Live Packet Sniffing Exercise

Premise

- An unknown party is sending malicious packets to the users network, the user needs to figure out the payload of these packets
  - NIST: K0062, K0301

Student Steps

- Log into Windows machine
  - Enter **CMD** and type *ipconifg*
  - Look for **IPv4 Address** (10.16.1.XYZ)
- Log into Linux Machine
  - Open a **terminal** on the Desktop and run "./PacketSend WINDOWS_IPv4_Address"
- Log into Windows Machine
  - Complete exercise
- Return to Linux machine and close the terminal

Recommend Tools

- Wireshark

Questions

- Which *protocol* are the malicious packets using
- What *port* are the packets targeting
- What is text/ASCII *payload* of the malicious packet (data segment)

FILE

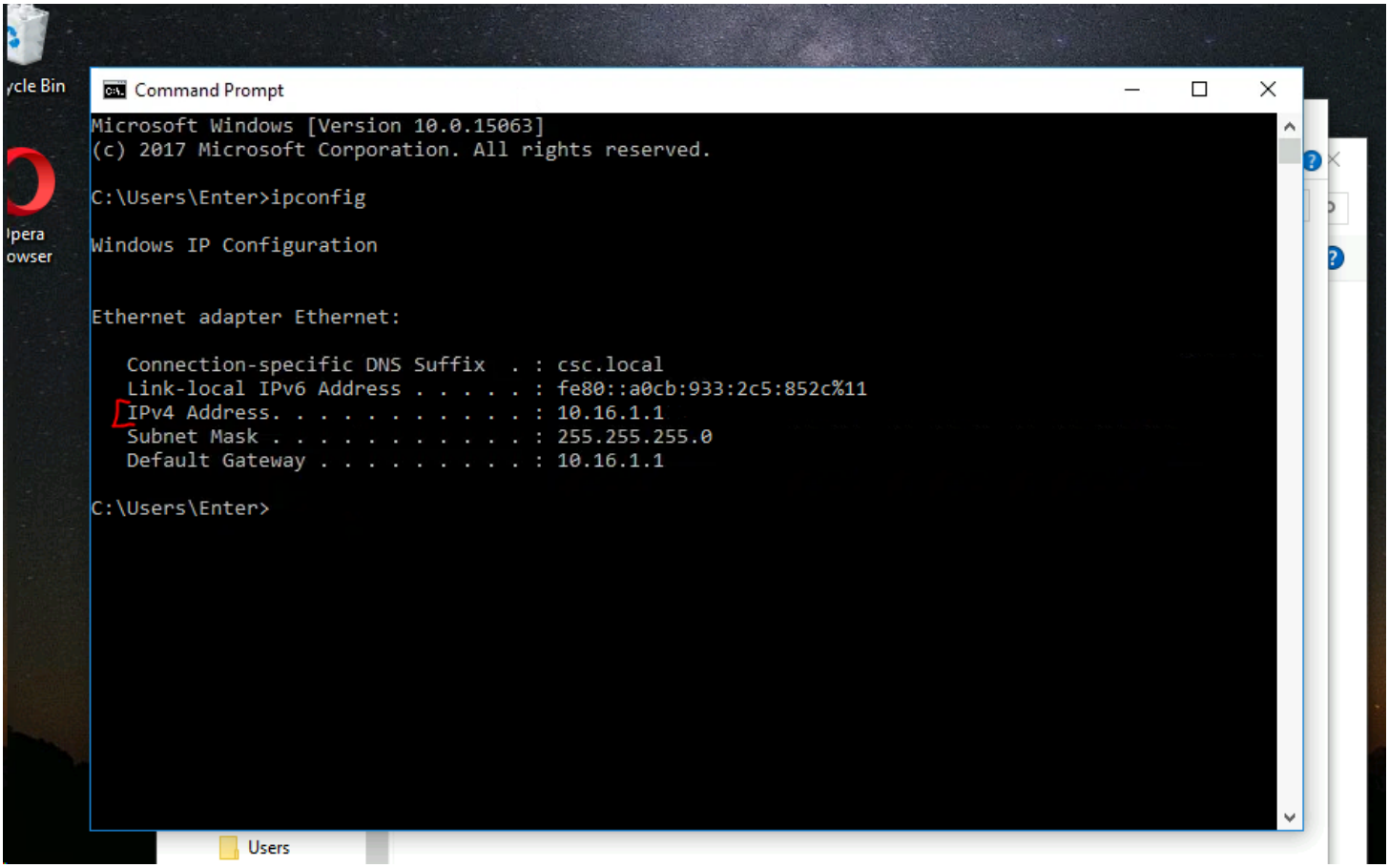
- PacketSend

Answers

- Which *protocol* are the malicious packets using
  - UDP
- What *port* are the packets targeting
  - 2025
- What is text/ASCII *payload* of the malicious packet (data segment)
  - "0x7E9 Was Here..."

