CSE421: Computer Networks
Lab 2
Sec: 6

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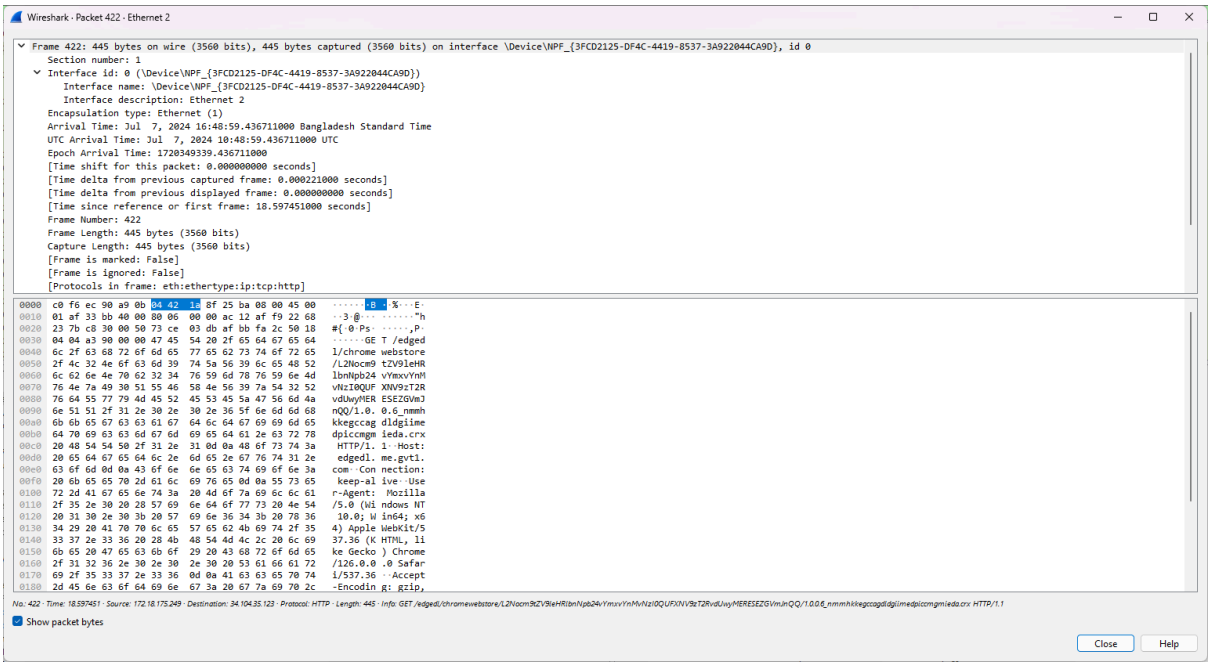
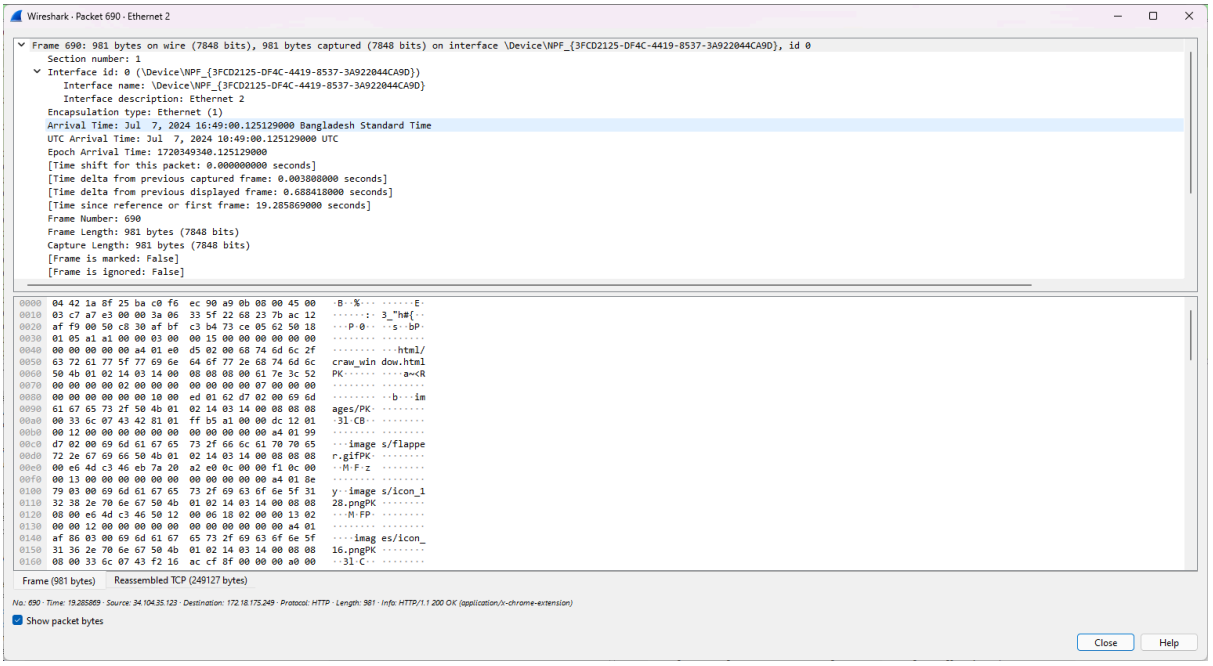
Screenshots from wireshark are given below:

