

Wireshark Sniffing Task

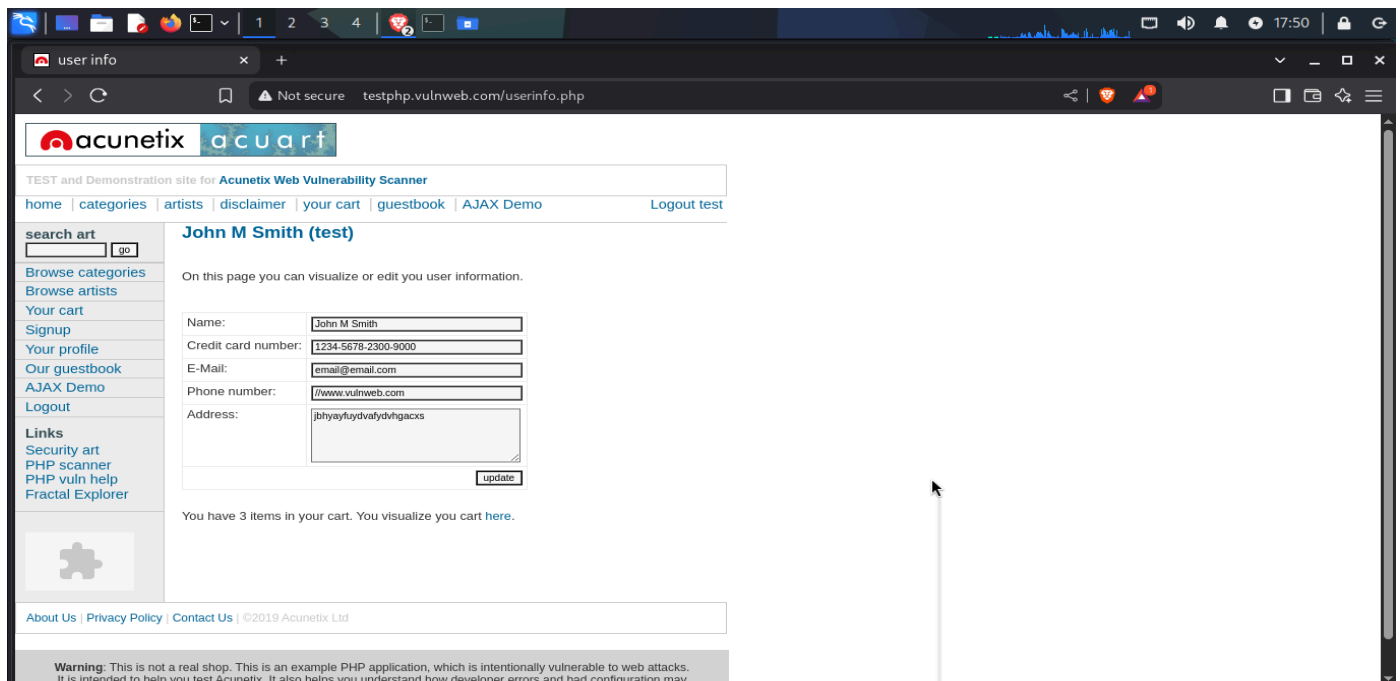
Tool Used: Wireshark

Target: Website (<http://testphp.vulnweb.com/login.php>)

Steps Performed:

- 1. Started Wireshark**
Launched Wireshark to capture network traffic.
- 2. Visited the Target Website**
Accessed the website in a browser while Wireshark was running.
- 3. Captured Packets**
Let Wireshark collect all network packets during the visit.
- 4. Analyzed Packets**
Searched through captured packets, especially looking for HTTP traffic.

(`http.request.method == "POST"`)
- 5. Found Sensitive Info**
Discovered login credentials (like username and password) being sent in plain text.



Wireshark interface showing network traffic on interface *eth0. The packet list displays several frames, including MDNS queries and Ethernet II frames. The selected packet (No. 10) is an Ethernet II frame from 192.168.1.3 to 44.228.249.3, containing an Internet Protocol Version 4 packet.

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000000	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II
2	0.100006727	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II
3	0.162160366	192.168.1.2	224.0.0.251	MDNS	152	Standard query 0x0019 PTR _googlecast._tcp.local, "QM" question PT
4	0.173481255	fe80::a83d:abff:fec...	ff02::fb	MDNS	172	Standard query 0x0019 PTR _googlecast._tcp.local, "QM" question PT
5	0.200027602	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II
6	0.300393952	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II
7	0.400317553	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II
8	0.500475493	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II
9	0.513795336	192.168.1.4	224.0.0.251	MDNS	163	Standard query 0x000b PTR _233637DE._sub._googlecast._tcp.local, "
10	0.513796248	fe80::dc90:d2ff:fe4...	ff02::fb	MDNS	123	Standard query 0x000b PTR _233637DE._sub._googlecast._tcp.local, "
11	0.000692210	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II
12	0.700317800	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II
13	0.800320530	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II
14	0.900466794	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II
15	1.000011885	zte_19:2d:35	Broadcast	0x880a	60	Ethernet II

