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..."

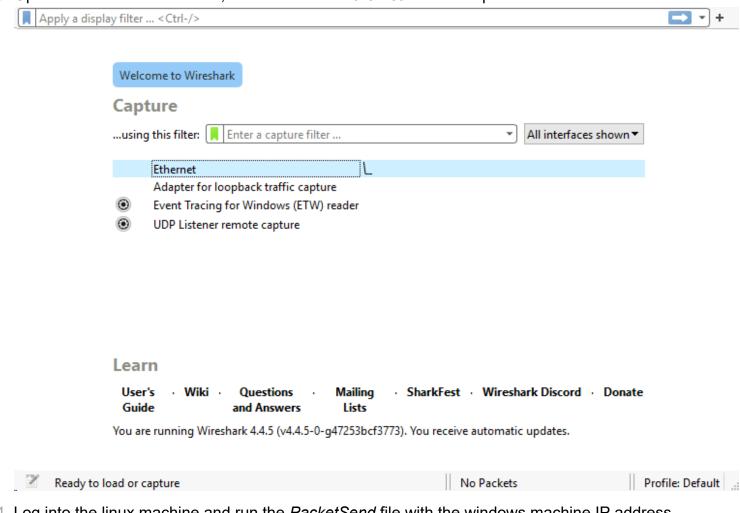
Walkthrough

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

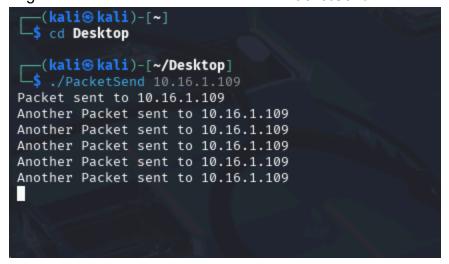
```
cle Bin
                                                                                                 Command Prompt
       Microsoft Windows [Version 10.0.15063]
       (c) 2017 Microsoft Corporation. All rights reserved.
       C:\Users\Enter>ipconfig
pera
      Windows IP Configuration
owser
       Ethernet adapter Ethernet:
         Connection-specific DNS Suffix . : csc.local
         Link-local IPv6 Address . . . . . : fe80::a0cb:933:2c5:852c%11
        IPv4 Address. . . . . . . . . . : 10.16.1.1
         Subnet Mask . . . . . . . . . : 255.255.255.0
         Default Gateway . . . . . . . : 10.16.1.1
       C:\Users\Enter>
```

