# Capturing HTTP Credentials using Wireshark



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Environment: Kali Linux (Attacker), Windows Server

(Victim)

Tools: Wireshark, Browser, ping

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### Objective



#### **Demonstrate**

- Demonstrate how unencrypted HTTP login credentials can be captured over the network.



#### Use

- Use Wireshark on Kali Linux to monitor traffic from a Windows machine.

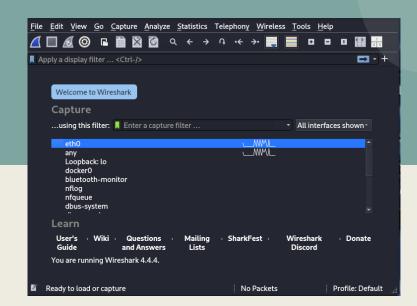


#### **Analyze**

- Analyze packets to retrieve sensitive data like usernames and passwords.

### Starting Wireshark

- Launch Wireshark with `sudo wireshark`.
- Select the `eth0` interface to capture packets.



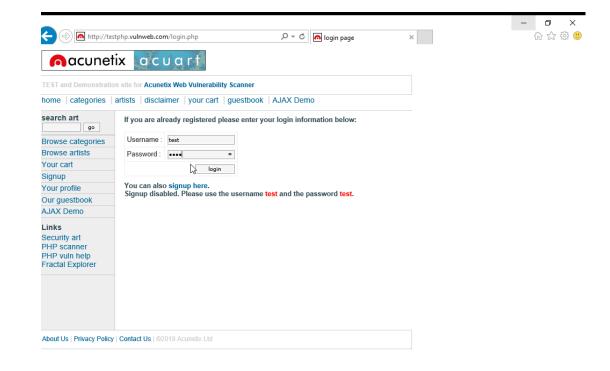
# Confirming Target is Live

- Use `ping
   192.168.9.129` to
   verify the Windows
   machine is active.
- Replies confirm it's reachable for packet sniffing.

```
root@kali: /home/kali
File Actions Edit View Help
    root®kali)-[/home/kali]
    ping 192.168.9.129
PING 192.168.9.129 (192.168.9.129) 56(84) bytes of data.
64 bytes from 192.168.9.129: icmp_seq=1 ttl=128 time=1.55 ms
64 bytes from 192.168.9.129: icmp_seq=2 ttl=128 time=1.75 ms
64 bytes from 192.168.9.129: icmp_seq=3 ttl=128 time=1.37 ms
64 bytes from 192.168.9.129: icmp_seq=4 ttl=128 time=0.990 ms
64 bytes from 192.168.9.129: icmp_seq=5 ttl=128 time=1.34 ms
64 bytes from 192.168.9.129: icmp_seq=6 ttl=128 time=0.963 ms
64 bytes from 192.168.9.129: icmp_seq=7 ttl=128 time=1.13 ms
64 bytes from 192.168.9.129: icmp_seq=8 ttl=128 time=0.304 ms
64 bytes from 192.168.9.129: icmp_seq=9 ttl=128 time=1.02 ms
64 bytes from 192.168.9.129: icmp_seq=10 ttl=128 time=1.57 ms
64 bytes from 192.168.9.129: icmp_seq=11 ttl=128 time=1.10 ms
64 bytes from 192.168.9.129: icmp_seq=12 ttl=128 time=0.917 ms
64 bytes from 192.168.9.129: icmp_seq=13 ttl=128 time=0.654 ms
64 bytes from 192.168.9.129: icmp_seq=14 ttl=128 time=1.28 ms
64 bytes from 192.168.9.129: icmp_seq=15 ttl=128 time=1.16 ms
64 bytes from 192.168.9.129: icmp_seq=16 ttl=128 time=1.13 ms
^[[B^[[B^[[B^[[B^[[B64 bytes from 192.168.9.129: icmp_seq=17 ttl=128 time
64 bytes from 192.168.9.129: icmp seq=18 ttl=128 time=1.65 ms
```

#### Target Accesses Vulnerable Web Page

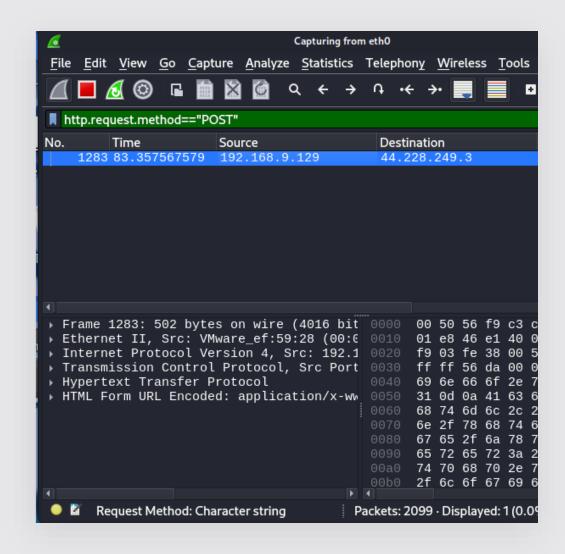
- Victim logs into `http://testphp.vuln web.com`.
- Credentials:Username = test,
- Password = test
- Site uses HTTP (insecure).



### Capture HTTP POST Packet

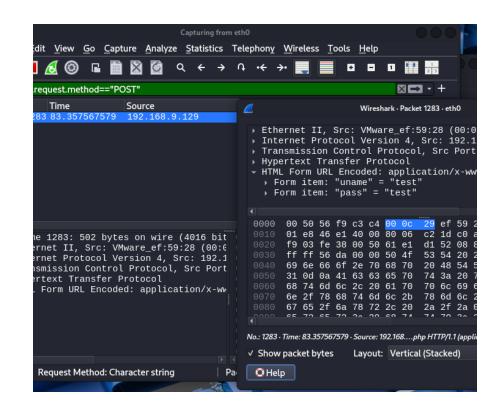
- Apply Wireshark filter:
- `http.request.meth od == "POST"`
- Observe traffic from

192.168.9.129 to 44.228.249.3



# Analyze Packet Details

- Packet reveals: `uname=test&pass=test`
- Confirms credentials sent in plain text (insecure HTTP).



### Wireshark Launch Command

- Command used to start Wireshark with root privileges:
- sudo wireshark

```
(root@ kali)-[/home/kali]
# sudo wireshark
```

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## Conclusion & Recommendation

- Captured credentials show the danger of unencrypted HTTP login forms.
- - Recommendations:
- Use HTTPS to secure communications.
- Avoid logging into sensitive accounts on insecure networks.
- Monitor internal traffic for potential data leaks.