Network Frame Infos:

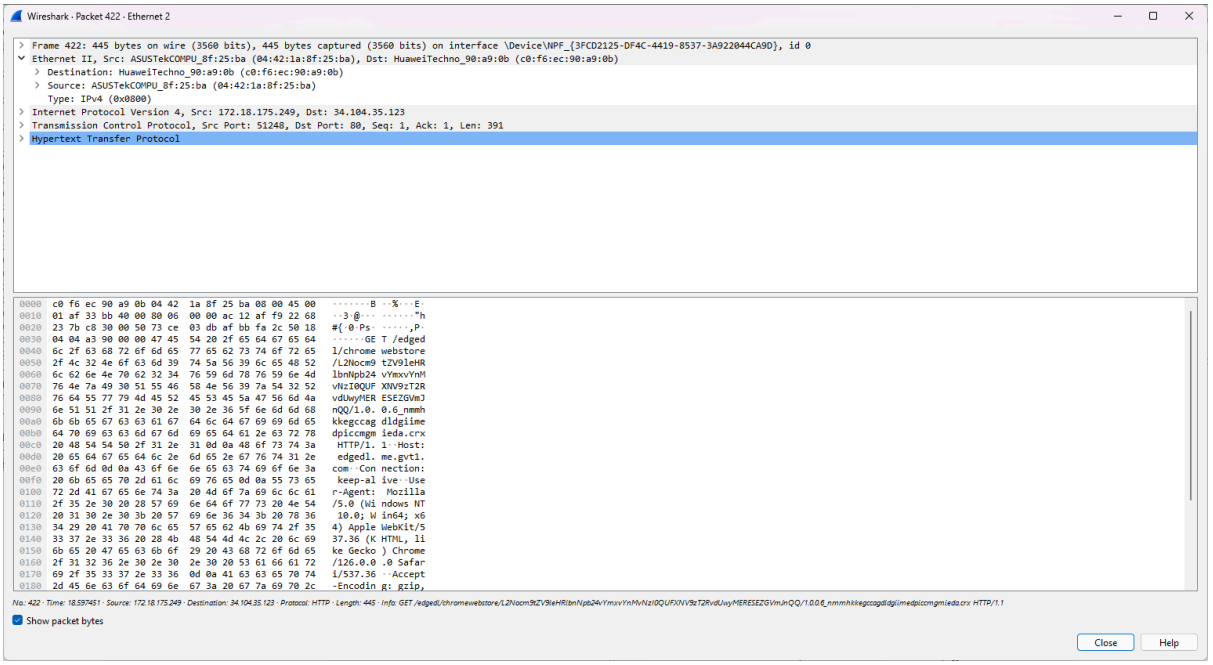


The network frame information includes a frame number of 422 and a frame length of 445 bytes. It also contains details about the arrival time.

