 4.777312	192.168.1.7	142.250.181.174	QUIC	113 Protected Payload (KP0), DCID=fe7d122da8e3ec8f
1 4.777960	192.168.1.7	142.250.181.174	QUIC	1294 Protected Payload (KP0), DCID=fe7d122da8e3ec8f
2 4.778002	192.168.1.7	142.250.181.174	QUIC	549 Protected Payload (KP0), DCID=fe7d122da8e3ec8f
3 4.793367	142.250.181.174	192.168.1.7	QUIC	1294 Initial, DCID=10a0a6, SCID=fe7d122da8e3ec8f, PKN: 10, ACK, PADDING
5 4.821120	142.250.181.174	192.168.1.7	QUIC	659 Protected Payload (KP0), DCID=10a0a6
6 4.821120	142.250.181.174	192.168.1.7	QUIC	166 Protected Payload (KPO), DCID=10a0a6
7 4.821120	142.250.181.174	192.168.1.7	QUIC	68 Protected Payload (KPO), DCID=10a0a6
R 4 821934	192 168 1 7	142 250 181 174	OUTC	73 Protected Payload (KPA) DCID=fe7d122daRe3ecRf
				ts) on interface \Device\NPF_[94873 0000 30 1f 48 ae 6e 86 fc aa 14 12 ec ab 08 00 45 00 0 H n · · · · · · · · · · · · · · · · · ·
		o (FC:aa:14:12:eC:ab), 168.1.7, Dst: 142.250		
	ocol, Src Port: 5545		.101.1/4	0020 b5 ae d8 9f 01 bb 02 03 08 6d 7b fe 7d 12 2d a8 ······ m{·}·}·-· 0030 e3 ec 8f e3 28 25 15 b1 fc 92 a5 90 56 35 0d ab ····(%·····V5··
Datagram Frot IETF	ocot, sic Poit. 5545	s, DSL FOIL. 443		0040 71 a2 98 93 29 b2 30 5 22 b9 77 d3 88 78 66 d6 q···#" "w·xf-
C Connection	information			0050 cf 1b 08 4f 2d 30 f3 24 9f b1 4f e6 3b c3 e8 9c · · · · 0 · · \$ · · · · · · · · · · · ·
cket Length:				
	er DCID=fe7d122da8e3e	a0.6		9060 1f 26 52 3c dc d2 97 6c fe c2 ff af 31 98 71 70 &R<···l ····1 qp 9070 50 9c d3 3a 33 9e 32 30 c9 38 5b 7c ef 7d d9 99
			74-200022	20ab230522b977d3887866d6cf1b084f2d30 0080 74 ca 19 28 d4 f9 9e ce e1 f1 e1 0f 72 24 c0 84 t (
allillig raytor	tu [truncateu], eszez	313b11 C32a33030330uab	/1a2000320	1980/2595/2597/0586780000011000412059
				09a0 90 1f at 52 cf d2 c2 b4 1d 52 a6 fd 19 aa 2a 58 R R X
				0000 f8 61 e8 6f 9e cd 5e 2c 51 2a fd c6 01 f2 86 41 .a.o.o.o, 0* .A
				00c0 e5 d0 f5 56 ef 0f 22 58 c9 53 a2 84 74 37 a2 3fV. "X S. t7?
				0000 8c 42 55 1e bc dc 5c 2a d0 03 7f 41 6b 8e 7c ae - 8U - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
				09e0 39 9c 74 60 d8 b7 c1 86 68 0a 4d 4e 66 9f 08 f0 9 t h MNT
				00f0 7e 66 05 30 9d ac 2f 9e 39 2d 55 3a 70 1e df 93 -f.0./9-U.p.
				9139 94 d8 90 59 8a f2 42 e1 b3 98 98 d9 c6 0c dd bc
				0150 42 06 43 5f 4c a9 49 53 6c 22 1b d4 61 c7 47 91 B⋅C_L⋅IS l"⋅⋅a⋅G⋅ 0160 60 55 4b 48 59 e5 f5 ef 0e 18 40 6a 58 91 73 85 `UKHY⋅⋅⋅⋅-@jX⋅s⋅
				0170 bf f4 be 74 6c fd 32 a8 29 ab ae 8f 29 4d e8 8e ···tl·2·))M··

- **Differences from HTTP over TCP:**
- QUIC runs on **UDP** instead of TCP.
- TLS 1.3 encryption is built directly into QUIC.
- Multiplexing streams avoids head-of-line blocking.
- Faster connection setup is possible (0-RTT / 1-RTT).

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