Tool exploration - Wireshark:

(5) Tool exploration - Wireshout

Wireshort is a powerful and widely used network

protocol analysis of allows you to capture and

mapped data packets travelling own a network in

real-time, making it a crucial tool for studying

real-time, networks, troubleshooting network issues and

understanding protocols.

key features:

- 1. Packet capture: Capturer line network traffic from various interfaces (ex. ethernet, wi-ff).
- 2. Protocol Analysis supports hundreds of protocols

 CEX: TCP, UDP, HTTP, FTP).
- 3. Etherny: offers powerful filters to replate specific partiets or traffic types.
- 4. Visualization! Displays packets details with werarchial layers (ethernet, IP, TCP/UPP).

Use cases of Wireshort:

- 1. Network Troubleshooting:
 - * Diagonising slow network speeds.
 - * Identifying bottle nects or misconfigurations
- 2. security Analysis:
 - & Detecting malicious traffic or intrusions.
- 3. Protocol study:
 - of Understanding packet structures and communication

Common Fitness:

- * http: show only HTTP traffic.
- * top. port = = 80: 8 how traffic on TCP port 80
- * ip.addr == 192.168.1.1: 8how packets to or from a specific IP address.

 * udp: show only upp traffic.