Simple Vulnerability Assessment Report

Tool Used: Wireshark
Target: Website (http://testphp.vulnweb.com/login.php)

Steps Performed:

1. **Started Wireshark**
   Launched Wireshark to capture network traffic.

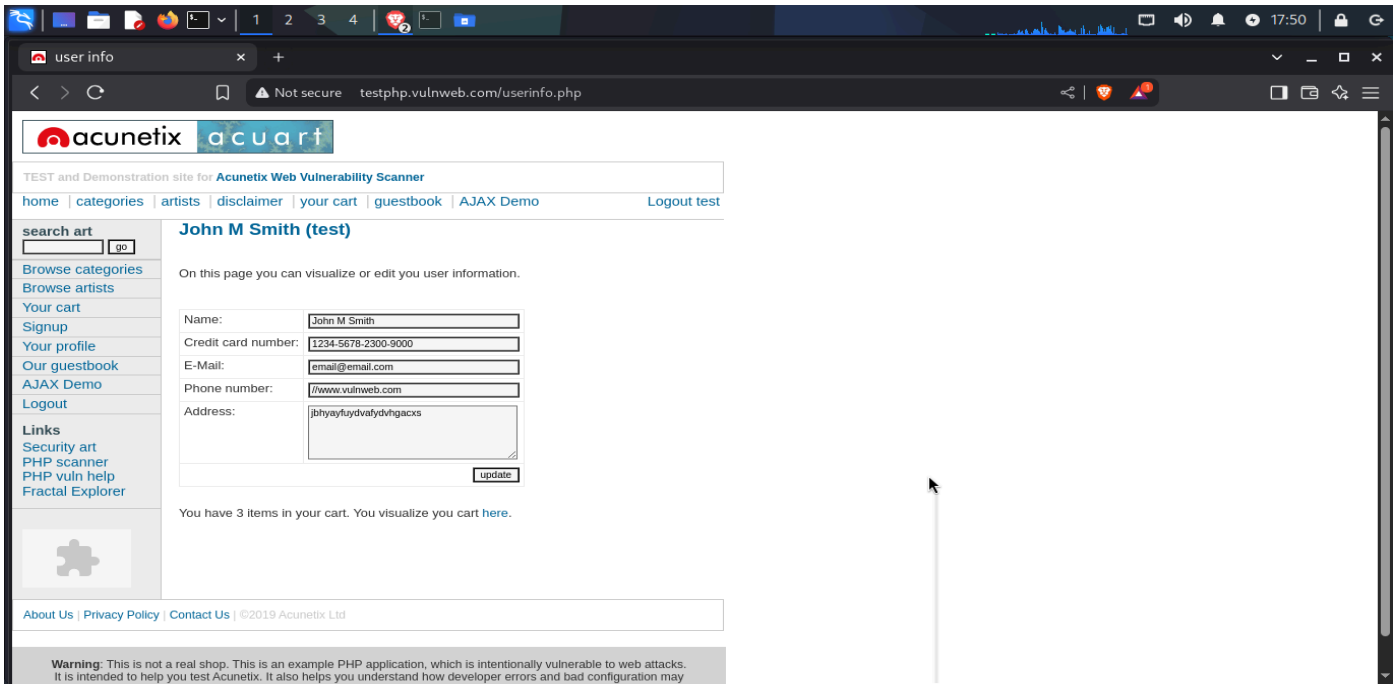
2. **Visited the Target Website**
   Accessed the website in a browser while Wireshark was running.

