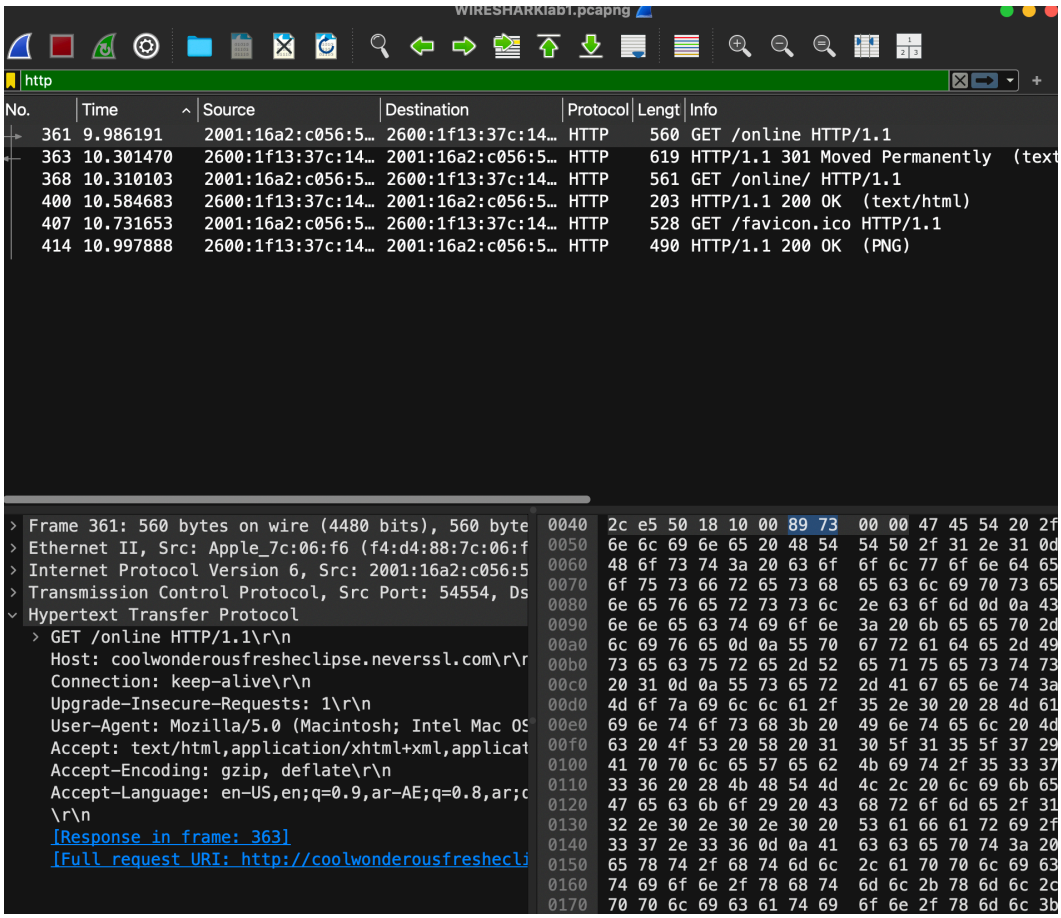
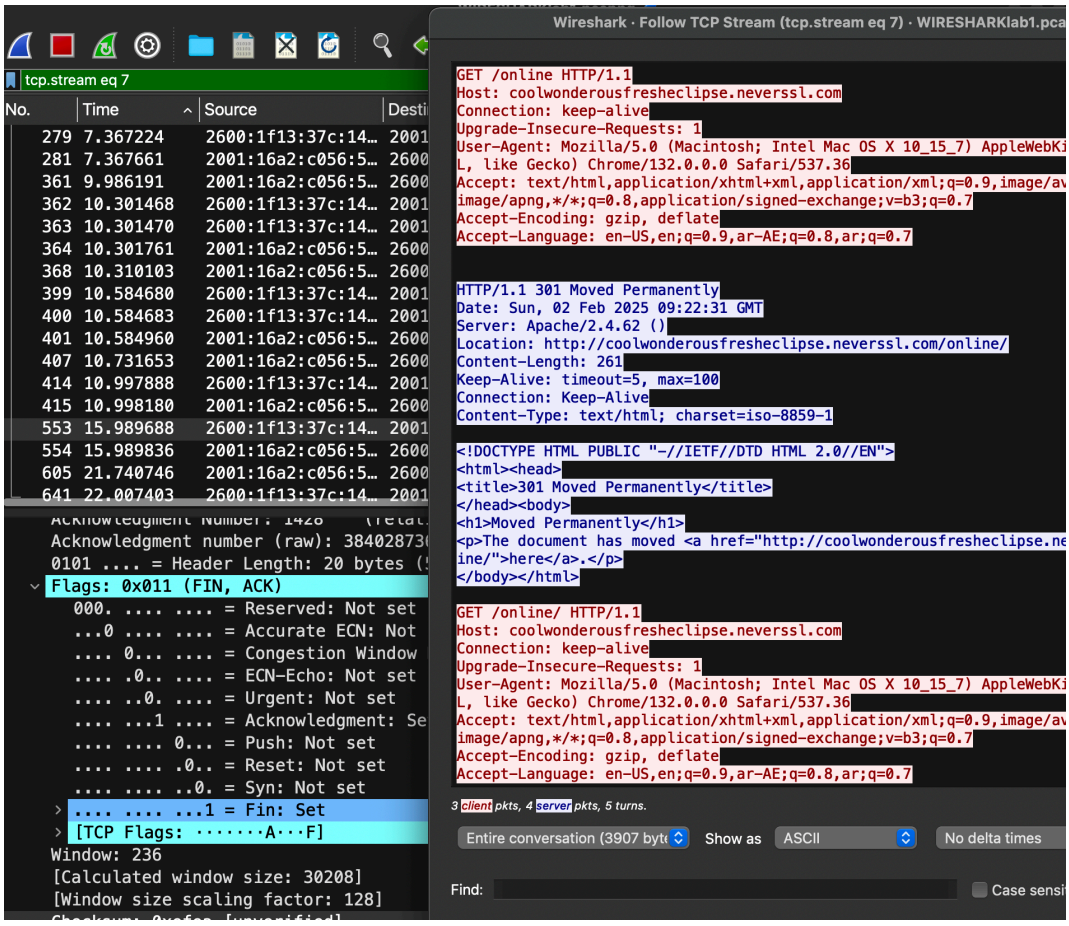
