**2021-2022 FALL CS408 HOMEWORK 2**

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**A screenshot of a computer

Description automatically generated1)** Answer is 188.184.21.108. I filtered the result by typing http and then I looked at the content of the data which is in html format to find the correct result. As an implication, we can learn the general location of a website by checking its IP address. Like here:

**2)** Source port: 80, Destination port: 60536. After I clicked on the correct row, I checked the line starting with TCP. It was written as src and dst ports. Port 80 is used for HTTP to receive html/data from web servers.

Graphical user interface

Description automatically generated

**3)** Answer is 93.184.216.34. I filtered the results typing icmp. There were 4 requests and 4 replies for example.com domain.

**4)** IP of my default gateway is 10.50.0.1 as shown both in ipconfig command and in icmp results. It is the exit point for packets to be send outside.

**5)** Type of the request is 8 and the type of the reply is 0. I expanded the ICMP line, and it was written in the first row, they are used to test the connectivity. The time difference between request and reply is important for fast connection, the lower the better especially for gamers :) I searched on the Internet, and I found out that there are 18 ICMP message types like Redirect (5) and Time Exceeded(11)

**6)** The length is 32. I found it under ICMP->Data section.

**7)** The filter is “ip.dst == 192.168.19.05 and tcp.port == 5353”. However, it does not show any packets in my pcapng file.

**8)** It is 10.50.159.189. I looked at the first ARP request packet, and it was written under the ARP (request) part. I learned that target IP address is used for hosts to share a common prefix on the Net.

**9)** The value shown under HTTP part is Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/95.0.4638.69 Safari/537.36. As it is written there, my operating system is Windows 64 bit and I use Chrome. As an implication, we can identify the operating system and platform details using this line, the common format is:

Mozilla/<version> (<system-information>) <platform> (<platform-details>)

<extensions>

**10)** The code is 404 Note Found. It is written in the first line of the HTTP info of the packet. Because there is no such extension as /cs408 at Cern website and the codes in 4xx format specify the client error. When there is no problem, the code is 200 OK like in <http://info.cern.ch/> url.