# Wireshark Packet Capture Report - Credential Leak Analysis

## 1. Q Objective:

To analyze HTTP network traffic using Wireshark and identify sensitive information (username/password) transmitted in plain text, useful for SOC analyst interviews.

### 2. Lab Setup:

• **OS:** macOS (M2)

Target Website: testphp.vulnweb.com

Browser Used: Firefox

Action Performed: Opened login page to observe packet flow

Wireshark Filter: http

## 3. Captured HTTP Request (GET):

**GET /login.php HTTP/1.1** 

Host: testphp.vulnweb.com

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15)

Accept: text/html

Connection: keep-alive

## 4. Captured HTTP Response (200 OK):

HTTP/1.1 200 OK Server: nginx/1.19.0

Content-Type: text/html Content-Encoding: gzip

Inside the response body:

If you are already registered please enter your login information below:

<form method="post" action="userinfo.php">

Username: test Password: test



## 5. **A** Key Observation:

- The login form transmits credentials without encryption.
- Vulnerable to Man-in-the-Middle (MITM) attacks on public/shared

networks.

## 6. Conclusion:

This capture demonstrates a **real-world security gap** — unencrypted login forms. It shows ability to:

- Use Wireshark to analyze real traffic
- Filter & extract HTTP data
- Understand implications of insecure data transmission

#### Attachments:

- Screenshot of HTTP POST packet
- Full TCP Stream view



