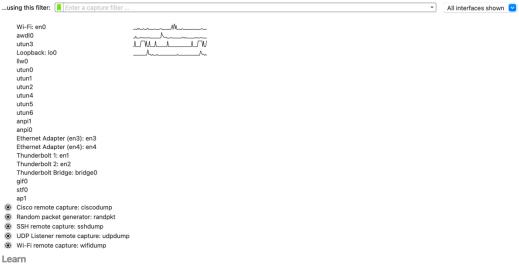


Welcome to Wireshark

## Capture



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You are running Wireshark 4.0.8 (v4.0.8-0-g81696bb74857). You receive automatic updates.

Task 3

Packets: 14279 · Displayed: 14279 (100.0%) Profile: Default

Task 4

○ ✓ Wi-Fi: en0: live capture in progress>





Congratulations! You've downloaded the first Wireshark lab file!

Click to go forward, hold to see history



Task5. Highlight in green the HTTP message exchange with gaia.cs.umass.edu on the image in your Word document.

1114 204.743781 10.0.0.86 128.119.245.12 HTTP 644 GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1

GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1

Host: gaia.cs.umass.edu Connection: keep-alive Cache-Control: max-age=0 Upgrade-Insecure-Requests: 1

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10 15 7) AppleWebKit/537.36 (KHTML,

like Gecko) Chrome/116.0.0.0 Safari/537.36

Accept:

text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,\*/\*;

q=0.8,application/signed-exchange;v=b3;q=0.7

Accept-Encoding: gzip, deflate Accept-Language: en-US.en;q=0.9 If-None-Match: "51-604d2ac658c62"

If-Modified-Since: Fri, 08 Sep 2023 05:59:02 GMT

HTTP/1.1 304 Not Modified

Date: Fri, 08 Sep 2023 17:26:58 GMT

Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod\_perl/2.0.11 Perl/v5.16.3

Connection: Keep-Alive

Keep-Alive: timeout=5, max=100 ETag: "51-604d2ac658c62"

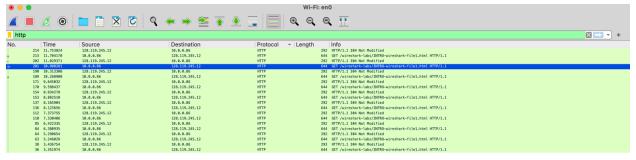
Packets: 6786 · Displayed: 20 (0.3%)

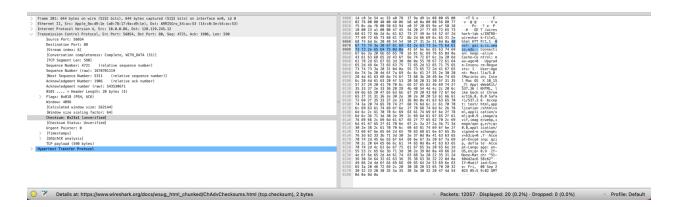
Profile: Default

Task 6

O Mypertext Transfer Protocol: Protocol







Task 8

Wireshark, a program used for monitoring computer networks, can sometimes be misused if it falls into the wrong hands. It has the potential to be used for malicious purposes, such as spying on visited websites and capturing IDs and passwords. This could lead to the compromise of sensitive information. In today's world, where many businesses operate online and people often work remotely, if individuals with malicious intent use a program like Wireshark to monitor browsing habits and interactions, it can negatively impact businesses on a global scale.

While Wireshark can be a helpful tool, it also has the capacity to cause trouble. For instance, it can eavesdrop on network conversations, steal private data like passwords, and even manipulate data in transit. Malicious actors can also overload a network with excessive traffic to

disrupt its functioning. In addition, they can exploit Wireshark to identify vulnerabilities in a network for future attacks. Public Wi-Fi networks are particularly vulnerable to privacy invasions when Wireshark is used for unauthorized surveillance.

I believe that Wireshark should not be freely accessible to the general public because the information it can extract has the potential to harm individuals. Wireshark itself is a critical program for ensuring citizens' safety when used correctly and responsibly, but it should only be entrusted to individuals with good intentions. However, providing access to Wireshark for educational purposes in schools is of paramount importance. It helps students, network experts, and security professionals learn about networks and how to safeguard them effectively.

Professionals employ Wireshark for beneficial purposes. Yet, when Wireshark is readily available to everyone, it becomes easier for malicious individuals to employ it for nefarious activities. While there are laws in place to penalize those who misuse it, enforcement may not always deter malicious use, so only trusted professionals should be able to use Wireshark and teach wire shark for further enhancement of the program to be used for the safety of the citizens.