DARSHAN INSTITUTE OF ENGINEERING & TECHNOLOGY

Semester 5th | Practical Assignment | Computer Networks (2101CS501)

Date: 30 /8 /2024

Lab Practical #08:

Study Packet capture and header analysis by Wireshark (HTTP, TCP, UDP, IP, etc.)

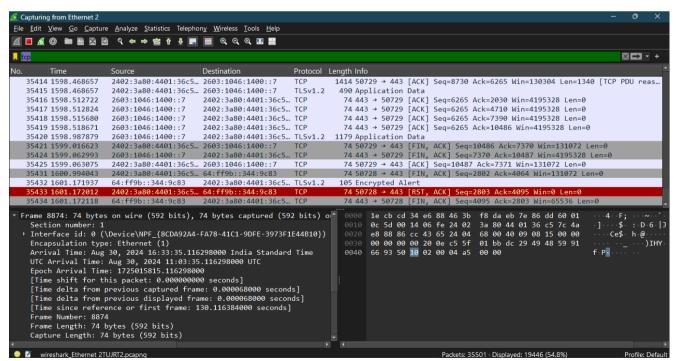
Practical Assignment #08:

1. Explain usage of Wireshark tool.

Wireshark is a powerful network protocol analyzer used for capturing and analyzing network traffic in real-time. It helps in troubleshooting network issues, monitoring network activity, and ensuring security by inspecting the data packets transmitted over a network. **Key Uses:**

- 1. Network Troubleshooting: Identifying bottlenecks, dropped packets, or misconfigurations.
- 2. Security Analysis: Detecting malicious traffic, network intrusions, or unauthorized access.
- 3. Protocol Analysis: Analyzing network protocols such as TCP/IP, HTTP, DNS, etc.
- 4. Performance Monitoring: Measuring network performance and bandwidth utilization.
- 5. Learning & Research: Understanding how data flows in a network for educational purposes. Wireshark provides detailed packet-level information, making it invaluable for network administrators and security professionals.

2. Packet capture and header analysis by Wireshark (HTTP, TCP, UDP, IP, etc.) **TCP**



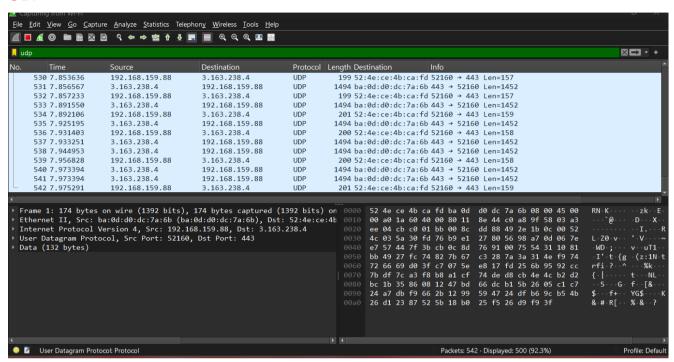


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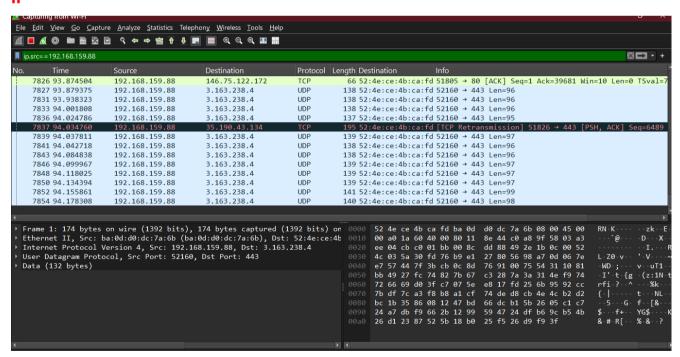
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UDP



IP





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HTTP

