

Task 6 :DNS Spoofing Attack Simulation

Objective: Perform a simulated DNS spoofing attack in a controlled lab environment.

Tools : Ettercap, DNSChef, VirtualBox

Deliverables: Lab setup instructions, spoofing demo screenshots

Hints/Mini Guide:

Use isolated network. Spoof domains like example.com to redirect to fake page.

Outcome: Understand DNS-based attacks and how to defend against them.

Interview Questions:

- 1.What is DNS spoofing?
- 2.How does DNS resolution work?
- 3.What tools can simulate DNS spoofing?
- 4.What is a man-in-the-middle (MITM) attack?
- 5.How can DNS spoofing be prevented?
- 6.What are the risks of DNS attacks?
- 7.What is ARP spoofing vs DNS spoofing?
- 8.What is DNSSEC?
- 9.How do browsers validate DNS responses?
- 10.How does DNS caching affect spoofing?

Key Concepts: DNS Protocol, Spoofing, Man-in-the-Middle (MITM), Network Security

🌟 Task Submission Guidelines

🕒 Time Window:

You've got a 12-hour window—from 10:00 AM to 10:00 PM—to give your best. It's your time to shine. But remember, once the clock hits 10:00 PM, submissions close.

🔍 Self-Research Allowed:

You're not alone—but we believe in your ability to explore and grow. Feel free to use Google, YouTube, or any learning resource. Learning how to learn is your biggest strength.

🔧 Debug Yourself:

Mistakes? Perfect. That's how real learning happens. Try solving issues on your own—it'll build your confidence and sharpen your problem-solving skills for the future.

💰 No Paid Tools:

We value learning over luxury. If any task points to a paid tool, skip it. Don't spend a single rupee. Just search for free, open-source options—we promise, it's part of the real-world hustle.

📁 GitHub Submission:

For each task, start fresh. Create a new GitHub repo.

Upload everything you used—your code, dataset, screenshots (if any), and a short README.md. That README is your story—tell us what you built, why, and how.

✉️ Submission:

When you're done and proud of what you've built, drop your GitHub repo link through the submission form. Let your work speak for you.