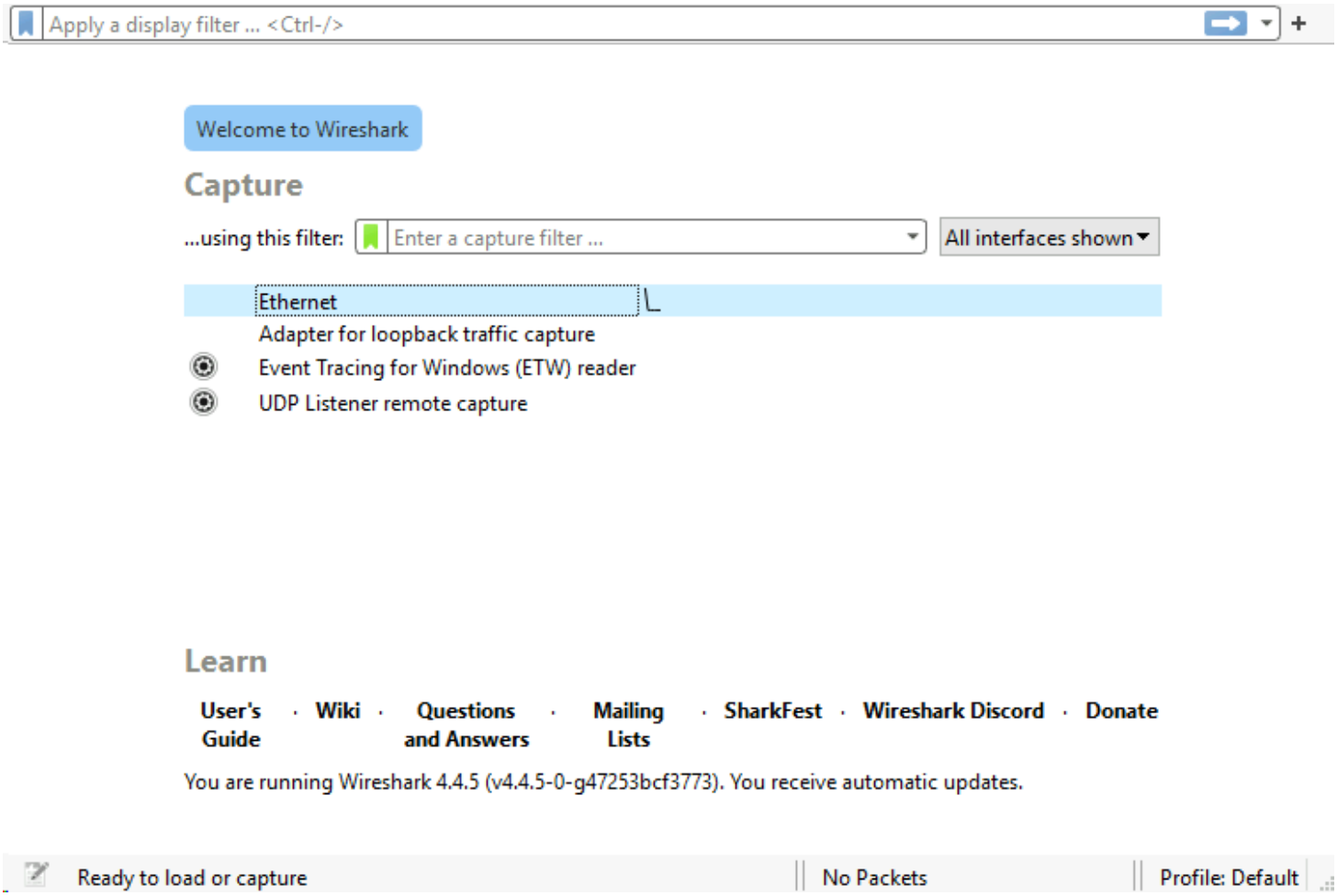
Walkthrough

1. Log into the Winodws VDI machine
2. Open a command prompt window and enter *ipconfig*

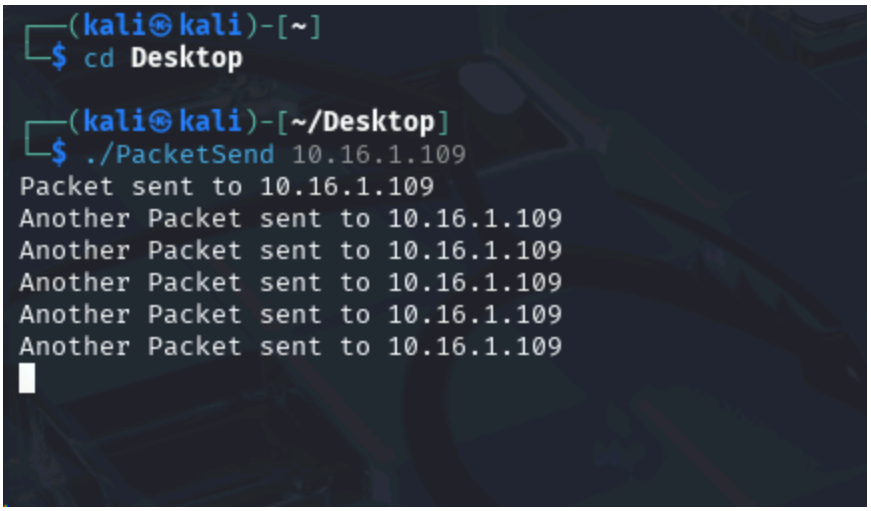


