



Code

Issues

Pull requests

Actions

Projects

Wiki

Security



DF_Lab / Exp_3_Wire Shark.md



Bhuvaneshwar-Naidu Update Exp_3_Wire Shark.md

d6535de · 1 minute ago



87 lines (63 loc) · 2.66 KB

Preview

Code

Blame



Raw



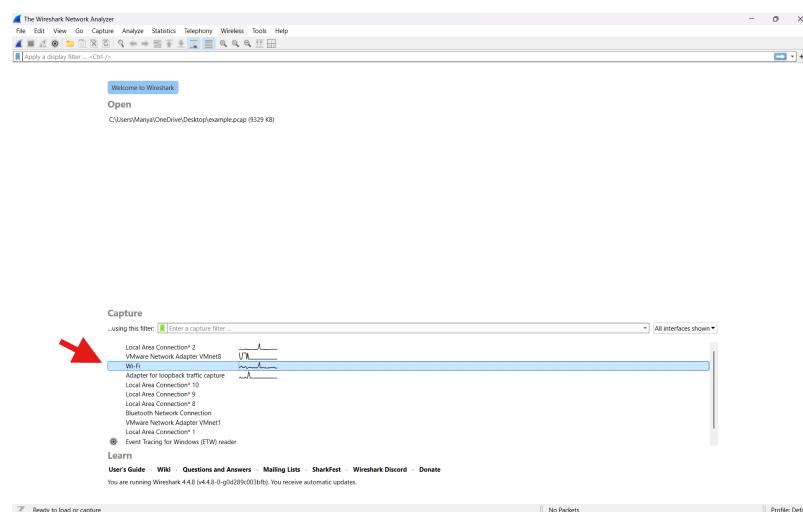
Ex.No.3 Wireshark – Network Packet Capture and Analysis Tool

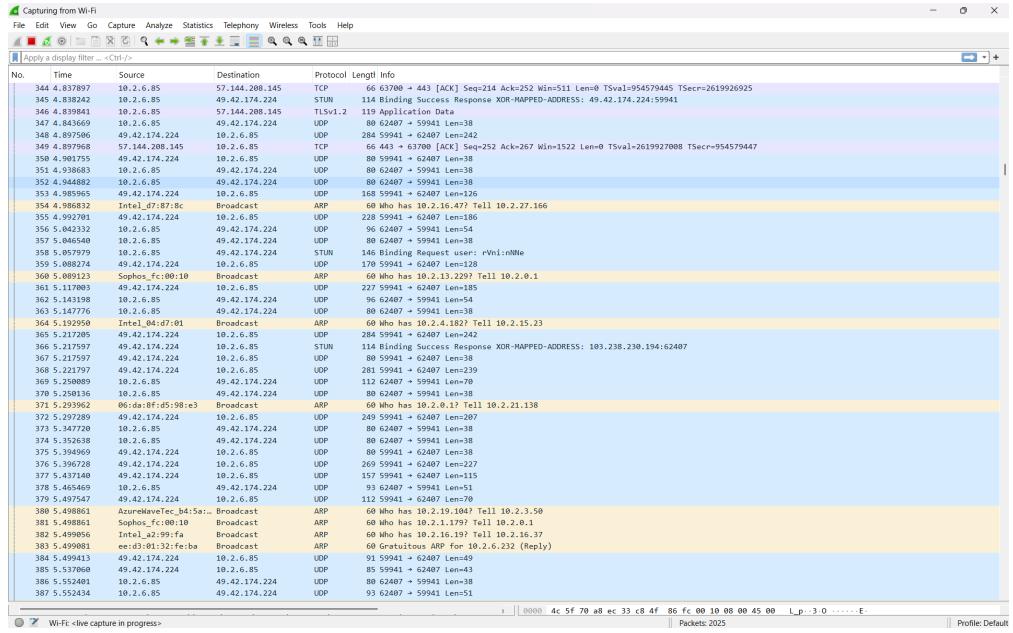
Aim

To capture plaintext **login credentials** transmitted over HTTP using **Wireshark**, and analyze how insecure protocols expose sensitive information.

