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## **Network Packet Capture & Analysis Report**
**Objective:**
Capture live network packets and identify basic protocols and traffic types using Wireshark.
**Tools Used:**
* Wireshark (free, open-source network protocol analyzer)
**Procedure:**
1. Installed Wireshark.
2. Started capturing traffic on the active network interface.
3. Generated traffic by browsing a website and pinging a server.
4. Stopped the capture after one minute.
5. Applied protocol filters (HTTP, DNS, TCP).
6. Identified multiple protocols in the capture.
7. Exported the capture as a `.pcap` file.
**Protocols Identified:**
* **HTTP:** Used for web browsing traffic.
* **DNS:** Used for resolving domain names to IP addresses.
* **TCP:** Transport protocol ensuring reliable data delivery.
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- * The capture contained a mix of web browsing, DNS queries, and TCP session establishment.
- * Multiple IP addresses were contacted, indicating connections to various servers.
- * DNS queries confirmed name resolution before HTTP requests.