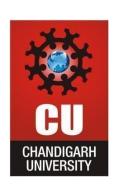




# CHANDIGARH UNIVERSITY UNIVERSITY INSTITUTE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Submitted By: Sandeep Kumar Submitted To: Renuka Ratten Maa'm		
Subject Name	WEB AND MOBIL	LE SECURITY LAB
Subject Code	20CSP-338	
Branch	CSE	
Semester	5th	





## **LAB INDEX**

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SECTION: 20BCS WM\_607-B

SUBJECT NAME: Web and Mobile Security Lab

SUBJECT CODE: 20CSP-338





## EXPERIMENT NO. 1

#### Aim:

Identity Http packet on Wireshark.

#### • Objective:

To analyze Http traffic

#### • Software/Hardware Requirements:

Windows 7 & above version.

#### • Tools to be used:

- 1. Wireshark Packet Sniffer and Packet Capture Library
- 2. Microsoft Word.
- 3. Win Zip as necessary

#### • Introduction:

Wireshark is a software tool used to monitor the network traffic through a network interface. It is the most widely used network monitoring tool today. Wireshark is loved equally by system administrators, network engineers, network enthusiasts, network security professionals and black hat hackers. The extent of its popularity is such, that experience with Wireshark is considered as a valuable/essential trait in a computer network in related professional.

There are many reasons why Wireshark is so popular:

- 1. It has a great GUI as well as a conventional CLI(T Shark).
- 2. It offers network monitoring on almost all types of network standards (ethernet, wlan, Bluetooth etc)
- 3. It is open-source with a large community of backers and developers.
- 4. All the necessary components for monitoring, analyzing and documenting the network traffic are present. It is free to use.

#### • <u>Steps/Method/Coding:</u>

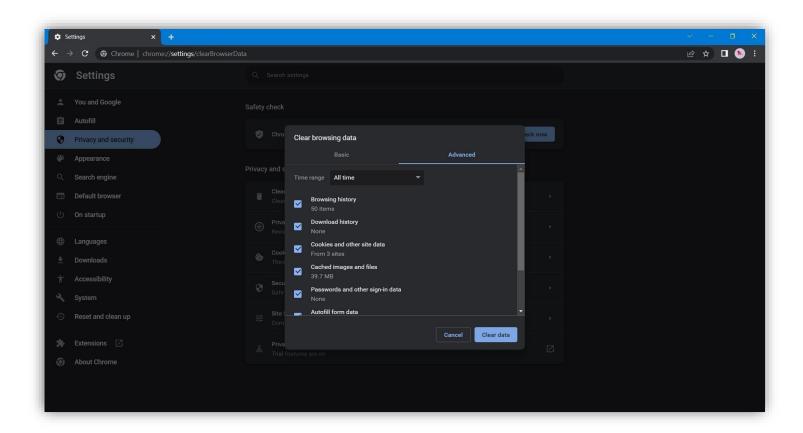
- 1. Install Wireshark.
- 2. Open your Internet browser.
- 3. Clear your browser cache.
- 4. Open Wireshark
- 5. Click on "Capture > Interfaces". A pop-up window will display.
- 6. You'll want to capture traffic that goes through your ethernet driver. Click on the Start button to capture traffic via this interface.
- 7. Visit the URL that you wanted to capture the traffic from.





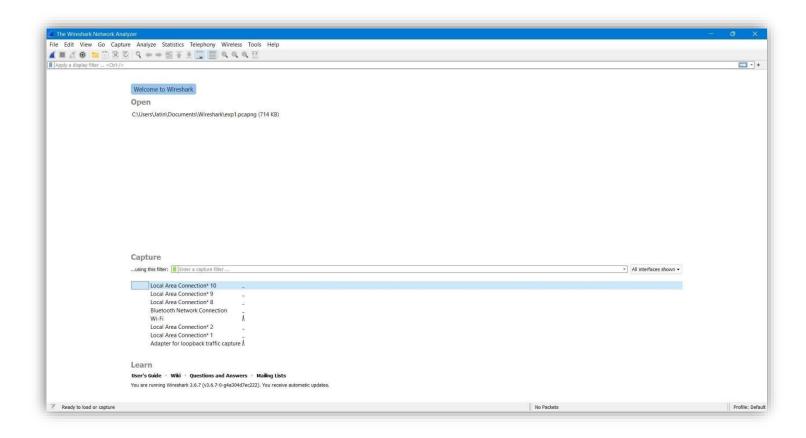
- 8. Go back to your Wireshark screen and press Ctrl + E to stop capturing.
- 9. After the traffic capture is stopped, please save the captured traffic into a \*.pcap format file and attach it to your support ticket.