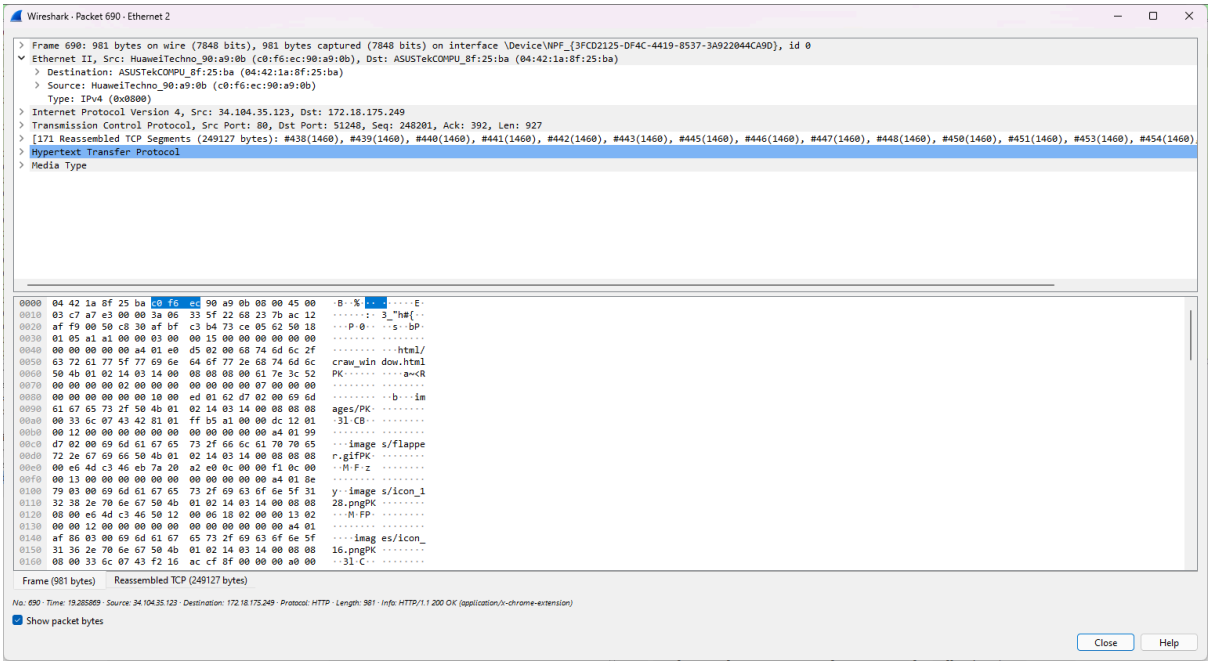


Similarly, the response contains a frame number of 690, a frame length of 981 bytes, and arrival time information.

Data Link layer (Ethernet II):