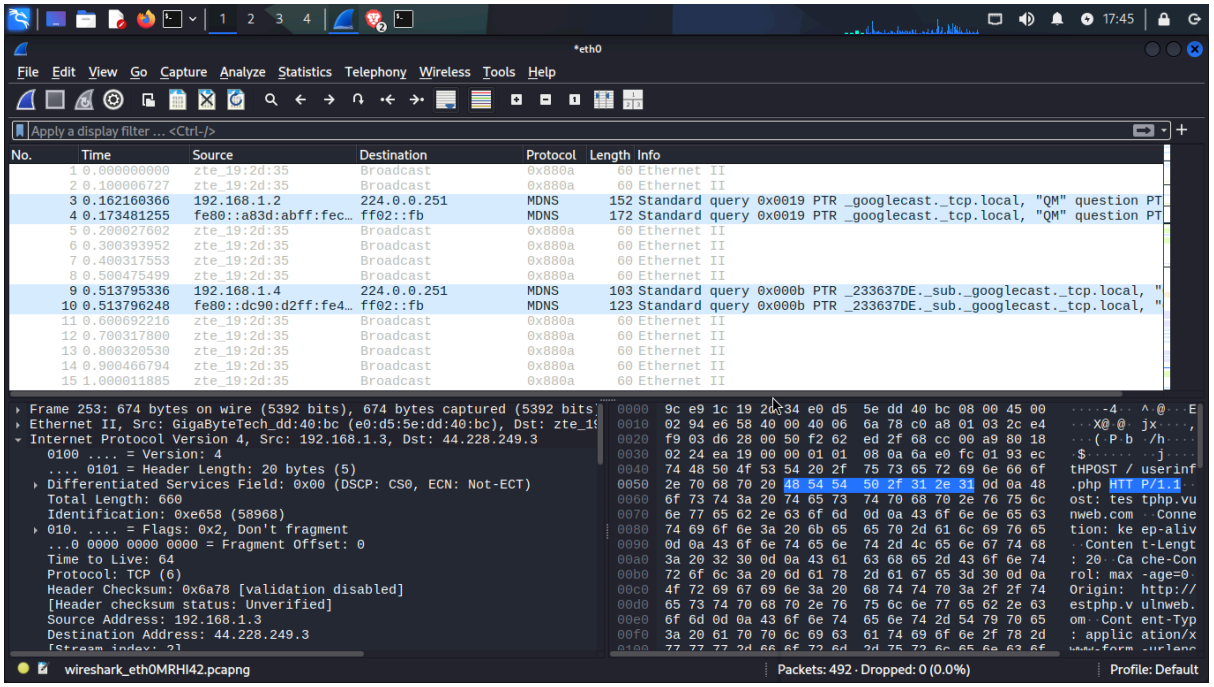
3. **Captured Packets**
   Let Wireshark collect all network packets during the visit.

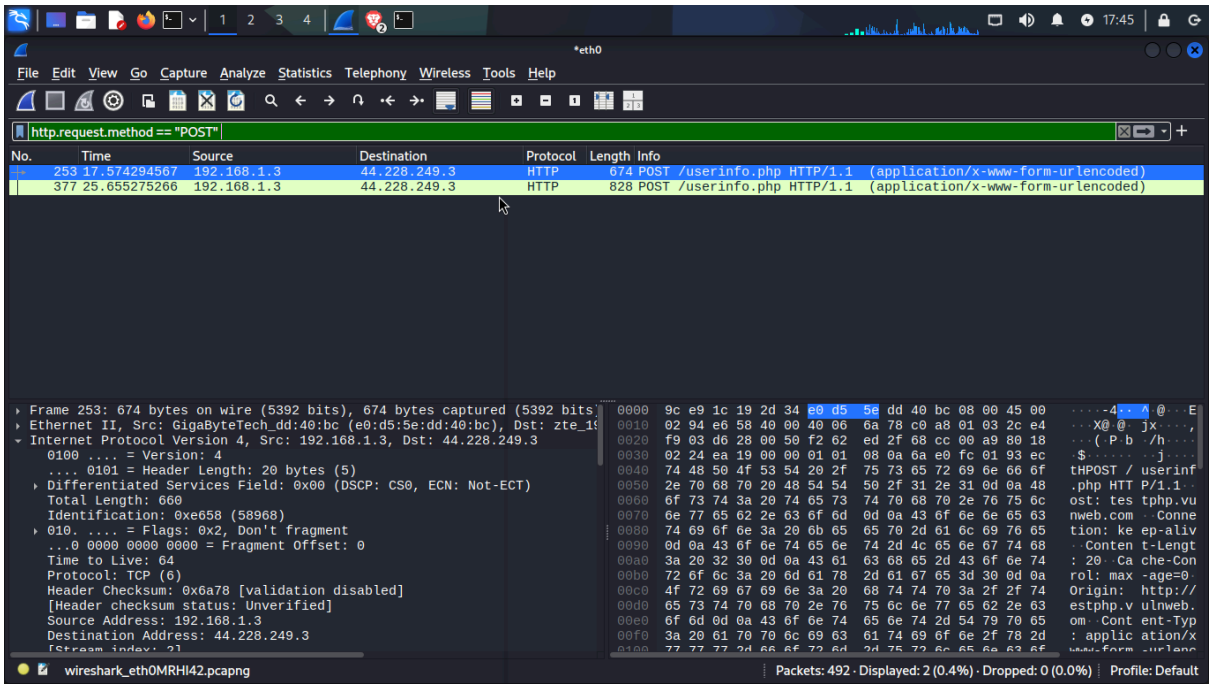
4. **Analyzed Packets**
   Searched through captured packets, especially looking for HTTP traffic.

