

Wireshark Tool Exercises

1. Capturing Live Traffic – Use any website.
2. Applying Capture Filters:
 - a. HTTP traffic: http
 - i. For HTTP - Inspect request and response headers, URLs, and status codes.
 - ii. For HTTPS, observe the handshake process (TLS).
 - b. DNS requests: dns
 - i. Observe how domain names are translated into IP addresses.
 - ii. Identify DNS request and response packets.
 - c. TCP packets: tcp
 - i. Observe the 3-way handshake (SYN, SYN-ACK, ACK).
 - ii. Identify sequence numbers and acknowledgment numbers.
 - d. ICMP (ping): icmp
 - i. Send ping requests (ping google.com) and observe request/reply packets.
3. Detecting Man-in-the-Middle (MITM) Attacks
 - a. Monitor ARP poisoning attempts