Project Title

DNS Record Enumeration Using the host Command

Objective

To gain practical experience in querying and analyzing DNS records using the host command-line utility, enabling insight into how domain name resolution works and understanding different types of DNS data like A, MX, NS, and SOA records.

Skills Learned

- DNS fundamentals and record types (A, MX, NS, SOA)
- How to query specific DNS servers
- Analysis of domain resolution paths
- Troubleshooting DNS issues via direct queries
- Working with terminal-based DNS utilities

Tools Used

- Operating System: Kali Linux (or any Linux distro)
- Command-Line Utility: host

Tasks Performed

Level	Description
Basic	Queried openai.com using host to obtain its A (IP address) record.
O Intermediate	Queried the domain's MX records to find the mail servers responsible for handling email.
Advanced	Used host -t ns and host -t soa to examine name servers and SOA records for deeper DNS metadata.
Advanced	Queried a custom DNS server using host and compared results with default resolver.

Why This Matters (Real-World Impact)

In cybersecurity and IT support roles, DNS misconfigurations and domain hijacking are critical concerns. Mastery of tools like host enables fast domain diagnostics, aids in blue team

investigations, and prepares you to troubleshoot and secure enterprise DNS infrastructures with confidence.

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