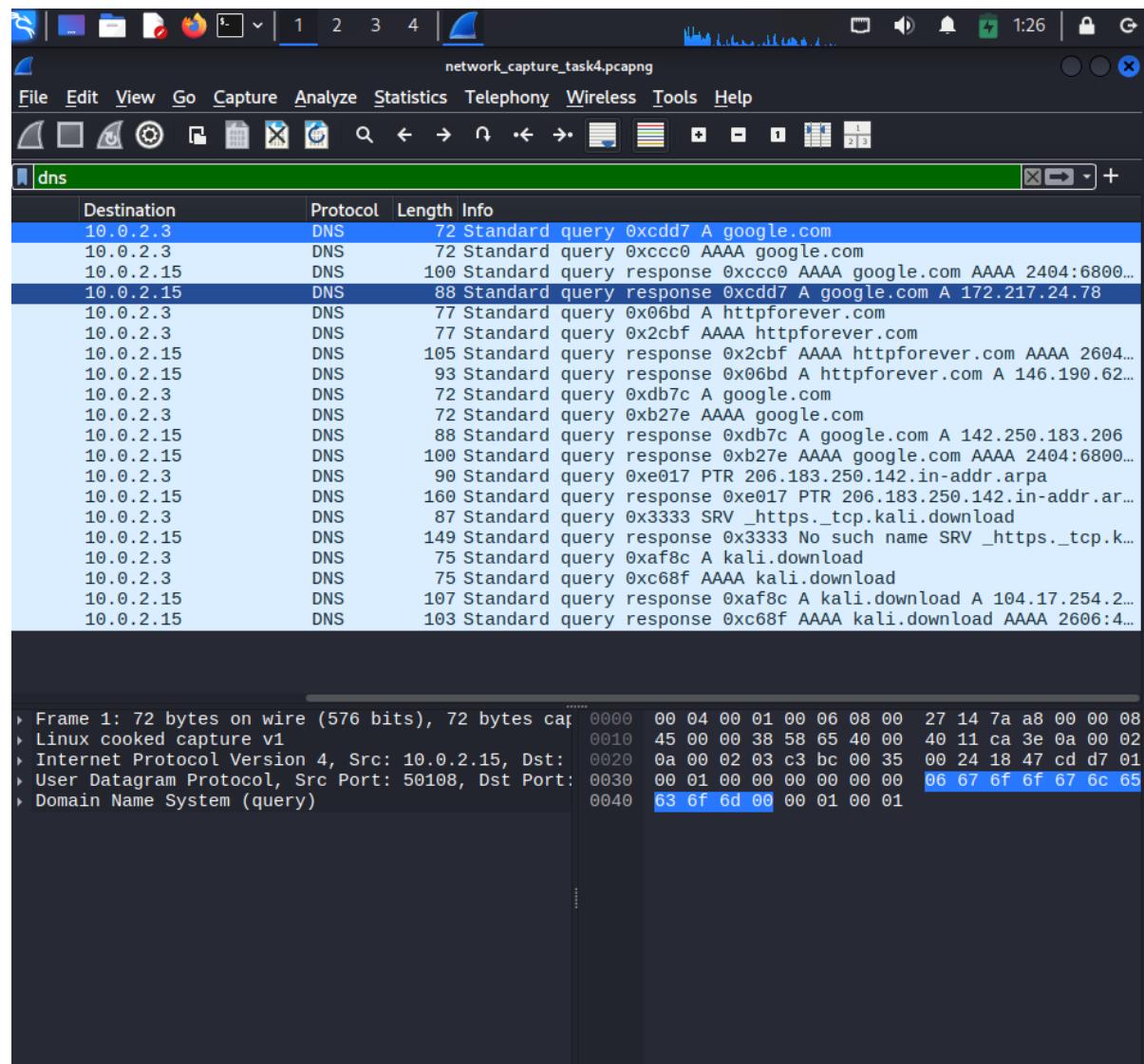


Protocols Identified

During the capture, multiple network protocols were identified. The main three were:

a) DNS (Domain Name System)

- Used for resolving domain names into IP addresses.
- Example packet:
 - Source: **192.168.29.89**
 - Destination: **10.0.2.15**
 - Query: **A record for google.com**