Frame 253: 674 bytes on wire (5392 bits), 674 bytes captured (5392 bits) on interface *eth0
 Ethernet II, Src: GigaByteTech_dd:40:bc (e0:d5:5e:dd:40:bc), Dst: zte_19:2d:35:00:00:00:00
 Internet Protocol Version 4, Src: 192.168.1.3, Dst: 44.228.249.3
 0100 = Version: 4
 0101 = Header Length: 20 bytes (5)
 Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
 Total Length: 660
 Identification: 0xe658 (58968)
 010. = Flags: 0x2, Don't fragment
 ...0 0000 0000 0000 = Fragment Offset: 0
 Time to Live: 64
 Protocol: TCP (6)
 Header Checksum: 0x6a78 [validation disabled]
 [Header checksum status: Unverified]
 Source Address: 192.168.1.3
 Destination Address: 44.228.249.3
 [Stream index: 2]

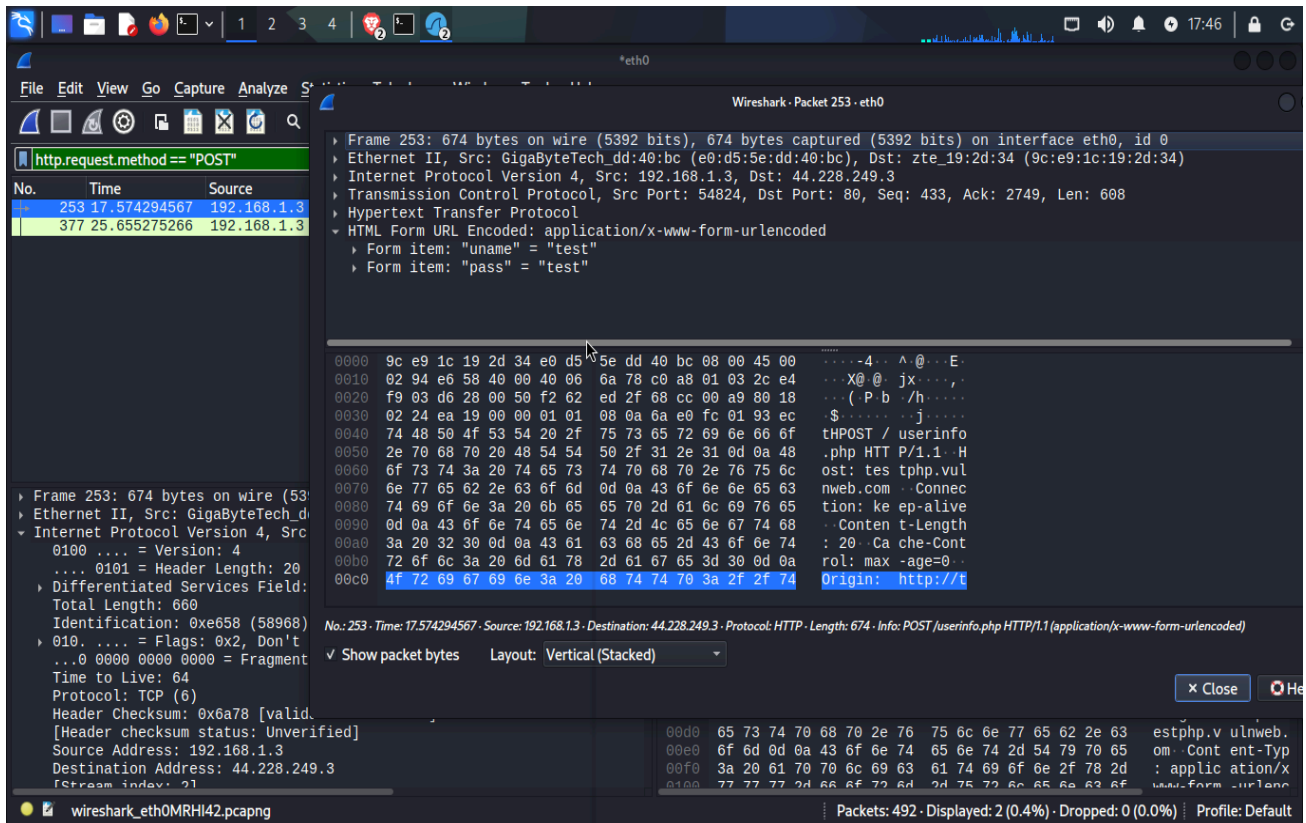
Wireshark_eth0MRH142.pcapng | Packets: 492 · Dropped: 0 (0.0%) | Profile: Default

Wireshark interface showing network traffic on interface *eth0. The packet list displays several frames, including HTTP POST requests. The selected packet (No. 253) is an HTTP POST request from 192.168.1.3 to 44.228.249.3, containing an application/x-www-form-urlencoded body.

No.	Time	Source	Destination	Protocol	Length	Info
253	17.574294567	192.168.1.3	44.228.249.3	HTTP	674	POST /userinfo.php HTTP/1.1 (application/x-www-form-urlencoded)
377	25.655275266	192.168.1.3	44.228.249.3	HTTP	828	POST /userinfo.php HTTP/1.1 (application/x-www-form-urlencoded)

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 Destination Address: 44.228.249.3
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Wireshark_eth0MRH142.pcapng | Packets: 492 · Displayed: 2 (0.4%) · Dropped: 0 (0.0%) | Profile: Default



Conclusion:

The target website is vulnerable because it sends sensitive data without encryption. This allows attackers to intercept and steal information using tools like Wireshark.

This only works because **HTTP is plaintext**.

This will **not** work on HTTPS — that's encrypted.