1. Note down the Ipv4 address that was provided

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

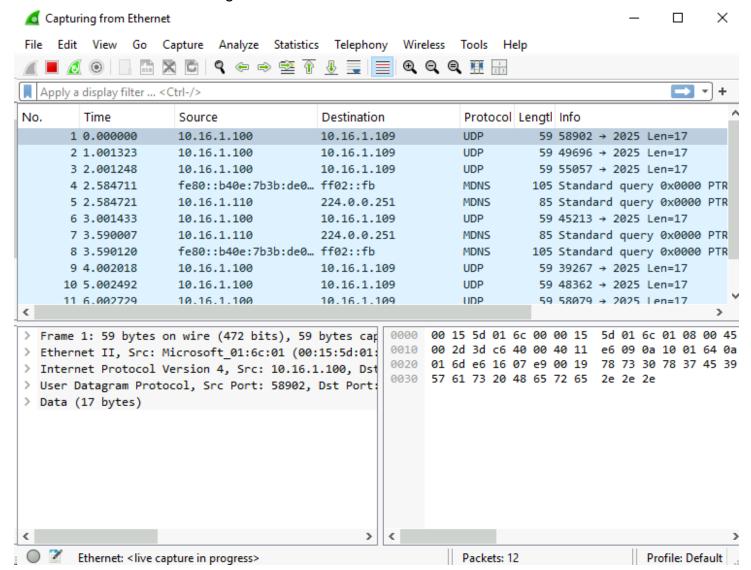


4. Log into the linux machine and run the PacketSend file with the windows machine IP address

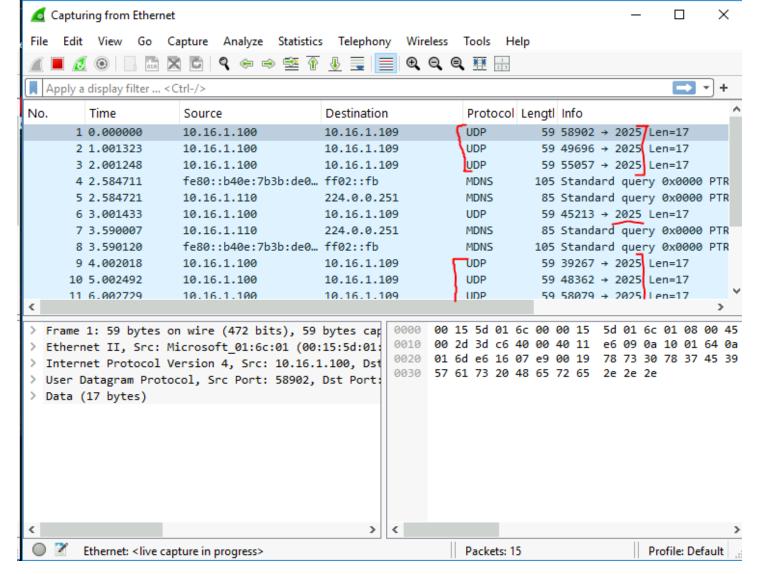


5. Return to the Windows machine to start the packet analysis

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



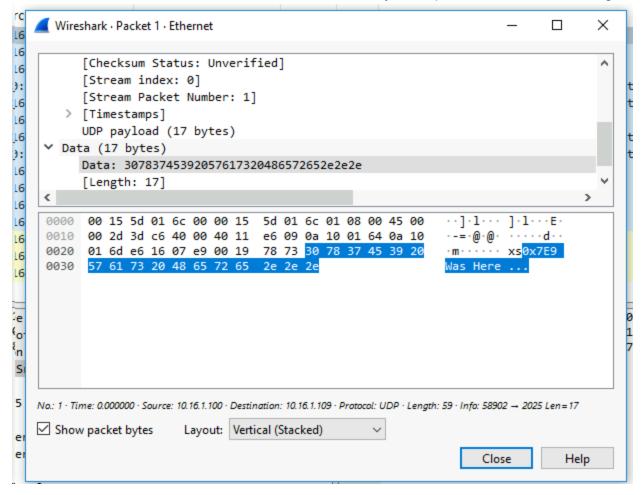
7. Notice the Protocol is **UDP** under the protocol column, and that the target port is **2025** in the info column



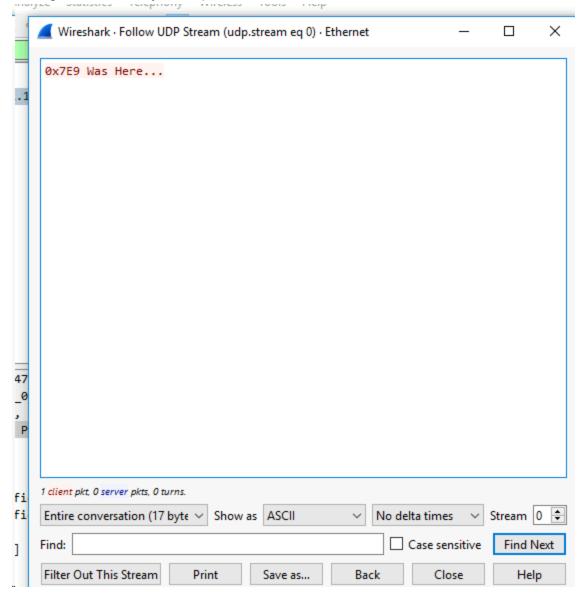
1. A more comprehensive breakdown is found below

```
V User Datagram Protocol, Src Port: 58902, Dst Port: 2025
    Source Port: 58902
    Destination Port: 2025
    Length: 25
    Checksum: 0x7873 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 0]
    [Stream Packet Number: 1]
> [Timestamps]
    UDP payload (17 bytes)
```

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!