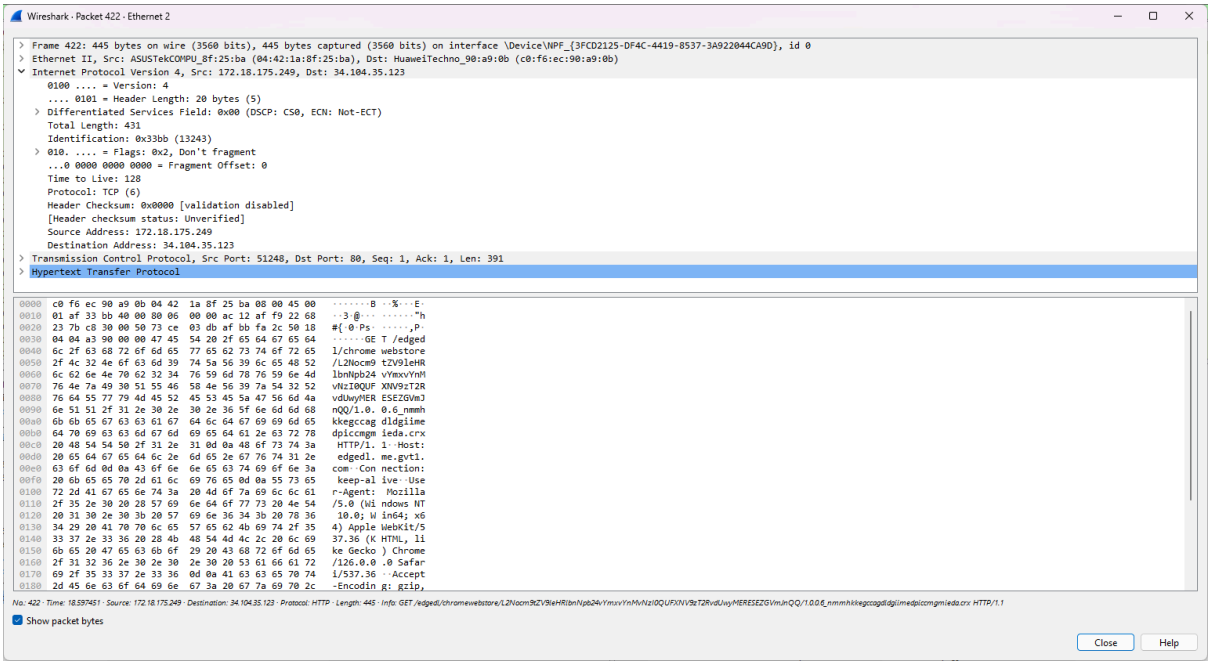


For this Ethernet frame carrying the request message, the destination and source MAC addresses are specified.

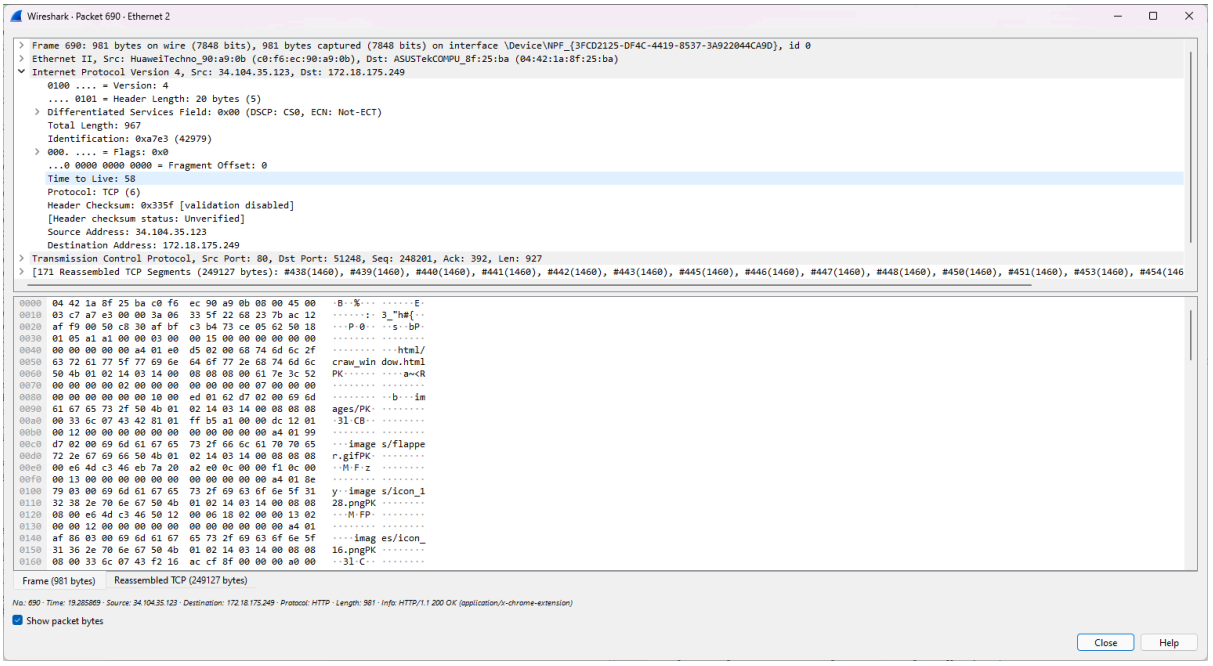


For the response Ethernet frame, the source and destination MAC addresses are also present.