   (http.request.method == "POST")

5. **Found Sensitive Info**
   Discovered login credentials (like username and password) being sent in plain text.




*eth0
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help
Apply a display filter ... <Ctrl-/>
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 0.500475499 zte_19:2d:35 Broadcast 0x880a 60 Ethernet II
9 0.513795336 192.168.1.4 224.0.0.251 MDNS 103 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 0.600692216 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)
Ethernet II, Src: GigaByteTech_dd:40:bc (e0:d5:5e:dd:40:bc), Dst: zte_19
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
0000 9c e9 1c 19 2d 34 e0 d5 5e dd 40 bc 08 00 45 00
0010 02 94 e6 58 40 00 40 06 6a 78 c0 a8 01 03 2c e4
0020 f9 03 d6 28 00 50 f2 62 ed 2f 68 cc 00 a9 80 18
0030 02 24 ea 19 00 00 01 01 08 0a 6a e0 fc 01 93 ec
0040 74 48 50 4f 53 54 20 2f 75 73 65 72 69 6e 66 6f
0050 2e 70 68 70 20 48 54 54 50 2f 31 2e 31 0d 0a 48
0060 6f 73 74 3a 20 74 65 73 74 70 68 70 2e 76 75 6c
0070 6e 77 65 62 2e 63 6f 6d 0d 0a 43 6f 6e 6e 65 63
0080 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c 69 76 65
0090 0d 0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68
00a0 3a 20 32 30 0d 0a 43 61 63 68 65 2d 43 6f 6e 74
00b0 72 6f 6c 3a 20 6d 61 78 2d 61 67 65 3d 30 0d 0a
00c0 4f 72 69 67 69 6e 3a 20 68 74 74 70 3a 2f 2f 74
00d0 65 73 74 70 68 70 2e 76 75 6c 6e 77 65 62 2e 63
