

## 18. WIRESHARK

### WIRESHARK

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It is a powerful used network protocol analyzer. It allows you to capture and inspect data packets travelling a network in real time, making it a useful tool for studying computer networks, troubleshooting network issues or understanding protocols.

### Key Features

- 1) Packet Capture: Captures ~~transmits~~ live network traffic to ~~store~~ from various interfaces.
- 2) Protocol Analysis: Supports hundreds of protocols.
- 3) Filtering: Offers powerful filters to isolate specific packets or traffic types.
- 4) Visualization: Displays packet details with hierarchical layers (Ethernet, IP, TCP/UDP).

### Use Cases of Wireshark

#### 1) Network Troubleshooting

- Diagnosing slow network speeds
- Identifying bottlenecks

#### 2) Security Analysis

- Detecting malicious traffic or intrusions



### 3) Protocol Study:-

Understanding packet structure and communication flow

#### 1. Common Filters

- http:- Show only HTTP traffic
- tcp port = 80 = Show traffic on TCP port 80
- ip address = 192.168.1.1
- udp - Show only UDP traffic