    1. Note down the Ipv4 address that was provided

3. Open Wireshark on Windows, Double click on *Ethernet* to view all packets

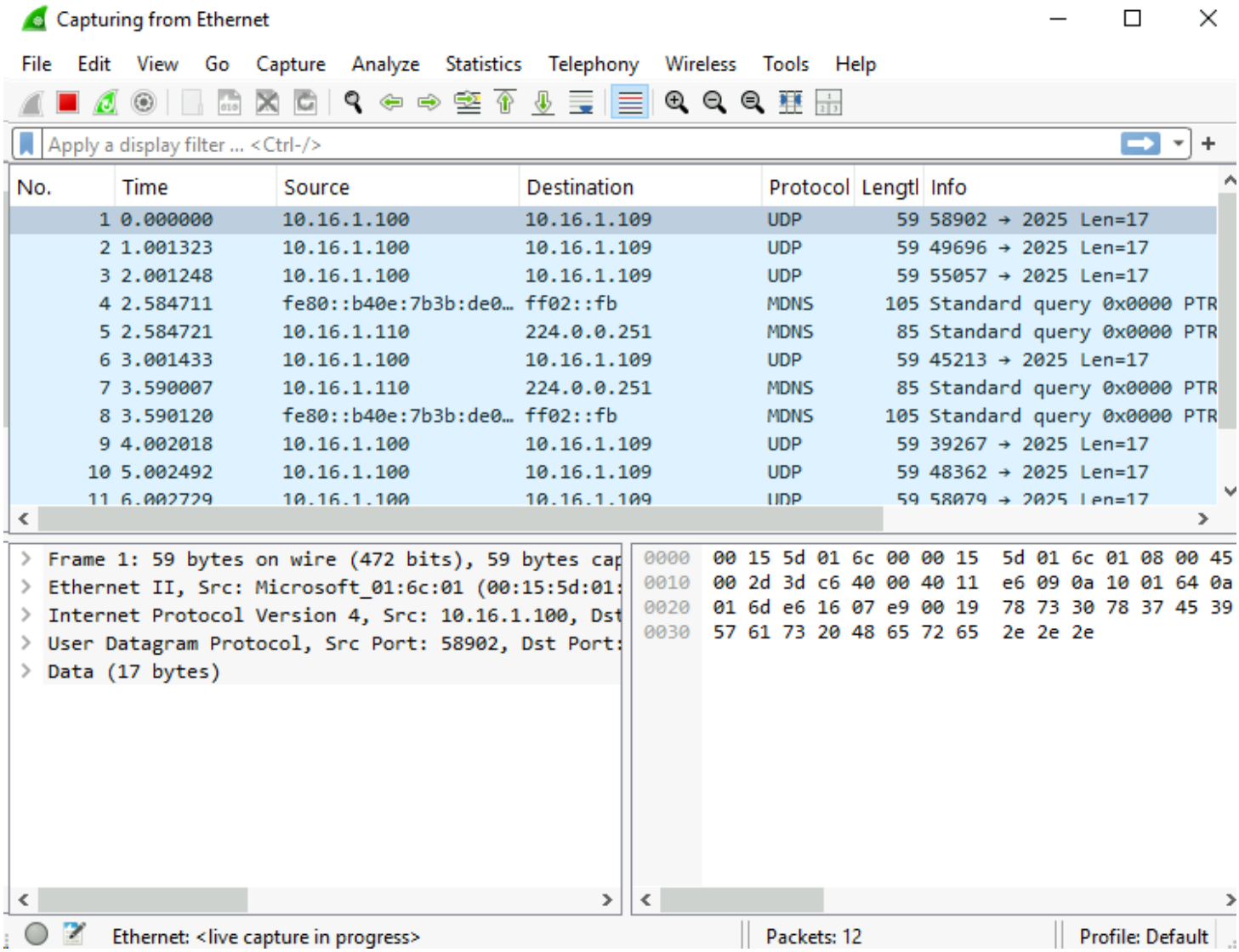


4. Log into the linux machine and run the *PacketSend* file with the windows machine IP address

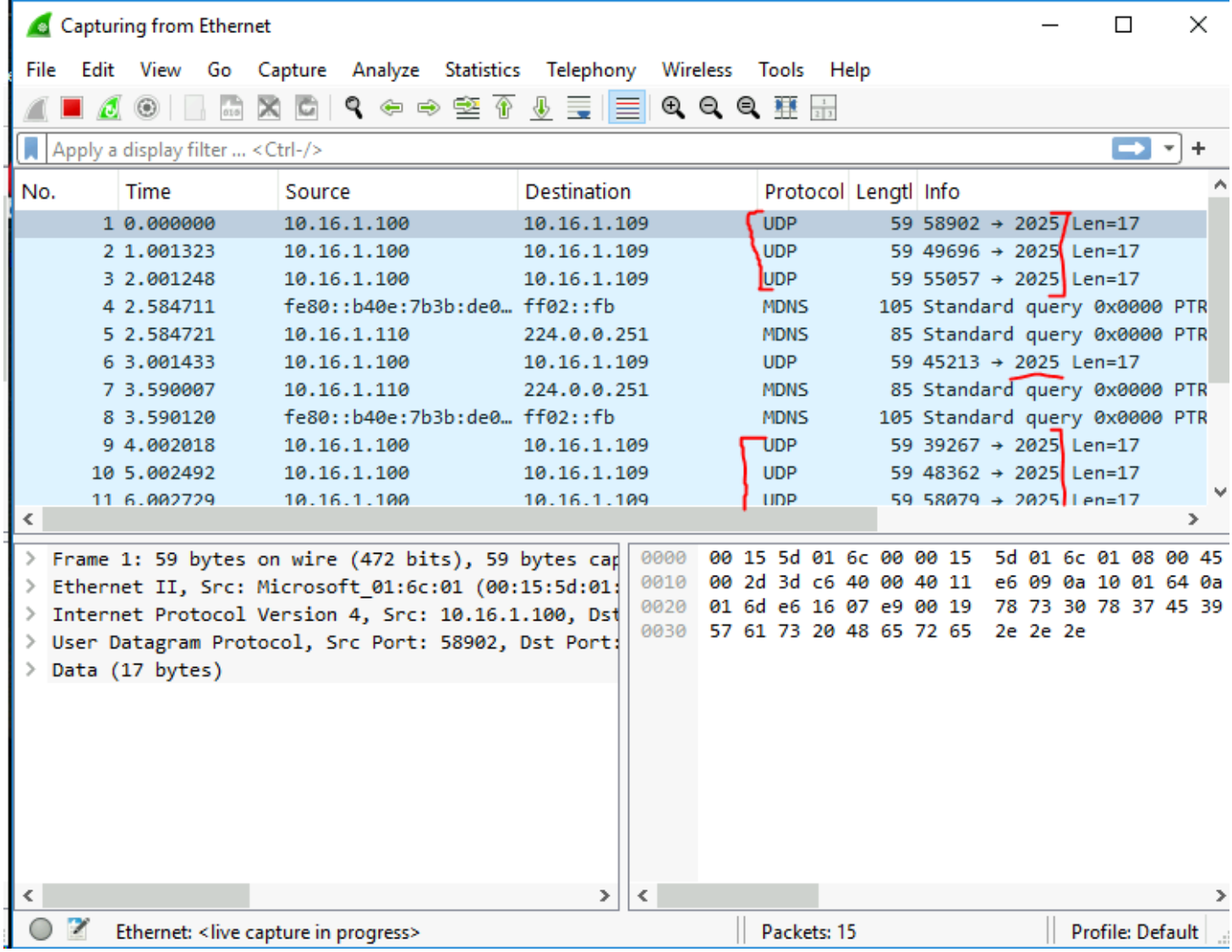


5. Return to the Windows machine to start the packet analysis

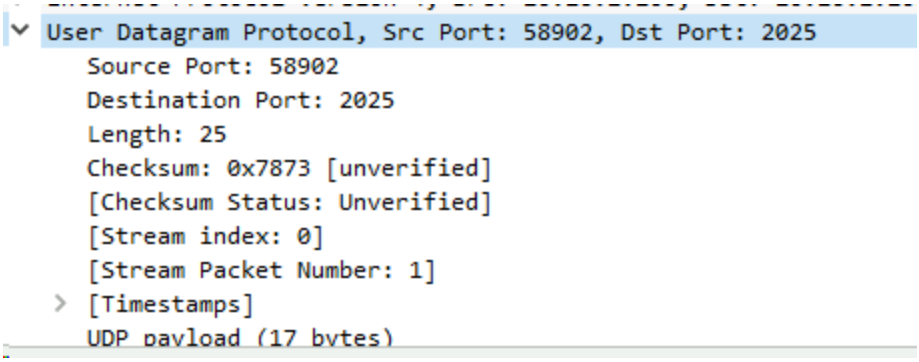
6. Packets should now be coming in from the Attacker machine



