#### **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

```
__mod = modifier_ob_
                                                                                           mirror object to mirror
                                                                                      mirror_mod.mirror_object
                                                                                         peration == "MIRROR_X":
                                                                                      mirror_mod.use_x = True
                                                                                        !rror_mod.use_y = False
                                                                                        !rror_mod.use_z = False
                                                                                             _operation == "MIRROR_Y":
                                                                                          irror_mod.use_x = False
                                                                                            Irror_mod.use_y = True
                                                                                             operation == "MIRROR_Z"
                                                                                                rror_mod.use_x = False
                                                                                                  rror_mod.use_y = False
DNS Spoofing at the end -add
                                                                                                rror_mod.use_z = True
Attack using select=1

Attack using select=1

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                                                                                                   int("please select exactle
 Linux
                                                                                                                OPERATOR CLASSES ----
```

Demonstration with testphp.vulnweb.com x mirror to the selected testphp.vulnweb.com x mirror mirror x"

Adarshvardhan Singh or x"

ontext):
oxt.active\_object is not a

#### 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.



• OS: Kali Linux 2025.1a

## Tools Used



• Tool: Ettercap 0.8.3.1

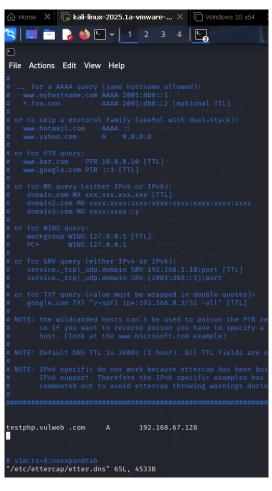


• Target: testphp.vulnweb.com (Acunetix test site)



• Browser: Firefox





## Editing the DNS Spoof File

- Edited
  /etc/ettercap/etter.d
  ns 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.

```
File Actions Edit View Help

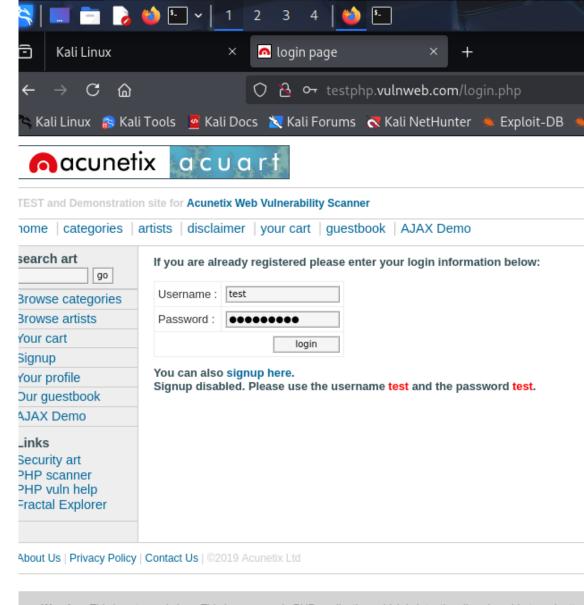
(***cott@kali**)-[/home/kali**]
***ettercap -T -q -M arp:remote -P /// ///

**ettercap 0.8.3.1 copyright 2001-2020 Ettercap Development Team

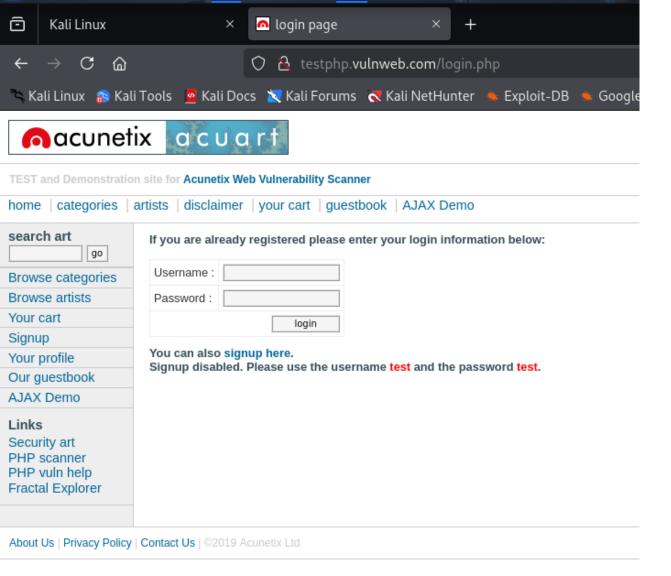
Listening on:
**eth0 \rightarrow 00:0C:29:F9:4A:BC
**192.168.221.129/255.255.255.0
**fe80::8340:1bbf:4f0f:22c0/64
```

### 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 web attact it is intended to help you test Acunetix. It also helps you understand how developer errors and bad configuration new let someone break into your website. You can use it to test other tools and your manual hacking skills as well. The Look for potential SQL Injections, Cross-site Scripting (XSS), and Cross-site Request Forgery (CSRF), and more



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# Victim's Perspective

- Victim visits testphp.vulnweb.c om/login.php
- Website loads normally – spoofing unnoticed.

#### Login Captured

Ettercap captured credentials entered by victim:

Username: test

Password: 123456789



