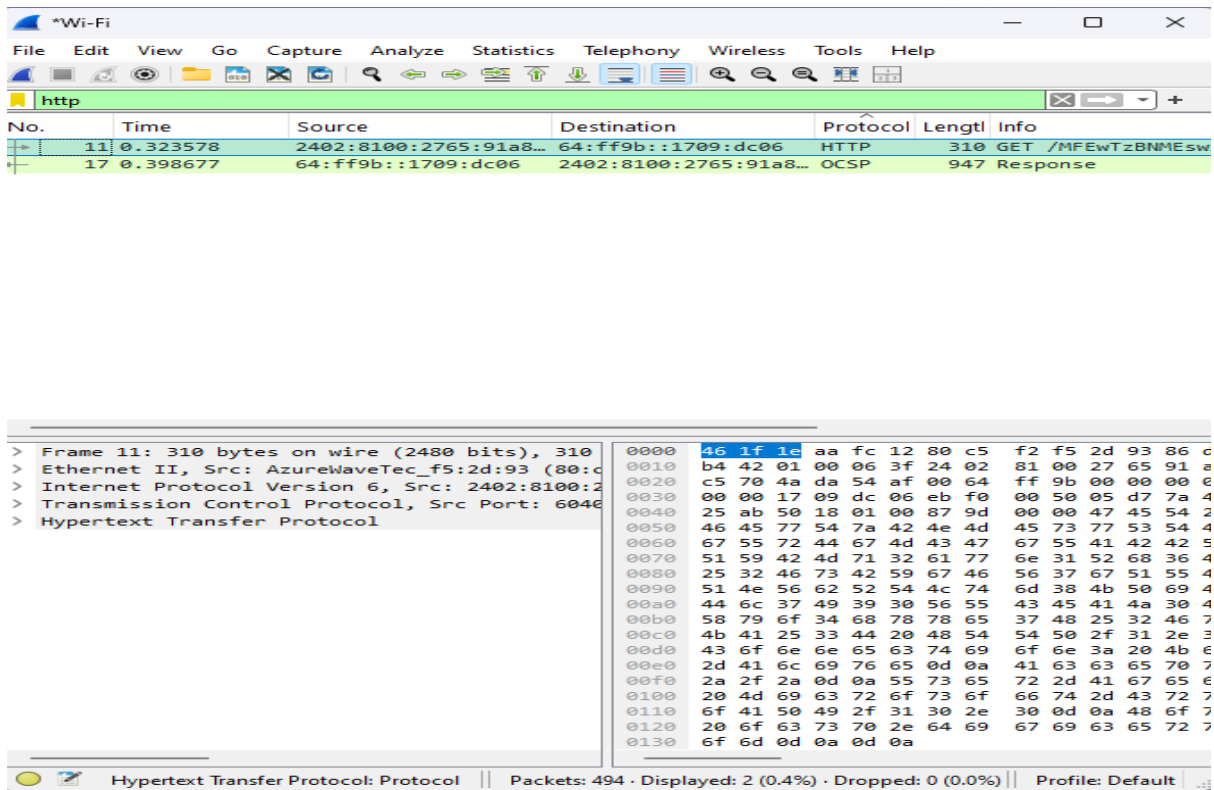


Wireshark packet analysis :

1.http traffic :

