

Lab 1 -- Using Wireshark to look at ICMP packets

due 9/12And be ready for a quiz in lab on 9/13

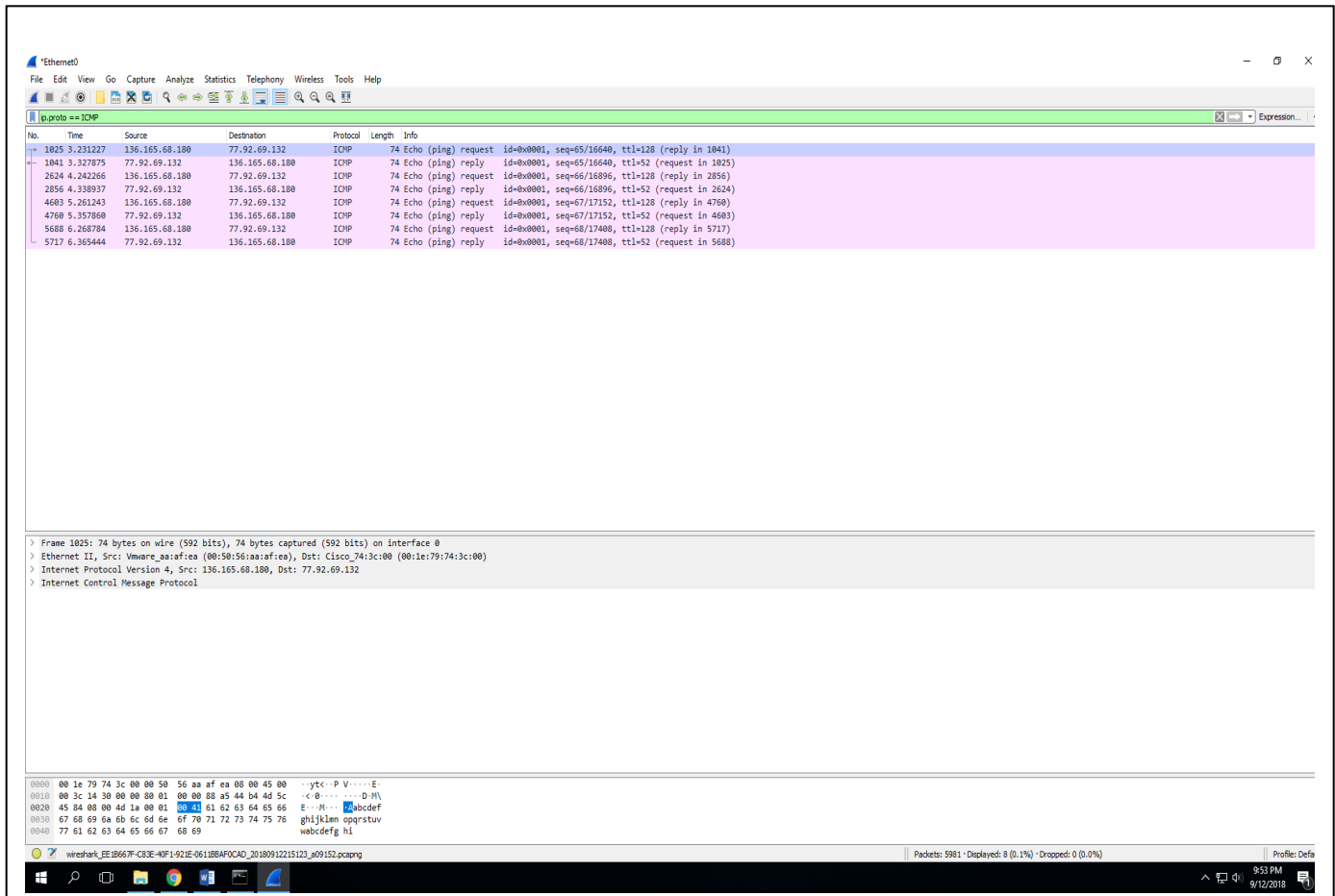
1. Access the Virtual Lab through Horizon Client
2. Bring up a command prompt
3. Type in the next command, **but don't hit enter** yet (If you do accidentally hit enter, then you will not get the DNS packets in the sniff)

ping www.guimp.com

4. Don't close the window But bring up Wireshark and start listening on the Ethernet interface
5. **Now** switch back to **cmd prompt** and hit enter to ping the website
6. **Quickly** go back to Wireshark and **stop the sniff** and **save it** as

Lab1-section#-yourname-Windows_icmp.pcap on your desktop

7. Now, explore the sniff capture and apply a filter to only show the packets with the ICMP protocol : ip.proto == ICMP
8. Screenshot the filtered packet results and place the picture in here :



9. Now let's explore the first ICMP packet in depth. Still in Wireshark, highlight one of the ICMP packets where you are the source IP. Look in the detail section (in the middle), and answer the following:

What is the Frame size in bytes ? **74**

What is the **actual** source MAC? **00:50:56:aa:af:ea**

What does shark identify as the "vendor" portion of the source MAC? **Vmware_aa:af:ea**

What is the **actual** destination MAC? **00:1e:79:74:3c:00**

What does shark identify as the "vendor" portion of the destination MAC? **Cisco_74:3c:00**

Expand the Internet Control Message Protocol header.

What is the ICMP Type number ? **8** and associated meaning ? **(Echo(ping)request)**

Expand the Internet Protocol header.

What is the value of **Time to live** ? **128**

Describe the payload data : **it's a 32 bytes and the alphabets abcdefghijklmn
opqrstuvwxyz abcdefg hi**

10. Now let's explore the ICMP packet response in depth. Highlight the ICMP packet where you are the destination IP. Look in the detail section (in the middle), and answer the following:

Expand the Internet Control Message Protocol header.

What is the ICMP Type number ? **0** and associated meaning ? **(Echo(ping)reply)**

Expand the Internet Protocol header.

What is the value of **Time to live** ? **52**

Did the payload data change? **no**

11. Save this updated Word file with your responses as

Lab1-section#-yourname-Windows_icmp.docx on your desktop

12. Attach the the pcap file from Step 6, and your updated docx file to the Assignment