Lab Assignment - 8

WIRESHARK



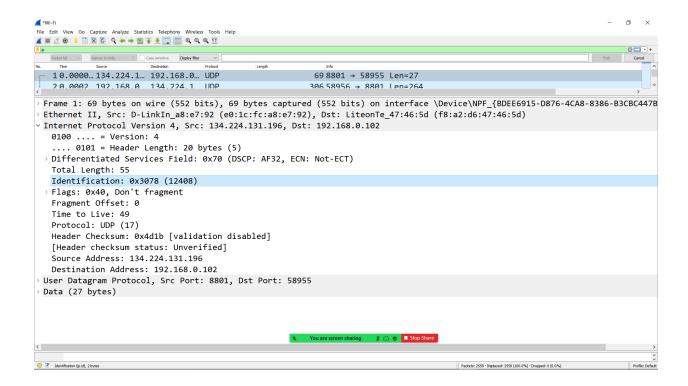
Objective:

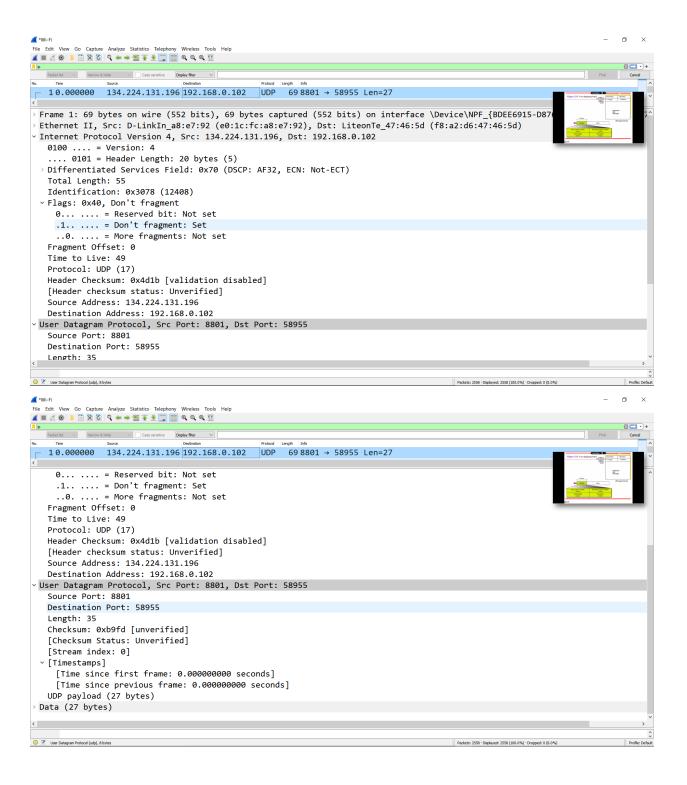
Use wireshark to sniff incoming and outgoing packets and answer the following questions given in the assignment handout.

Problem Statement:

Wireshark is a free and open-source packet analyzer. It is used for network troubleshooting, analysis, software and communications protocol development, and education. Use wireshark to study ongoing packets in the network and collect all the parameters like source and destination ip, port, TCP/IP header etc.

Outputs:





Q/A:

- 1. Is the frame an outgoing or an incoming frame?
 - -> Incoming
- 2. What is the source IP address of the network-layer header in the frame?
 - -> 134.221.134.194
- 3. What is the destination IP address of the network-layer header in the frame?
 - -> 192.168.0.102
- 4. What is the total number of bytes in the whole frame?
 - -> 69 bytes
- 5. What is the number of bytes in the Ethernet (data-link layer) header?
 - -> 20 bytes
- 6. What is the number of bytes in the IP header?
 - -> 20 bytes
- 7. What is the total bytes in the message (at the application layer)?
 - -> 27 bytes

Conclusion:

Through this experiment we understood how packet analysis is done using wireshark in real time, and capture basic pamerters used to transfer the packet from source IP to destination IP. We also learned how to use the main window and other GUI tools in wireshark.

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CSE-G