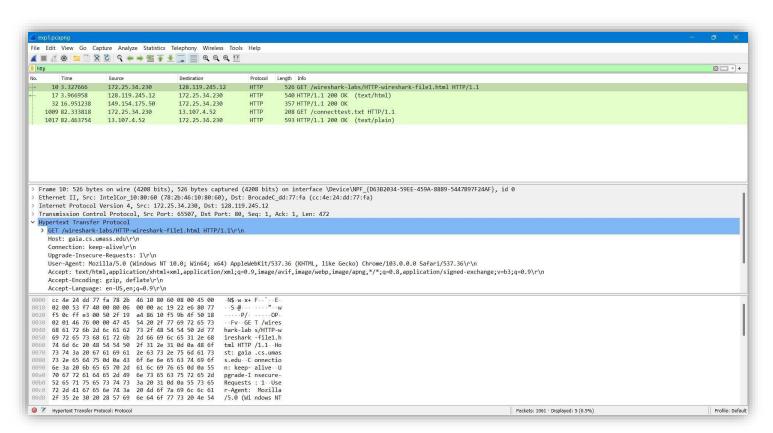
### • OUTPUT:





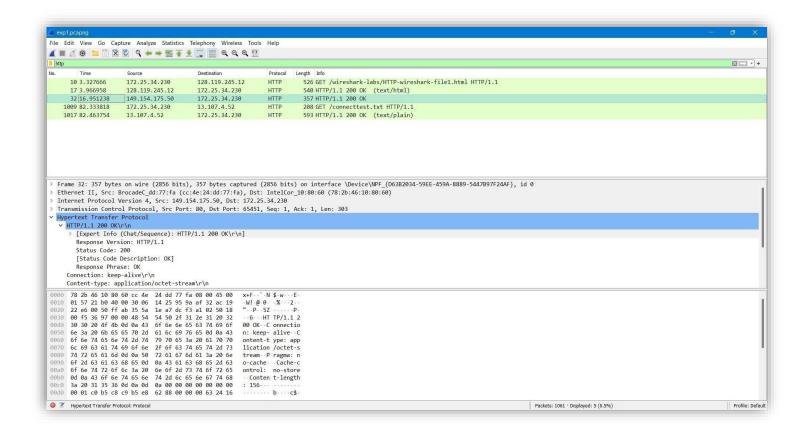


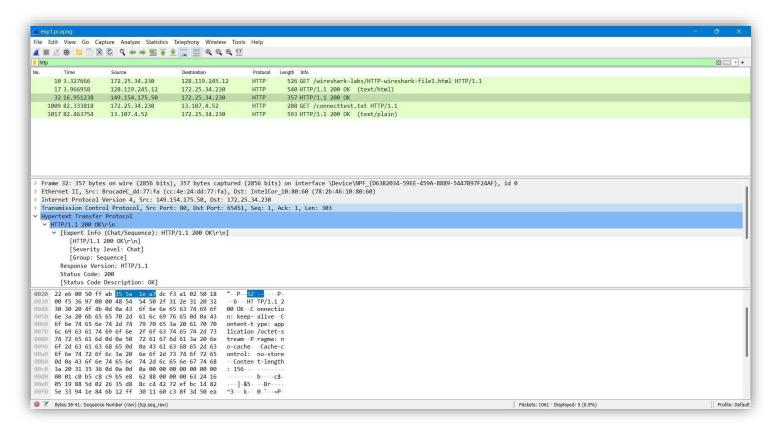






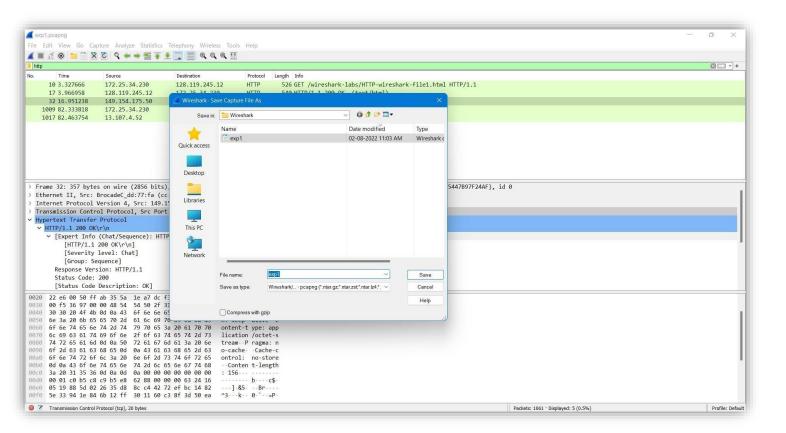












#### Learning Outcomes:

- 1. Identify requests (from client) and response packets.
- 2. Find HTTP version, response code/phrase, requested file (including size).
- 3. Observe single small file (e.g., simple html file) request/response behaviour and the request/response behaviour for a file that has already been received.
- 4. Observe how a larger file is sent in multiple segments '
- 5. Observe multi-file (e.g., web page with image) request/response behaviour. Observe request/response behaviour for a page that needs authentication.



