Elevate Labs

Short Report of Protocols Identified

1. DNS (Domain Name System)

- **Purpose:** Resolves domain names (like google.com) to IP addresses.

- **Captured Example:** Queries from client to DNS server (A records, responses with IPs).

2. TCP (Transmission Control Protocol)

- **Purpose:** Provides reliable, connection-oriented communication between devices.

- **Captured Example:** TCP 3-way handshake packets (SYN → SYN/ACK → ACK).

3. UDP (User Datagram Protocol)

- **Purpose:** Connectionless protocol used for faster communication (no reliability).

- **Captured Example:** DNS queries/responses were carried over UDP port 53.

4. HTTP/HTTPS (Hypertext Transfer Protocol)

- **Purpose:** Used for web browsing.

- **Captured Example:**

    - HTTP GET request to a website.

    - HTTPS packets visible (but encrypted, so only handshake info is visible).

📊 Summary

- **Protocols Identified:** DNS, TCP, UDP, HTTP/HTTPS

- **Traffic Observed:**

    - DNS lookups for websites

    - TCP connection establishment

    - Web browsing traffic over HTTP/HTTPS