

AIM :- Experiments on Packet capture tool: Wireshark

STUDENT OBSERVATION:-

1) What is promiscuous mode?

→ It is a network interface mode where the network card intercepts and reads all packets that pass through the network, regardless the destination of MAC address.

→ In promiscuous mode, it processes every packet

2) Does ARP packets have transport layer headers?

→ Since ARP operates at layer 2, it doesn't use transport layer's features like segmentation or flow control.

→ ARP used for direct communication within the local network and doesn't require higher layer protocols

3) Which transport layer protocol is used by DNS?

→ DNS uses UDP because it is faster for simple queries that don't require guaranteed delivery

→ DNS uses TCP for more reliable delivery when large responses or zone transfers are needed.

4. What is the port number used by HTTP Protocol?

→ HTTP on port 80 is the default protocol for web traffic in browsers.

→ Communication over HTTP (port 80) is unencrypted unlike HTTPS (port 443)

5. What is a broadcast IP address?

→ One to many: Broadcast addresses send a single packet to all devices in a network

→ Limited to Subnet: Broadcasts are limited to the devices within the same subnet and do not pass through routers.


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