00e0 6f 6d 0d 0a 43 6f 6e 74 65 6e 74 2d 54 79 70 65
00f0 3a 20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 2d
wireshark_eth0MRHI42.pcapng
Packets: 492 · Dropped: 0 (0.0%)
Profile: Default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http.request.method == "POST"
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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0010 02 94 e6 58 40 00 40 06 6a 78 c0 a8 01 03 2c e4
0020 f9 03 d6 28 00 50 f2 62 ed 2f 68 cc 00 a9 80 18
0030 02 24 ea 19 00 00 01 01 08 0a 6a e0 fc 01 93 ec
0040 74 48 50 4f 53 54 20 2f 75 73 65 72 69 6e 66 6f
0050 2e 70 68 70 20 48 54 54 50 2f 31 2e 31 0d 0a 48
0060 6f 73 74 3a 20 74 65 73 74 70 68 70 2e 76 75 6c
0070 6e 77 65 62 2e 63 6f 6d 0d 0a 43 6f 6e 6e 65 63
0080 74 69 6f 6e 3a 20 6b 65 65 70 2d 61 6c 69 76 65
0090 0d 0a 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68
00a0 3a 20 32 30 0d 0a 43 61 63 68 65 2d 43 6f 6e 74
00b0 72 6f 6c 3a 20 6d 61 78 2d 61 67 65 3d 30 0d 0a
00c0 4f 72 69 67 69 6e 3a 20 68 74 74 70 3a 2f 2f 74
00d0 65 73 74 70 68 70 2e 76 75 6c 6e 77 65 62 2e 63
00e0 6f 6d 0d 0a 43 6f 6e 74 65 6e 74 2d 54 79 70 65
00f0 3a 20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 2d
wireshark_eth0MRHI42.pcapng
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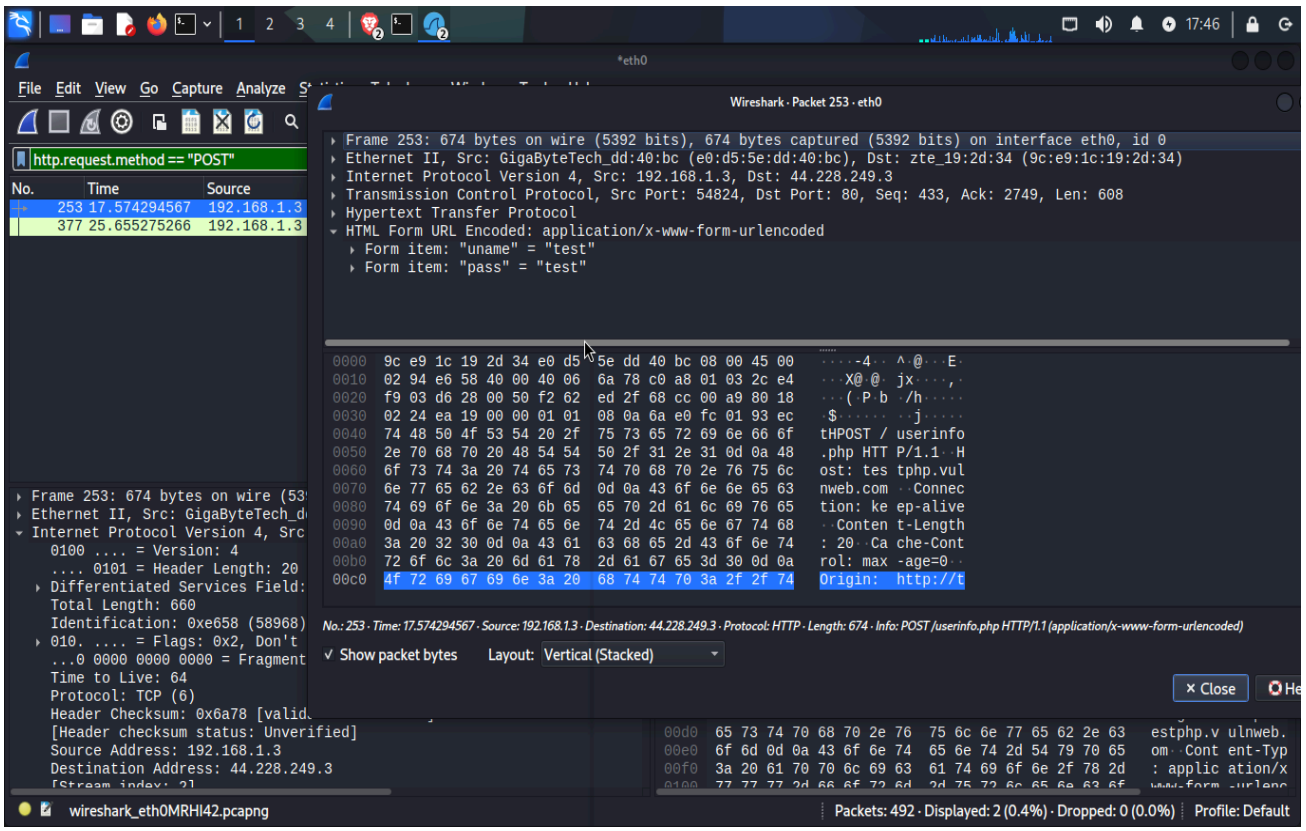
Profile: Default



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.