Network layer (Internet Protocol):

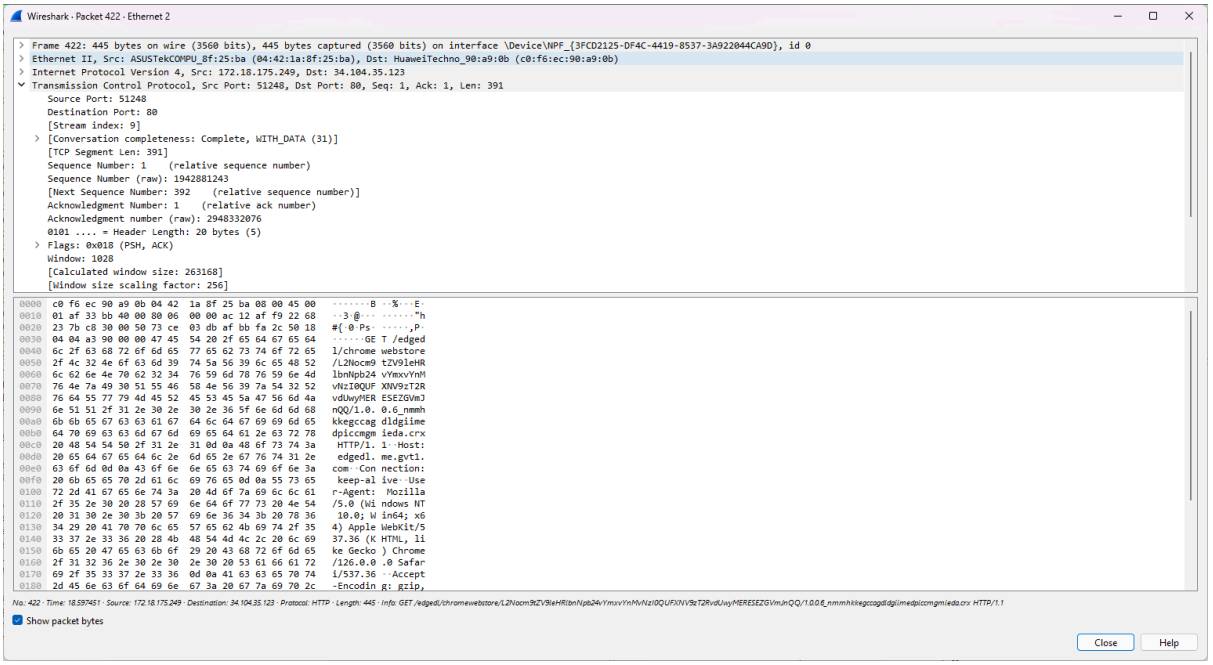


In this layer, the GET message includes version information, a 20-byte header length, flags, a checksum, and the source and destination IP addresses.