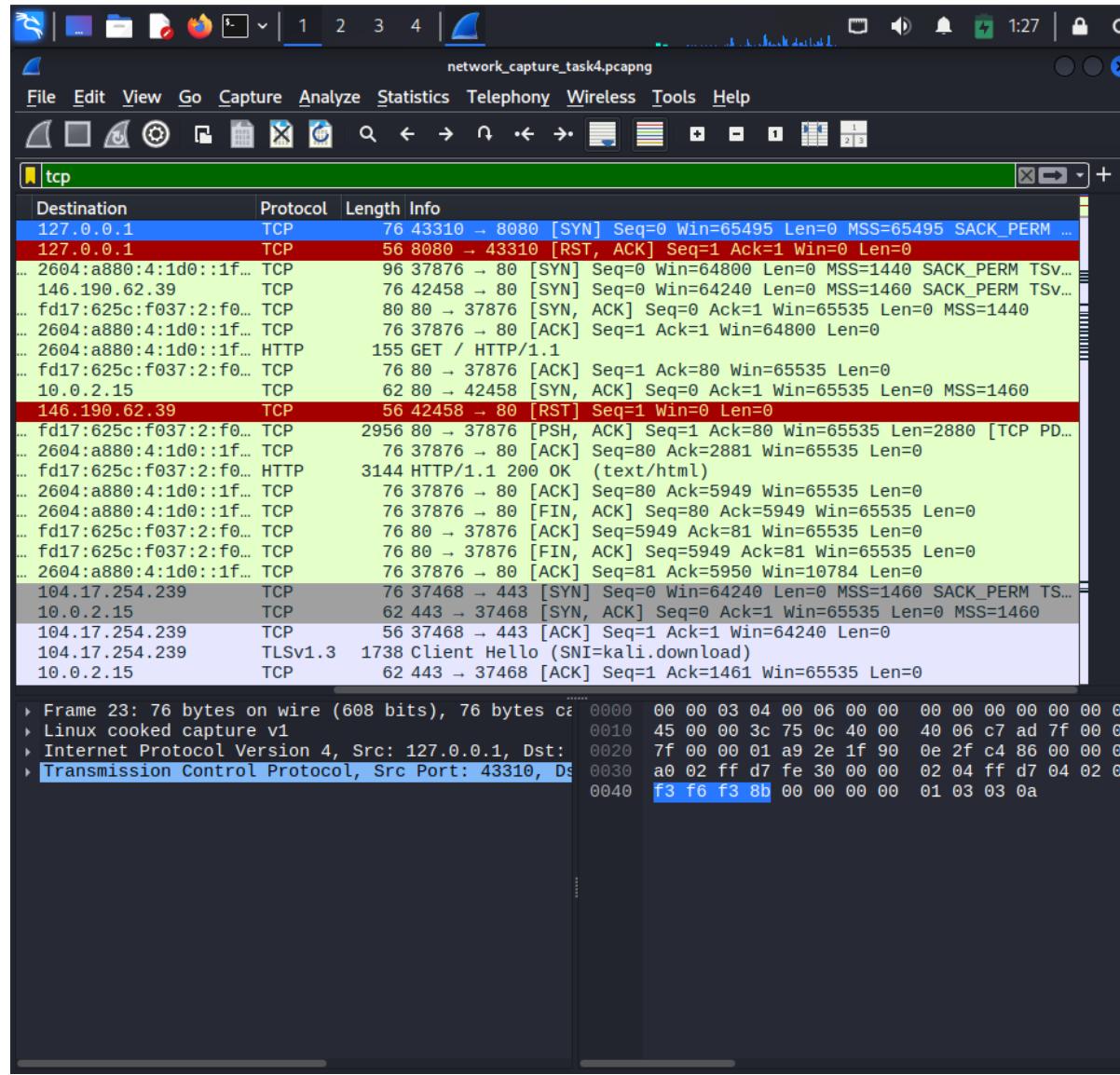


◦

b) TCP (Transmission Control Protocol)