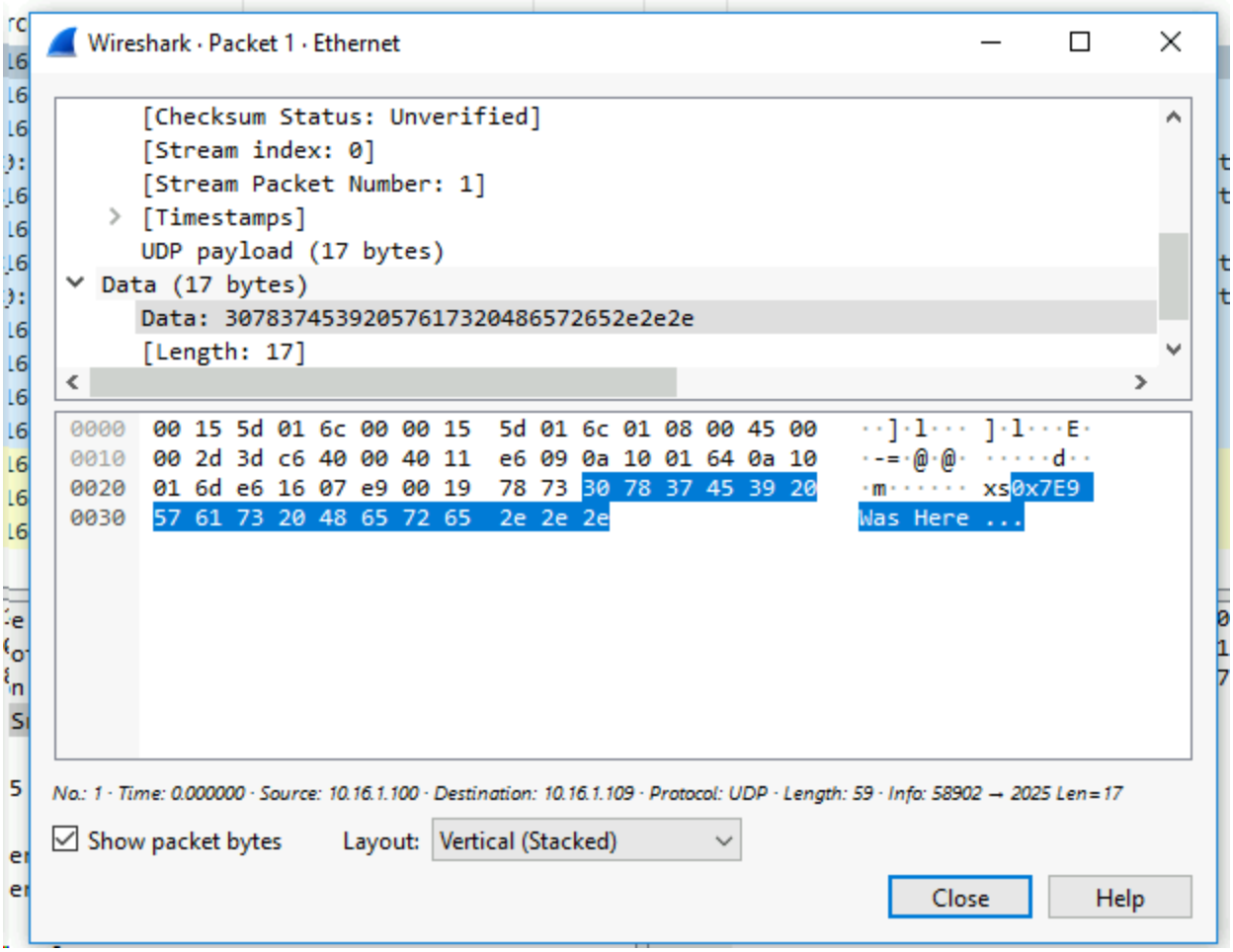
7. Notice the Protocol is **UDP** under the protocol column, and that the target port is **2025** in the info column



