

Date:

Experiment 5:

Packet capture tool - Wireshark

Wireshark is a powerful widely used network protocol analyzer that allows users to capture and analyze data packets travelling to a network in real-time.

Why Wireshark is used?

- 1) Network Troubleshooting
- 2) Learning and education

Student's observation:

- 1) Promiscuous mode is a network interface card (NIC) setting that allows card to intercept and read all network packets on network segment
- 2) No, ARP packets do not have transport layer header
- 3) DNS (Domain Name System) primarily uses UDP for its transport layer protocol
- 4) HTTP protocol uses port number 80 by default.
- 5) It is a broadcast IP address which is used to send packets to all devices on a specific network segment.

Result: Thus the experiment is studied and observed.