Step 1: Start Capturing Packets

- Open **Wireshark** in your Windows/Linux machine.
- Select the active network interface (e.g., **Wi-Fi**).
- Click the **blue shark fin** icon to begin capturing packets.





Step 2: Generate Login Traffic

- Open a browser and navigate to a test login page (e.g., <http://testphp.vulnweb.com/login.php>).
- Enter dummy credentials. For this example:

Username: Tonystark_44

Password: tony@1234

- Submit the form.
- Even if the login fails, the credentials are **transmitted** in the request.

Warning: This is not a real shop. This is an example PHP application, which is intentionally vulnerable to web attacks. It is intended to help you test Acunetix. It also helps you understand how developer errors and bad configuration may let someone break into your website. You can use it to test other tools and your manual hacking skills as well. Tip: Look for potential SQL Injections, Cross-site Scripting (XSS), and Cross-site Request Forgery (CSRF), and more.

Step 3: Stop Capture & Filter HTTP Traffic

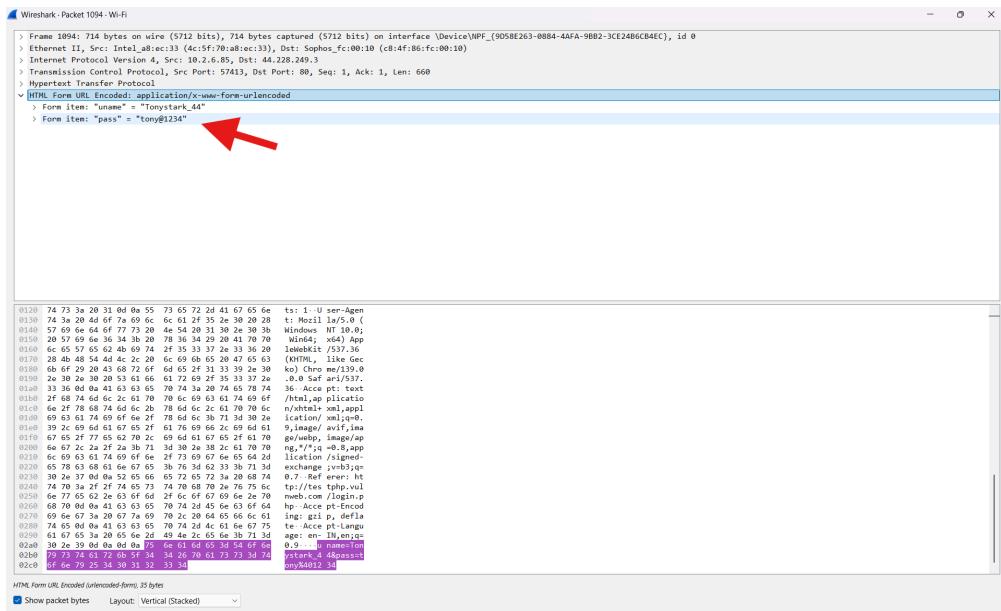
- Stop the capture (click the red square button).
- In the display filter bar, type the following filter and press Enter:

No.	Time	Source	Destination	Protocol	Length	Info
1094	15:15:48.13	10.2.6.86	44.226.249.3	HTTP	714	POST /userinfo.php HTTP/1.1 (application/x-www-form-urlencoded)

Step 4: Inspect the POST Packet

- From the filtered list, select the POST packet.
- Expand the following sections in the Packet Details Pane:
 - -> Hypertext Transfer Protocol
 - -> HTML Form URL Encoded

You will see the submitted credentials in plaintext: Form item: "uname" = "Tonystark_44"
 Form item: "pass" = "tony@1234"



Rubrics

Criteria	Mark Allotted	Mark Awarded
1. GitHub Activity & Submission Regularity	3	
2. Application of Forensic Tools & Practical Execution	3	
3. Documentation & Reporting	2	
4. Engagement, Problem-Solving & Team Collaboration	2	
Total	10	

Result

The experiment successfully captured **login credentials** transmitted via **HTTP**. This demonstrates that **HTTP is insecure**, as sensitive information is sent in **plaintext**, making it easy for attackers to intercept.