

430/530 – Wireshark Lab

Name: _____

Please review the lab directions and example screen capture provided in Canvas for exactly what is expected for each packet header image submission.

Ethernet Header Screen Capture

Ethernet Header – Broadcast Packet Screen Capture

Find an Ethernet packet that is a broadcast packet. This capture should be a different packet from the [Ethernet Header Screen Capture](#) on the previous page.

IP Header with Kali IP Screen Capture

Most specifically, find an IP packet where the IP address matches the IP address of your Kali box. In addition to a screen capture of the IP header, include a screen capture of how you determined the IP address of your Kali box (circle the IP address on the capture, if necessary).

Kali IP Address Screen Capture

ARP Header – Request Packet Screen Capture

ARP Header – Reply Packet Screen Capture

ICMP Header Screen Capture

UDP Header Screen Capture

TCP Header Screen Capture

DNS Header Screen Capture

Lab Reflection

Answer the following reflection questions using complete sentences - use details and be specific to avoid vague answers. All responses should be *at least* three sentences. Please spend time thinking of thoughtful responses.

- a) Why would a “good actor” want to use a network packet analyzer program like Wireshark?

- b) Why would a “bad actor” want to use a program like Wireshark? How could they use Wireshark to their advantage? What information could potentially be gained by using a program like Wireshark?

- c) Are there any countermeasures that could decrease the impact of the information a bad actor could obtain when using a program like Wireshark?

- d) What connection do you see between the book's materials, lectures, and assignments and what is presented in Wireshark? What are your reactions to the amount of information Wireshark provides about each packet?

- e) If you're new to Wireshark, what did you find most interesting about Wireshark? Be specific. If you're already familiar with Wireshark, seek out some new information, such as a different way to use filters, and share what you have learned.