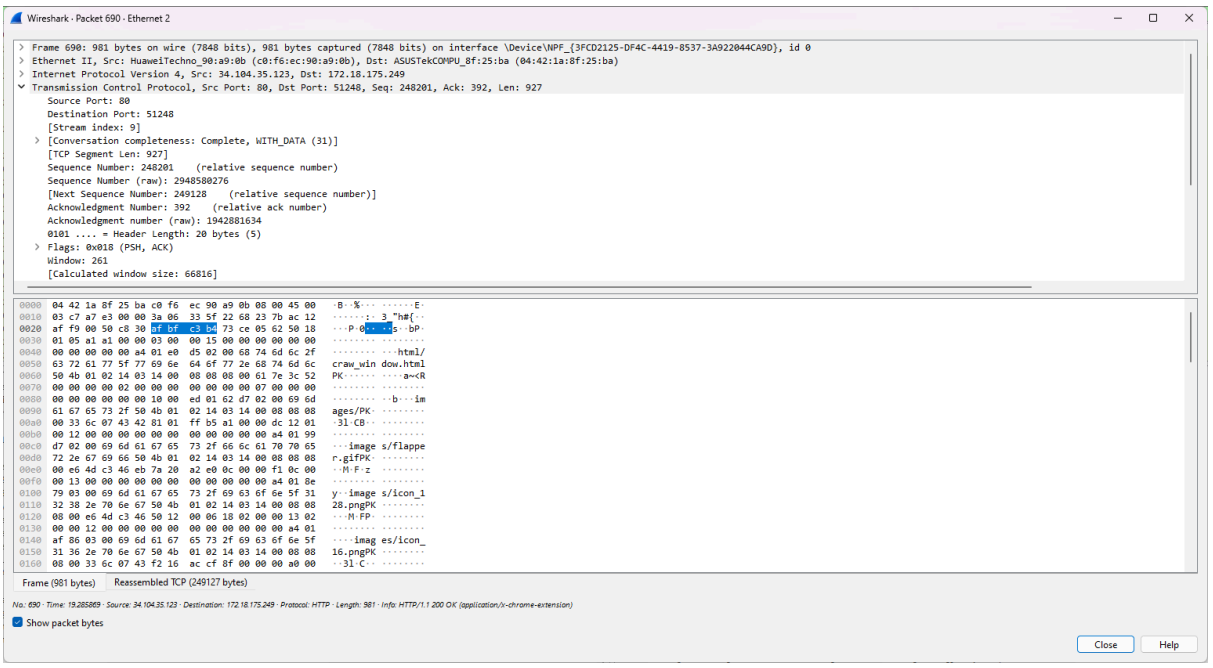


Similarly, the response message includes version information, flags, checksum, and the source and destination IP addresses.

Transport layer (Transmission Control Protocol):

