CSCI 530: Security Systems

Lab Assignment 5: Wireshark, Due: November 1st, 2024

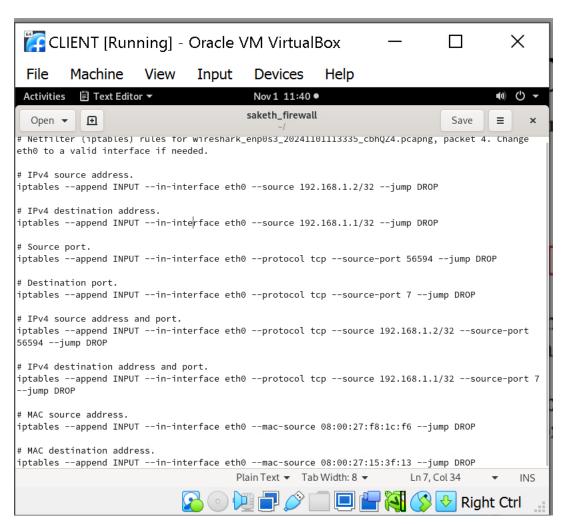
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Assignment Questions:

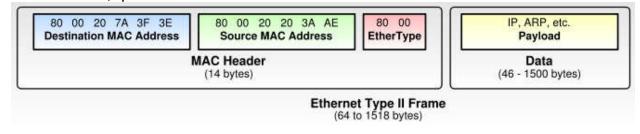
- 1. The number of bytes in the echo protocol exchange in section 4 above, according to the "Follow TCP Stream" window, is _14 bytes_
- The number of bytes in the echo protocol exchange in section 4 above, according
 to the Statistics/Conversation List/TCP window, is <u>888 Bytes</u>
- 3. The iptables command syntax to create a firewall rule prohibiting use of the standard echo protocol (Section 6 above) is:



4.	OMITTED - Do not answer this question.
5.	The number of frames in section 9's data stream was
6.	The average length/size (in bytes) of the frames in section 9's DataStream was
7.	The most common frame size among the frames in section 9's DataStream was1513.96 (~1514 bytes)
8.	The maximum frame size among the frames in section 9's DataStream was
9.	For any of those max-sized frames, the size of its ethernet payload portion was
10	For that frame, the size of the remainder of the packet (i.e., its header) was
11.	For that frame (and all the others like it) Wireshark names its <u>highest-level</u> payload (see the packet details pane). It's <u>FTP</u>
12.	The observed value of the maximum frame size is interesting. It could not be any larger because (consider the reference graphic that follows):
	Answer: The standard maximum transmission unit (MTU) for Ethernet

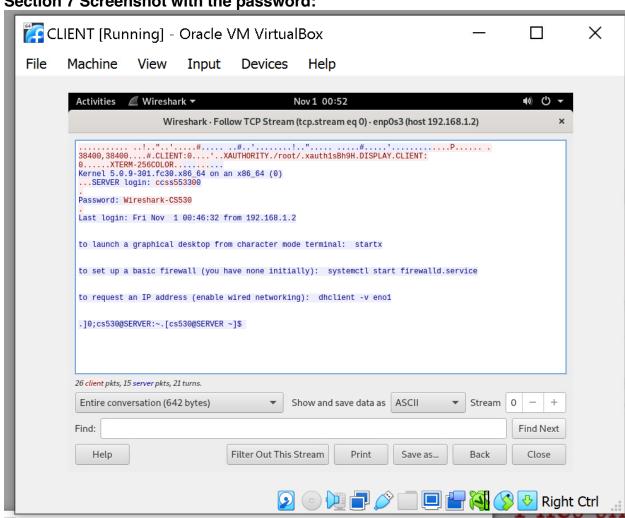
Answer: The standard maximum transmission unit (MTU) for Ethernet frames, which is 1500 bytes for the payload + 14 bytes for the Ethernet header, is represented by the observed maximum frame size of 1514 bytes, making it noteworthy. Because it complies with the Ethernet MTU, the frame size limit specified by the Ethernet standard, this maximum frame size could not be greater.

For reference, question 12:



- 13. At the bottom of your file, insert two screen captures you made:
 - the one you generated in section 7 above (telnet login showing cleartext password)
 - the one you generated in section 10 ("snakeoil" tls decrypt)

Section 7 Screenshot with the password:



Section 10 Screenshot with the decrypted TLS Stream:

