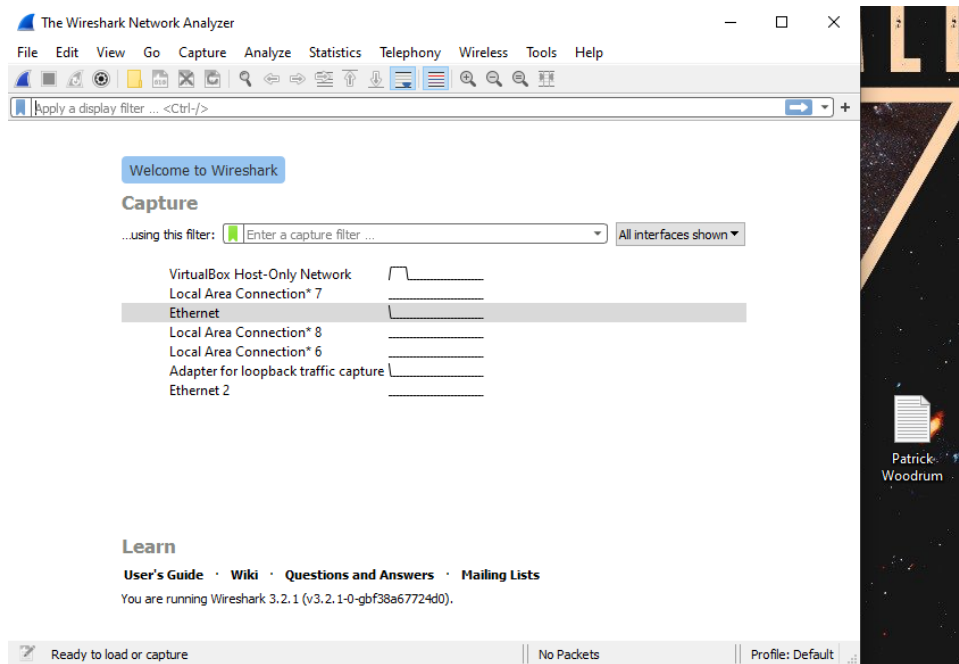


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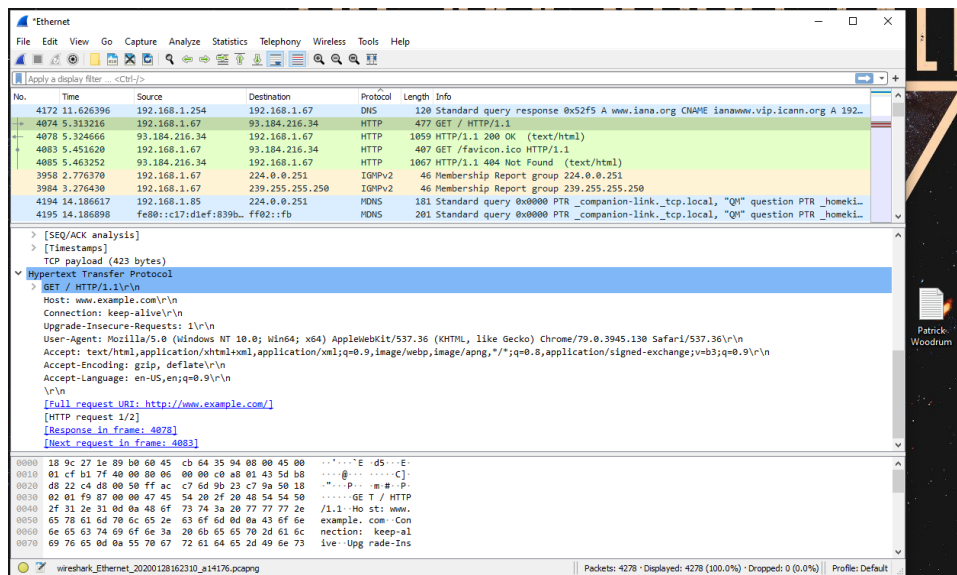
Lab Task 1**1.1 - Install Wireshark**

After navigating to <http://www.wireshark.org>, the program was successfully installed and set up.



1.2 - Trace HTTP

Wireshark was then set up using the capture filter through my ethernet port. I cleared my browsing cache on Google Chrome to be sure everything ran smoothly. Following this, I navigated to www.example.com with the capture turned on and received the following information after finding the HTTP Protocol.



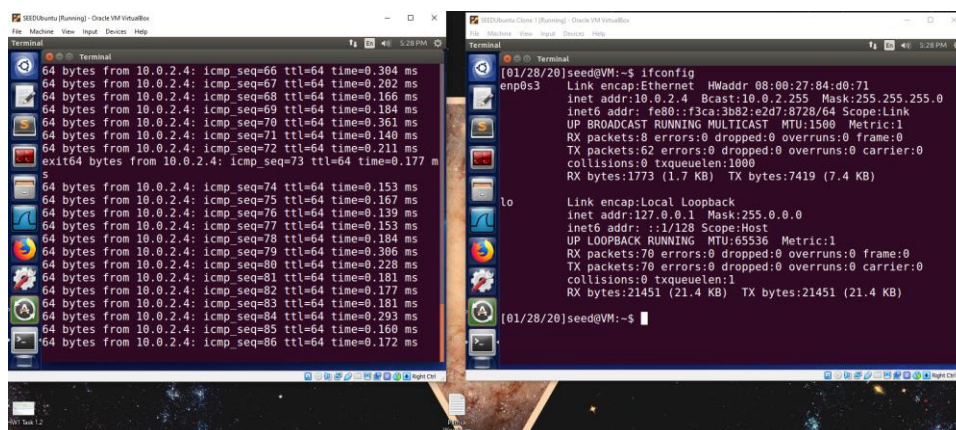
1.3 - Trace Decode

1. The full URL of the object requested by the browser is <http://www.example.com/>
2. My browser is using HTTP Request Version: HTTP/1.1 and the destination web server is using HTTP/1.1 as well.
3. This HTTP connection is persistent. This is known via the “Connection: keep-alive\r\n” line. All HTTP requests are labelled as keep-alive and are therefore persistent.
4. The browser used to send the request is Google Chrome version 79.0.3945.130. This is found beside “User-Agent”.
5. The web browser was running on Windows 10 64-bit and is shown under User-Agent as (Windows NT 10.0; Win64; x64).
6. The kind of web server that answered the request was ECS (agb/5338)\r\n and was found beside “Server:” in the HTTP response packet
7. The server produced a 404 Not Found error when requesting from the server but the file data was successfully transferred as the HTML type, found under the first line after using the dropdown arrow for “Line-based text data: text/html”

Lab Task 2

2.1 - Deploy Two Virtual Machines

After successfully cloning my first VM, I booted both at the same time and used ifconfig and the ping command to see each respective address and to test the connection between the two.



2.2 - Apache Web Server

1. My Apache web server is listening on port 80. This was found in the ports.conf file in the installation directory for Apache2.
2. Upon entering <https://localhost:80>, the browser presented me with a “Secure Connection Failed” error message stating that “the page cannot be shown because the authenticity of the received data could not be verified.” Based on this result, it appears that the default server configuration does not support HTTPS protocol.
3. After finding the ip address of VM A to be 10.0.2.15, I successfully accessed the server on VM B. Following this, I navigated to /var/log/apache2/access.log and opened the access log to see that VM B did in fact make a connection using the ip address 10.0.2.4.

