

ANALYZE YOUR FIRST PACKET WITH WIRESHARK

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1. High-Level Project Description:

*In this lab activity, we'll learn how to open and analyze a packet capture file using Wireshark.

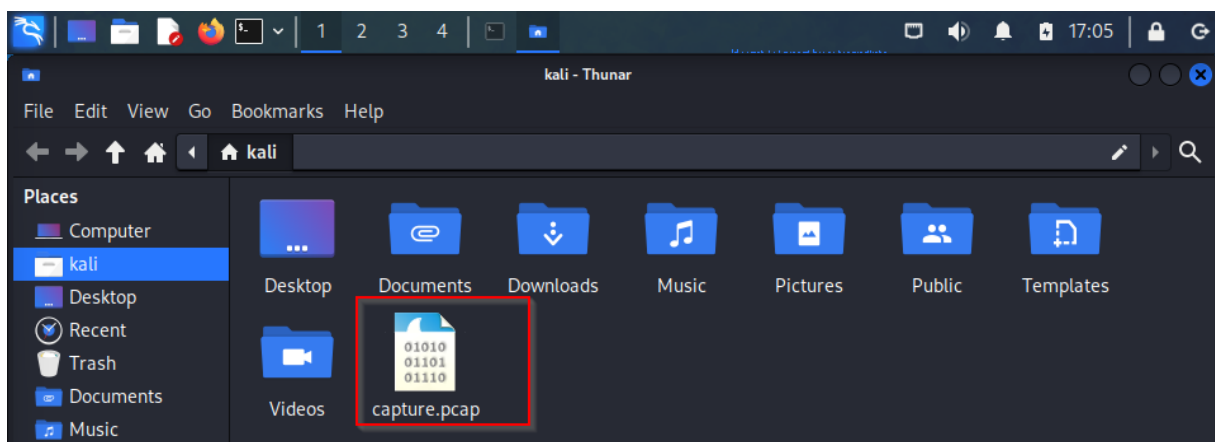
2. Project Setup and Required Tools:

*Either a Linux, Mac, or Windows Machine can be used to perform this task. The tool Wireshark was already provided to us; however, it can be downloaded from <https://www.wireshark.org/download.html> if necessary.

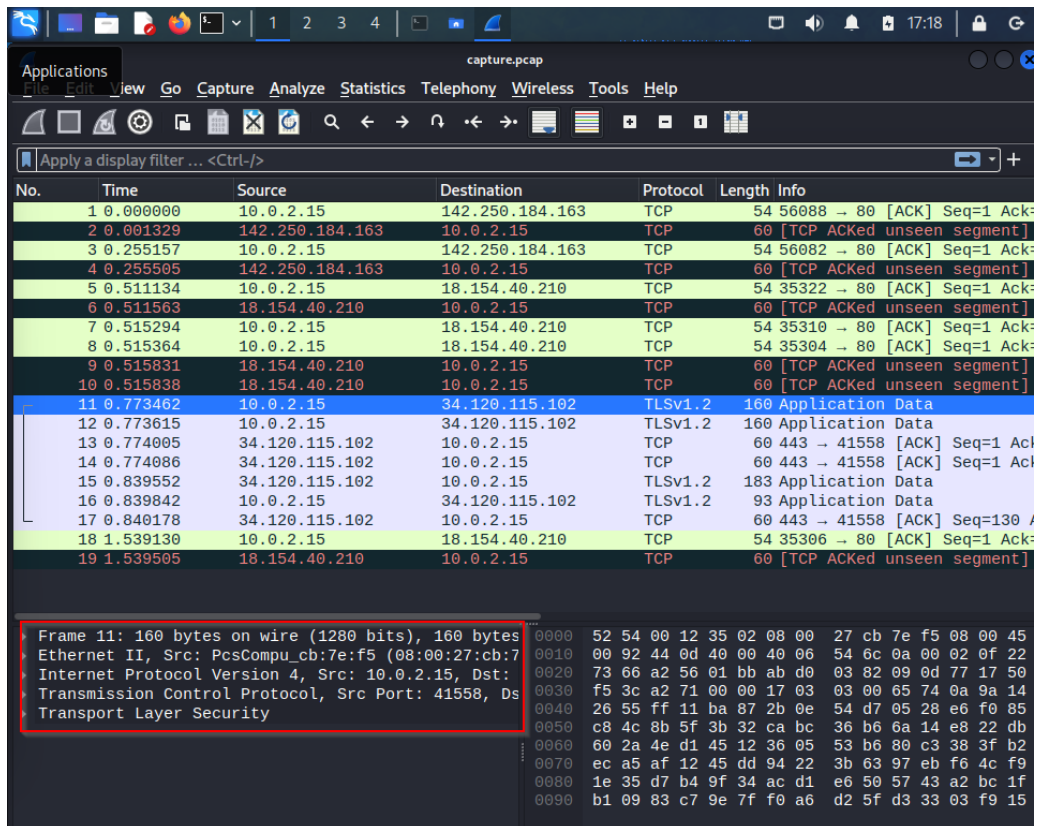
3. Step by Step Project Walkthrough

*We have a few tasks in this lab: Open a packet capture file using Wireshark, examine packet information, and apply display filters

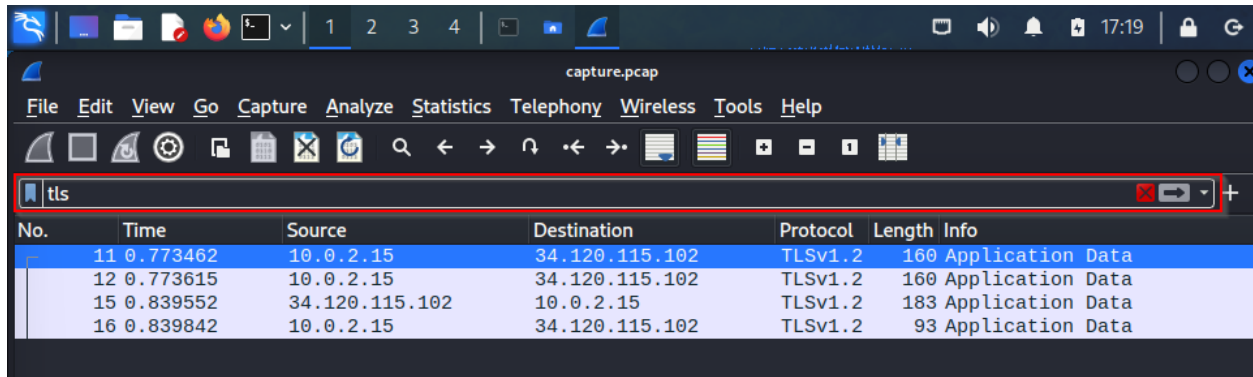
*We will start by opening the packet capture we previously saved using tcpdump (note that Wireshark can also be used to capture packets). We simply clicked on the saved capture to start.



*Once opened the file, we can see that several rows of information are displayed, each corresponding to a packet. Click on one packet and you will be able to see the information it contains, including the MAC addresses (Data Link layer/OSI layer 2), IP addresses (Internet layer/OSI layer 3), TCP (Transport layer/OSI layer 4), etc.



*Lastly, in order to apply a display filter, simply look for the search tab and apply any filters you would need (such as a specific MAC or IP, packets using a given protocol, etc).



4. Summary and/or Recommendations:

*In this activity, we learned how to use Wireshark, arguably the most utilized tool for analyzing packet captures, by opening a packet capture, examining the contents of packets, and applying filters.