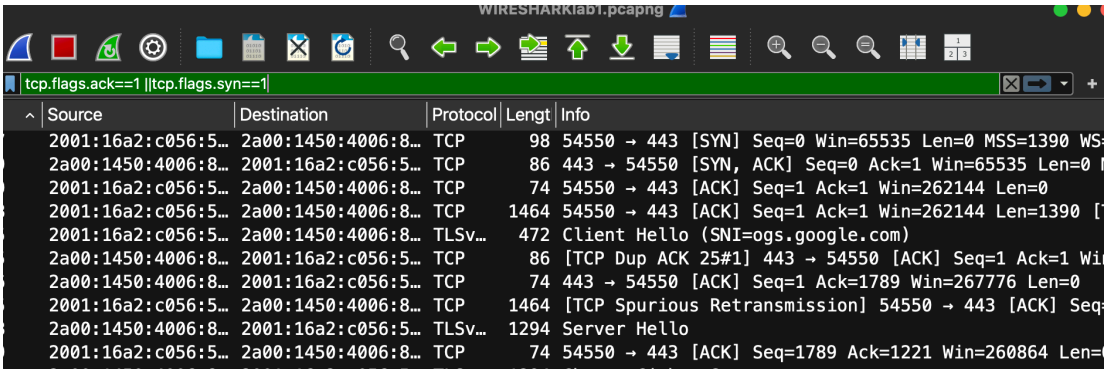


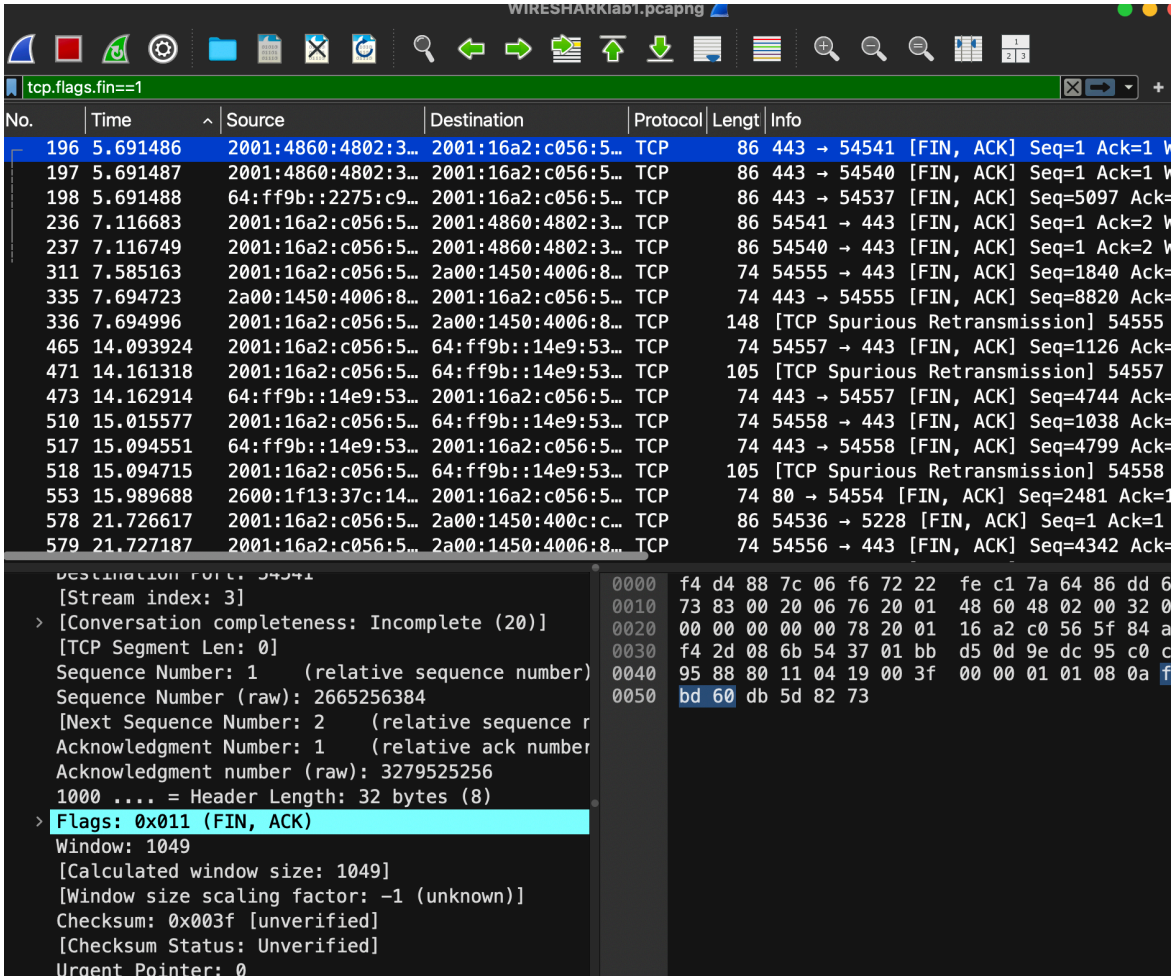
Http req/ resp



Tcp stream

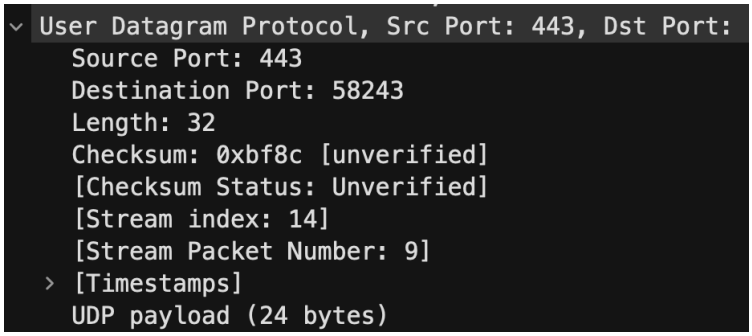


Three handshake

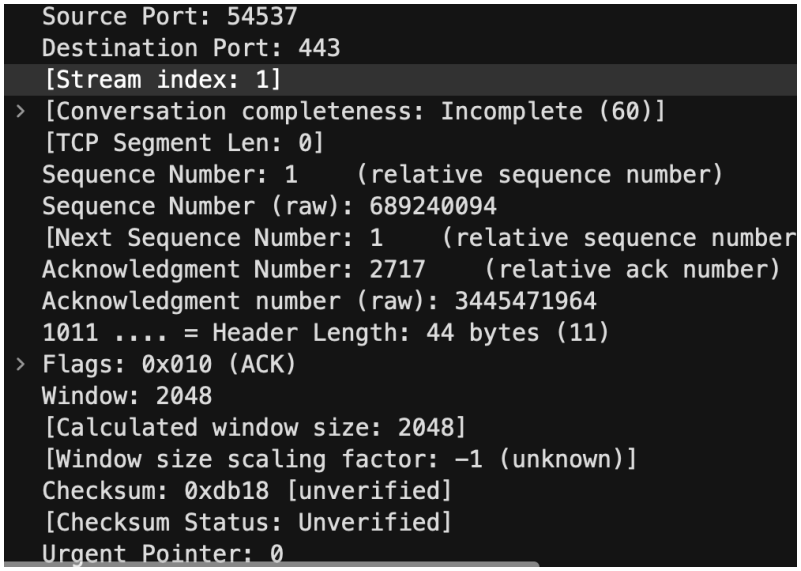


Fin/ack packets

Udp header



Tcp header



Feature	TCP	UDP
Use Cases	- Web browsing (HTTP/HTTPS)	- Live streaming, VoIP
	- File transfer (FTP, SFTP)	- Online gaming
	- Email (SMTP, IMAP, POP3)	- DNS queries
	- Remote access (SSH, Telnet)	- IoT sensor data transmission
Performance	- Reliable, ensures data integrity	- Faster, minimal overhead
	- Connection-oriented (3-way handshake)	- Connectionless, no handshake
	- Resends lost packets	- No retransmission, can drop packets
	- Higher latency due to error checking	- Lower latency, suitable for real-time apps