

(A Constituent College of Somaiya Vidyavihar University)

Batch: D-2



Roll No.: 16010122151

Experiment / assignment / tutorial No.___

	Grade: AA / AB / BB / BC / CC / CD /DD
	Signature of the Staff In-charge with date
Experiment No.:10	
TITLE: Study of Packet Analyzer tool: Wireshark	
AIM: To study and analyse various Protocols using Packet Analyzer tool: Wireshark	
Expected Outcome of Experiment: CO:	
Books/ Journals/ Websites referred:	
·	etworks", Pearson Education, Fourth Edition cations and Networking", TMH, Fourth Edition
Pre Lab/ Prior Concepts:	
•	Protocol, Router configuration Commands
New Concepts to be learned: Packet Analyzer tool: Wireshark.	



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THEORY:

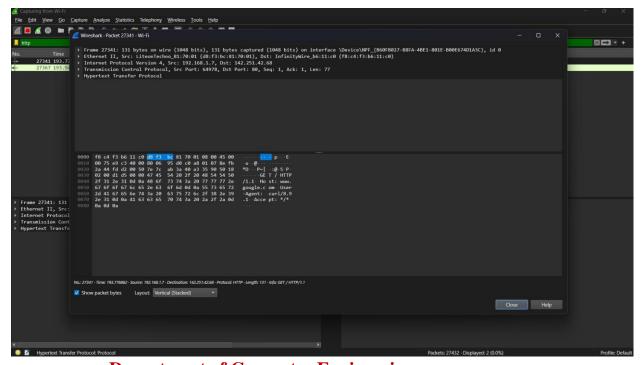
A packet analyzer, or network sniffer, like Wireshark, captures data packets traveling over a network and provides information that can be crucial for analyzing network health, troubleshooting issues, and detecting malicious activities.

Key Features of Wireshark:

- 1. **Protocol Analysis**: Wireshark can analyze over 2000 protocols and is updated frequently to include the latest protocol definitions.
- 2. **Packet Capture and Display**: Captures real-time data packets and displays them with detailed information, including source and destination IP, protocol type, and payload content.
- 3. **Filters and Color Coding**: Uses display filters (e.g., ip.addr == 192.168.1.1) to isolate specific traffic and color coding to distinguish protocols at a glance.
- 4. **Expert Information**: Highlights network anomalies like duplicate packets, retransmissions, and out-of-order packets.
- 5. **Graphical Analysis Tools**: Provides tools to graphically analyze data flows, packet lengths, and time-based activity.

IMPLEMENTATION:

1.HTTP

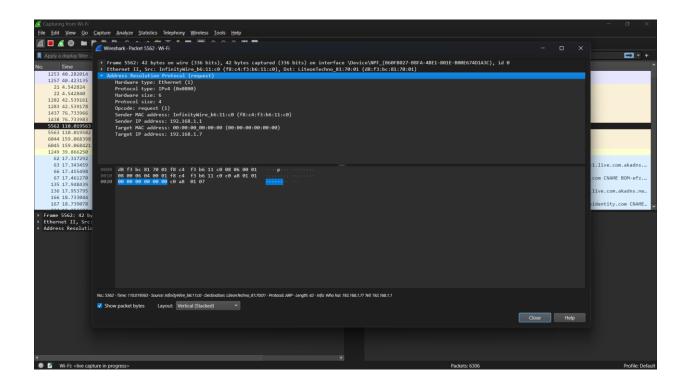


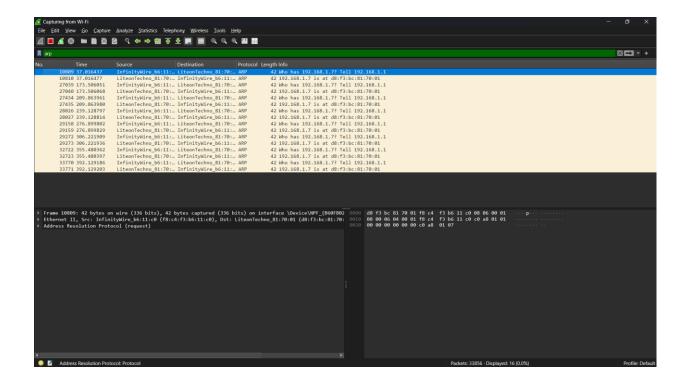


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2.ARP



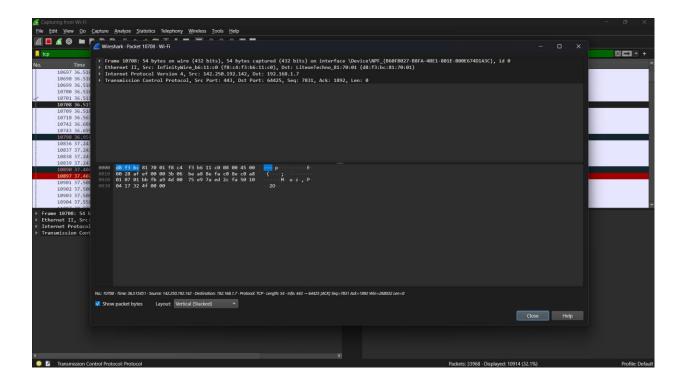




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3.TCP







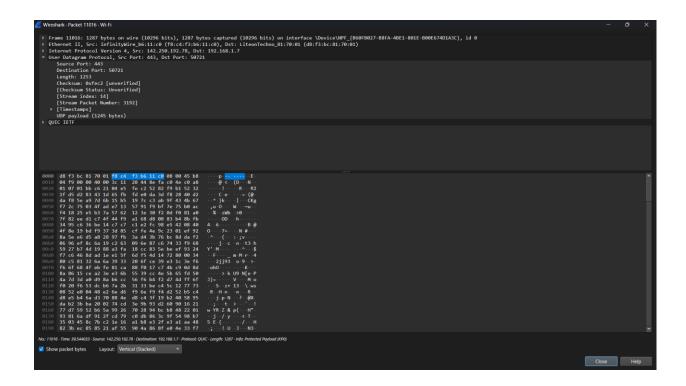
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4.IPv4



5.UDP





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CONCLUSION:

We learned how to analyse the web protocols with wireshark, and got to know in detail how the computer network works

Date: 11-11-2024 Signature of faculty in-charge