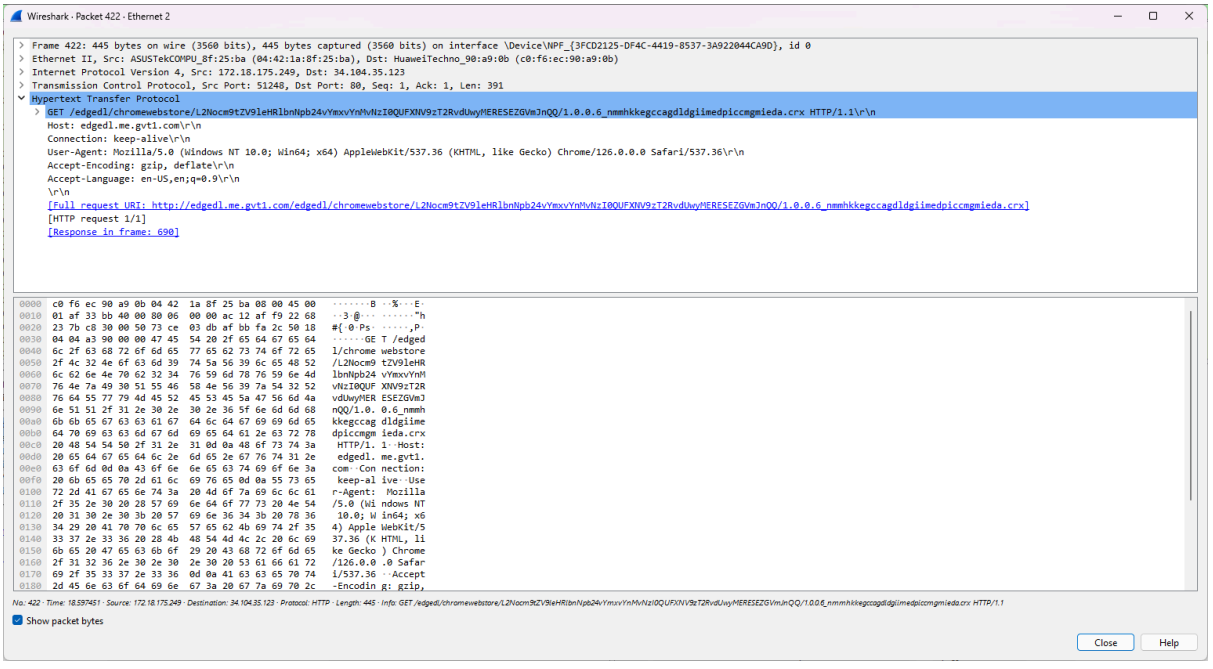


The TCP frame includes the source port (51248, dynamic range) and destination port (80, well-known). It also contains the acknowledgment number, sequence number, flags, and window size.

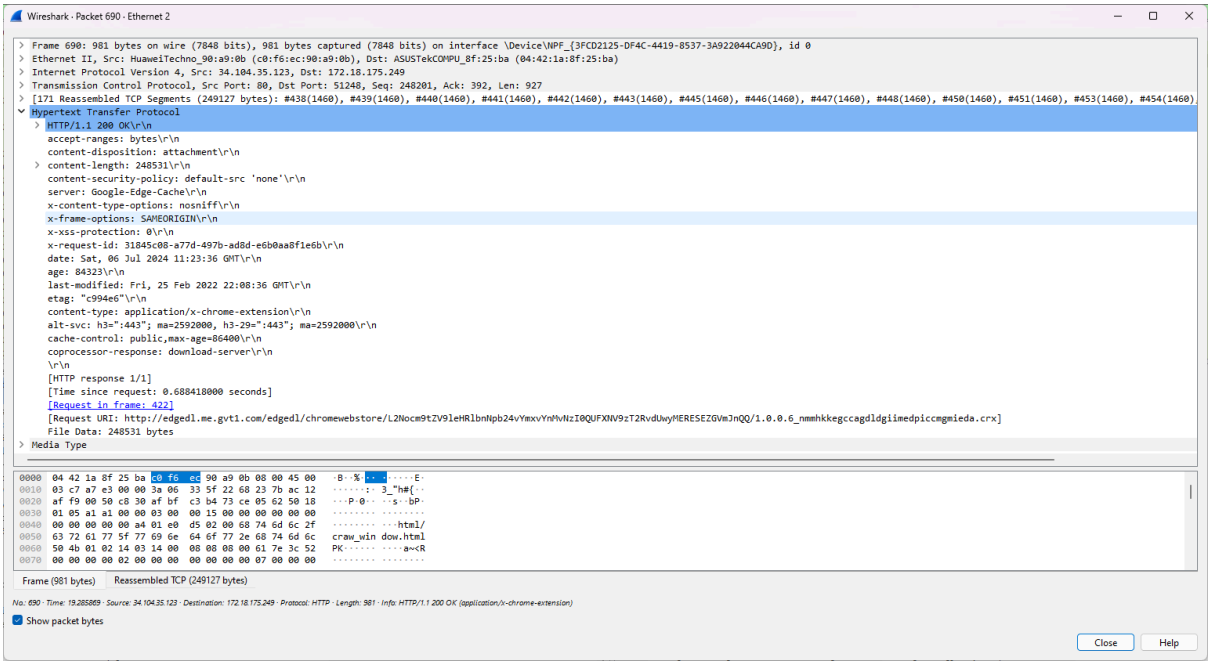


In the response, the TCP frame has a source port (80, well-known) and a destination port (51248, dynamic range), the reverse of the GET request. It also includes the acknowledgment number, sequence number, flags, and window size.

Application layer (Hypertext Transfer Protocol):



In this layer, HTTP processes the GET request, and the hostname is also shown.



In the response, HTTP shows a 200 (OK) message, along with the server name, content length, date, and last modification date.