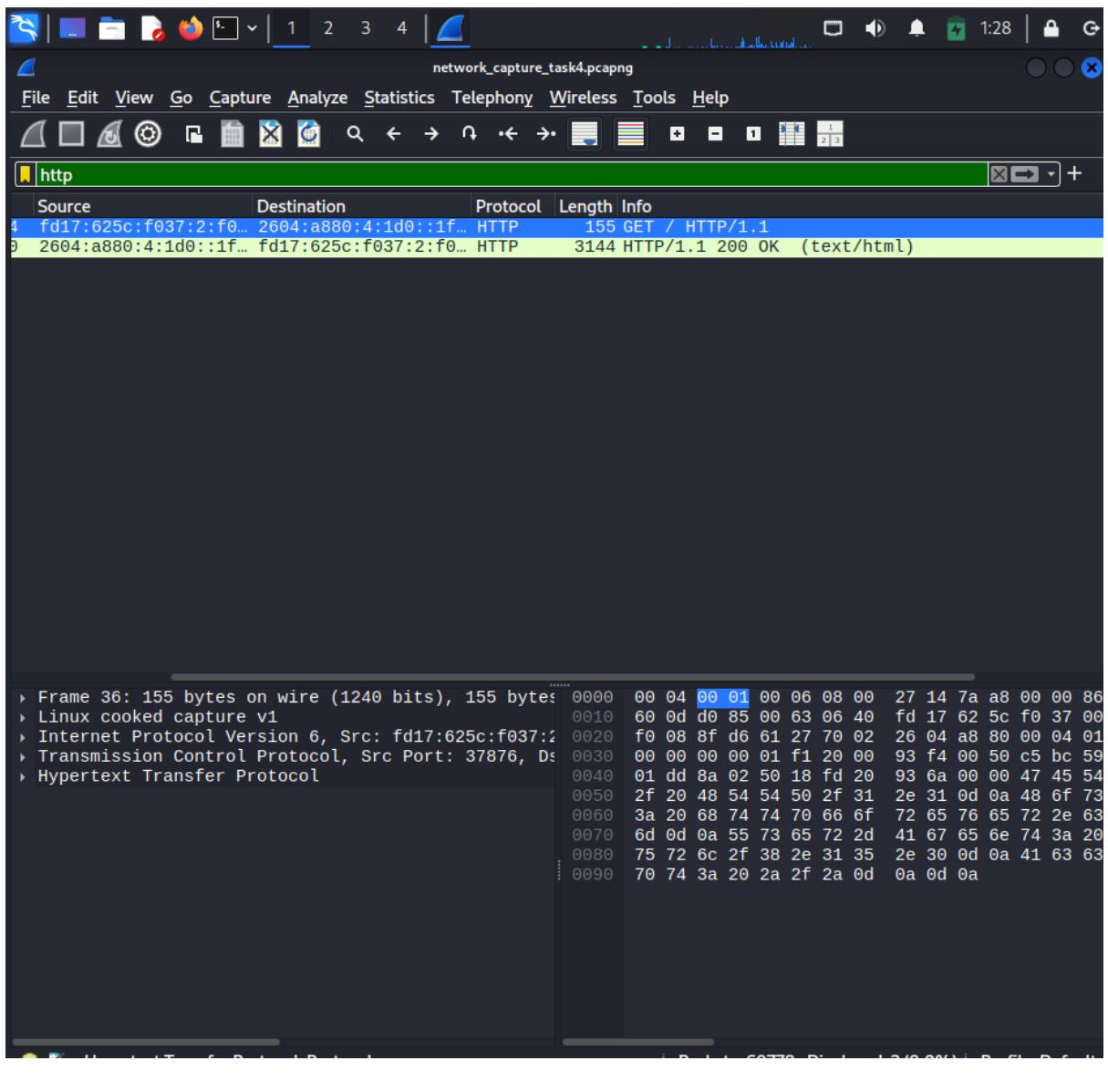
- Ensures reliable communication between devices.

- Example:
 - SYN, SYN/ACK handshake visible.
 - Ports: **443 (HTTPS), 80 (HTTP)**



c) HTTP (Hypertext Transfer Protocol)

- Appears when browsing websites.



Other protocols observed: ICMP (ping), ARP (address resolution).

Packet Details

- **DNS Query Packet**
 - Query Type: A (IPv4 address)
 - Hostname: google.com
 - Response Time: 27 ms
 - **TCP Packet**
 - Flags: SYN

- Source Port: 43210
- Destination Port: 443
- **HTTP Packet**
 - Method: GET
 - Status Code in response: 200 OK