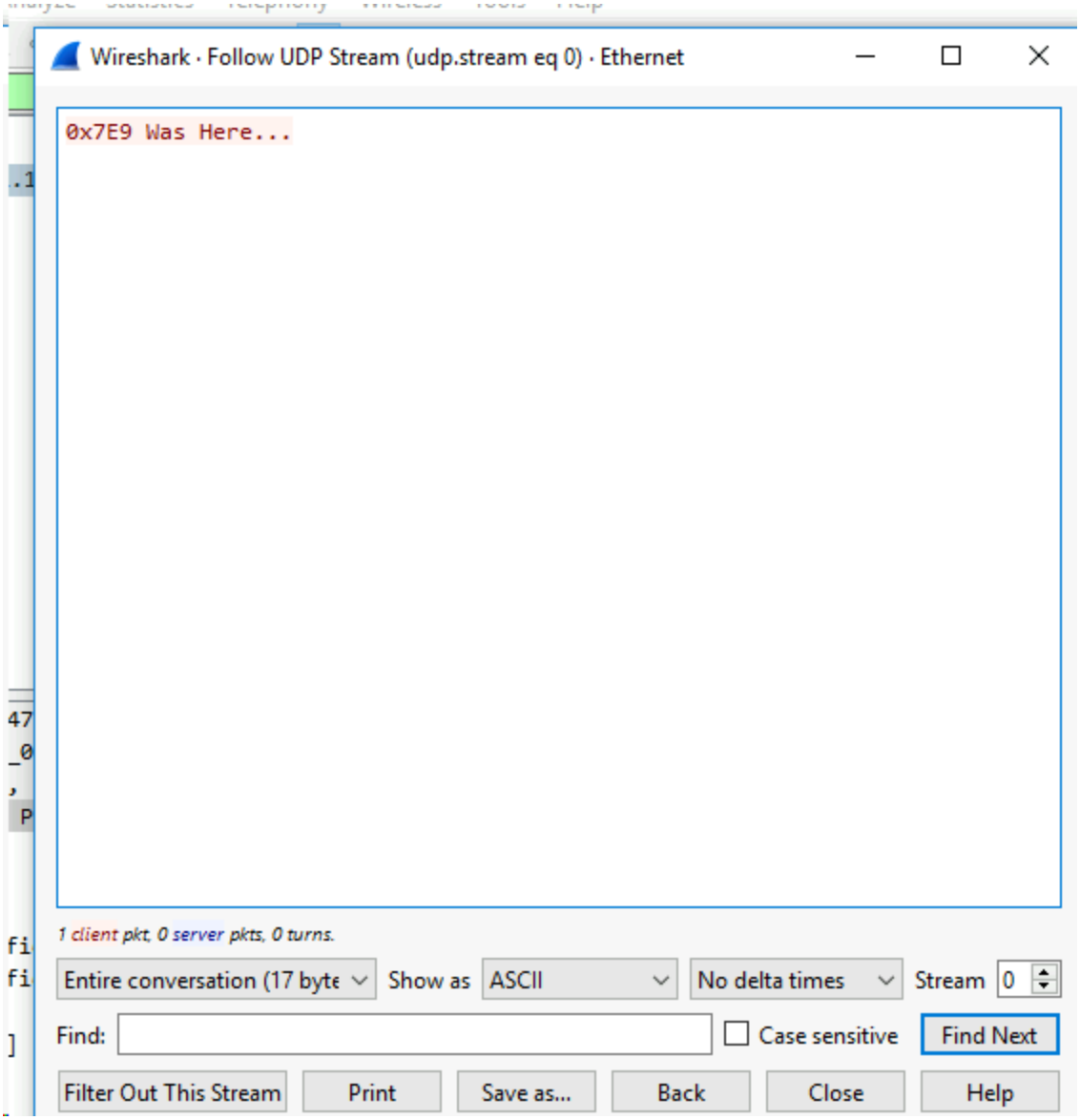
1. A more comprehensive breakdown is found below



8. To view the ASCII contents **Either** double click on any UDP packet from the attacking machine



9. **OR** right click on any UDP packet from the attacker machine and "*Follow UDP Stream*"



10. It is highly recommended to spend some time reverse engineering this program! As it uses C sockets which are really cool!