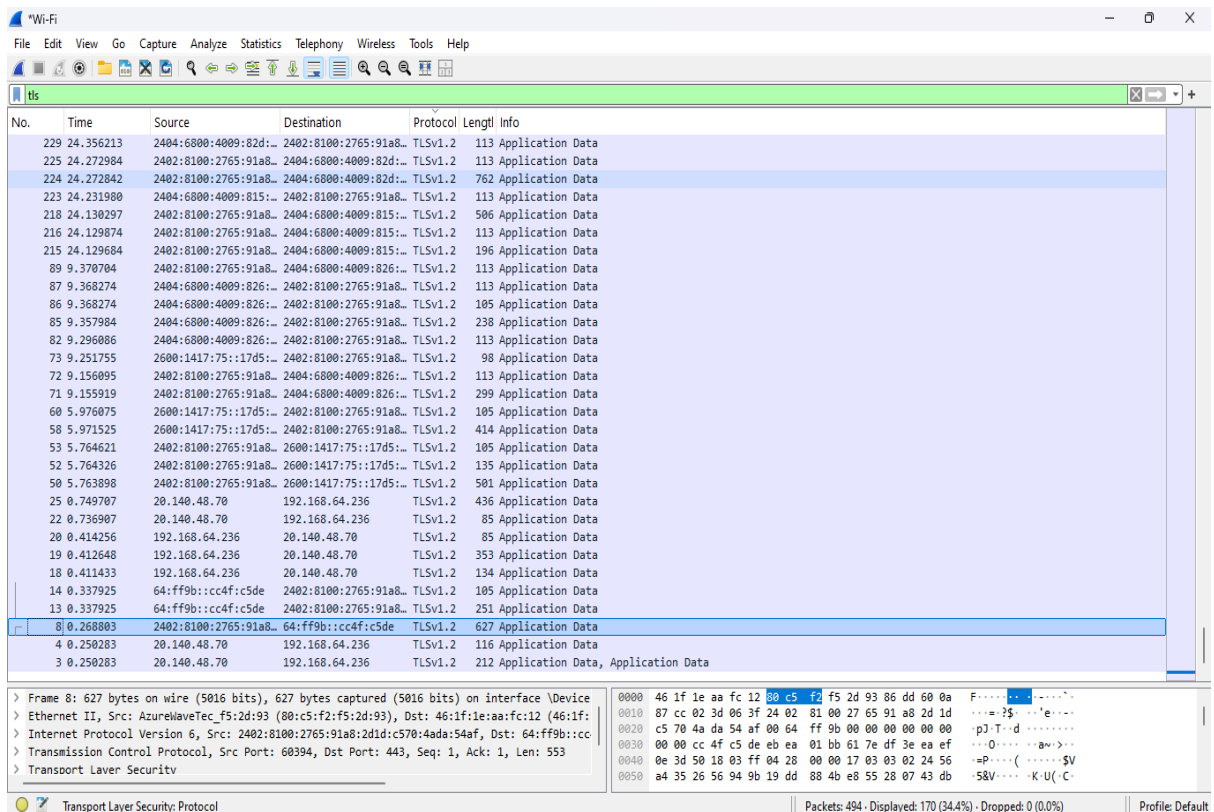


Wireshark packet capture showing HTTP traffic. The packet list shows a GET request (No. 11) and an OCSP response (No. 17). The packet details pane shows the structure of the HTTP request, including Ethernet II, Internet Protocol Version 6, Transmission Control Protocol, and Hypertext Transfer Protocol. The packet bytes pane shows the raw data in hexadecimal and ASCII.

Frame 11: 310 bytes on wire (2480 bits), 310 bytes captured (2480 bits) on interface \Device\NPF{...} Ethernet II, Src: AzureWaveTec_f5:2d:93 (80:c0:ee:01:b4:42), Dst: 64:ff9b::1709:dc06 (64:ff9b::1709:dc06) Internet Protocol Version 6, Src: 2402:8100::2, Dst: 2402:8100::1709:dc06 Transmission Control Protocol, Src Port: 6046, Dst Port: 80 Hypertext Transfer Protocol

Hypertext Transfer Protocol: Protocol | Packets: 494 · Displayed: 2 (0.4%) · Dropped: 0 (0.0%) | Profile: Default

2.https traffic :



Wireshark packet capture showing HTTPS traffic. The packet list shows a TLS handshake (No. 229) and a TLS record (No. 224). The packet details pane shows the structure of the TLS record, including Ethernet II, Internet Protocol Version 6, Transmission Control Protocol, and Transport Layer Security. The packet bytes pane shows the raw data in hexadecimal and ASCII.

Frame 8: 627 bytes on wire (5016 bits), 627 bytes captured (5016 bits) on interface \Device\NPF{...} Ethernet II, Src: AzureWaveTec_f5:2d:93 (80:c0:ee:01:b4:42), Dst: 64:ff9b::1709:dc06 (64:ff9b::1709:dc06) Internet Protocol Version 6, Src: 2402:8100::2, Dst: 2402:8100::1709:dc06 Transmission Control Protocol, Src Port: 60394, Dst Port: 443, Seq: 1, Ack: 1, Len: 553 Transport Layer Security

Transport Layer Security: Protocol | Packets: 494 · Displayed: 170 (34.4%) · Dropped: 0 (0.0%) | Profile: Default

3.IP Address:

Wireshark packet capture showing HTTP traffic. The packet list shows a GET request for /ts. The packet details pane shows the structure of the HTTP request, including the IP header, Ethernet II header, Internet Protocol header, and Hypertext Transfer Protocol header. The packet bytes pane shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
72	9.156095	2402:8100:2765:91a8...	2404:6800:4009:826...	TLSv1.2	113	Application Data
71	9.155919	2402:8100:2765:91a8...	2404:6800:4009:826...	TLSv1.2	299	Application Data
60	5.976075	2600:1417:75::17d5...	2402:8100:2765:91a8...	TLSv1.2	105	Application Data
58	5.971525	2600:1417:75::17d5...	2402:8100:2765:91a8...	TLSv1.2	414	Application Data
53	5.764621	2402:8100:2765:91a8...	2600:1417:75::17d5...	TLSv1.2	105	Application Data
52	5.764326	2402:8100:2765:91a8...	2600:1417:75::17d5...	TLSv1.2	135	Application Data
50	5.763898	2402:8100:2765:91a8...	2600:1417:75::17d5...	TLSv1.2	501	Application Data
25	0.749707	20.140.48.70	192.168.64.236	TLSv1.2	436	Application Data
22	0.736907	20.140.48.70	192.168.64.236	TLSv1.2	85	Application Data
20	0.414256	192.168.64.236	20.140.48.70	TLSv1.2	85	Application Data
19	0.412648	192.168.64.236	20.140.48.70	TLSv1.2	353	Application Data
18	0.411433	192.168.64.236	20.140.48.70	TLSv1.2	134	Application Data
14	0.337925	64:ff9b::cc4f:c5de	2402:8100:2765:91a8...	TLSv1.2	105	Application Data
13	0.337925	64:ff9b::cc4f:c5de	2402:8100:2765:91a8...	TLSv1.2	251	Application Data
8	0.268803	2402:8100:2765:91a8...	64:ff9b::cc4f:c5de	TLSv1.2	627	Application Data
4	0.250283	20.140.48.70	192.168.64.236	TLSv1.2	116	Application Data
3	0.250283	20.140.48.70	192.168.64.236	TLSv1.2	212	Application Data

Frame 8: 627 bytes on wire (5016 bits), 627 bytes captured (5016 bits) on interface \Device NPF{...} Ethernet II, Src: AzureWaveTec_f5:2d:93 (08:c5:f2:f5:2d:93), Dst: 46:1f:1e:aa:fc:12 (46:1f:1e:aa:fc:12) Internet Protocol Version 6, Src: 2402:8100:2765:91a8:2d1d:c570:4ada:54af, Dst: 64:ff9b::cc4f:c5de

0110 = Version: 6
.... 0000 0000 = Traffic Class: 0x00 (DSCP: CS0, ECN: Not-ECT)
.... 1010 1000 0111 1100 1100 = Flow Label: 0xa07cc
Payload Length: 573
Next Header: TCP (6)
Hop Limit: 63
Source Address: 2402:8100:2765:91a8:2d1d:c570:4ada:54af
Destination Address: 64:ff9b::cc4f:c5de
[Embedded IPv4 Prefix: 0064ff9b0000000000000000]
[Destination Embedded IPv4: 204.79.197.222]
[Embedded IPv4: 204.79.197.222]
[Stream index: 1]
Transmission Control Protocol, Src Port: 60394, Dst Port: 443, Seq: 1, Ack: 1, Len: 553
Transport Layer Security
TLSv1.2 Record Layer: Application Data Protocol: Hypertext Transfer Protocol

Payload is encrypted application data (ts.app_data), 548 bytes

Packets: 494 - Displayed: 170 (34.4%) - Dropped: 0 (0.0%) Profile: Default

4.Ping Output :

```
Microsoft Windows [Version 10.0.22621.4317]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>ping google.com

Pinging google.com [2404:6800:4009:831::200e] with 32 bytes of data:
Reply from 2404:6800:4009:831::200e: time=53ms
Reply from 2404:6800:4009:831::200e: time=80ms
Reply from 2404:6800:4009:831::200e: time=68ms
Reply from 2404:6800:4009:831::200e: time=95ms

Ping statistics for 2404:6800:4009:831::200e:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 53ms, Maximum = 95ms, Average = 74ms

C:\Users\HP>
```

5.Traceroute Output :

```
Command Prompt
Microsoft Windows [Version 10.0.22621.4317]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>tracert google.com

Tracing route to google.com [2404:6800:4009:831::200e]
over a maximum of 30 hops:

  1  10 ms  8 ms  8 ms  2402:8100:2765:91a8::da
  2  *      *      *      Request timed out.
  3  116 ms  29 ms  43 ms  2402:8100:17:66::1
  4  132 ms  37 ms  51 ms  fd00:0:16:16::62
  5  167 ms  49 ms  57 ms  fd00:0:17:17::61
  6  116 ms  66 ms  44 ms  2400:c700:0:24::fe
  7  143 ms  75 ms  52 ms  2402:8100:4000::79f
  8  96 ms  68 ms  *      2402:8100:4000::5fc
  9  64 ms  56 ms  68 ms  2402:8100:4000::7e5
 10  95 ms  86 ms  65 ms  2402:8100:4000::612
 11  *      60 ms  *      2402:8100:4000::7ba
 12  62 ms  80 ms  74 ms  2001:4860:1:1::ea8
 13  115 ms  58 ms  63 ms  2404:6800:811a::1
 14  133 ms  56 ms  51 ms  2001:4860:0:1::6d6
 15  121 ms  54 ms  60 ms  2001:4860:0:1::5c05
 16  138 ms  67 ms  67 ms  bom12s21-in-x0e.1e100.net [2404:6800:4009:831::200e]

Trace complete.

C:\Users\HP>
```