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Subdomain Bruteforcing

Subdomain Brute-Force Enumeration is a powerful active subdomain discovery technique that leverages pre-defined lists of potential subdomain names. This approach systematically tests these names against the target domain to identify valid subdomains. By using carefully crafted wordlists, you can significantly increase the efficiency and effectiveness of your subdomain discovery efforts.

The process breaks down into four steps:

- wordlists can be:
 - General-Purpose: Containing a broad range of common subdomain names (e.g., dev, staging, blog, mail, admin, test). This approach is useful when you don't know the target's naming conventions.

 - · Custom: You can create your own wordlist based on specific keywords, patterns, or intelligence gathered
- 2. Iteration and Querying: A script or tool iterates through the wordlist, appending each word or phrase to the main domain (e.q., example.com) to create potential subdomain names (e.q., dev.example.com, staging.example.com).
- 3. DNS Lookup: A DNS query is performed for each potential subdomain to check if it resolves to an IP address.
- Further validation steps might be taken to confirm the subdomain's existence and functionality (e.g., by attempting to access it through a web browser).

There are several tools available that excel at brute-force enumeration:

Tool	Description
	Comprehensive DNS enumeration tool that supports dictionary and brute-force attacks for discovering subdomains.
	User-friendly tool for recursive subdomain discovery, featuring wildcard detection and an easy-to-use interface.
	Versatile tool that combines multiple DNS reconnaissance techniques and offers customisable output formats.
	Actively maintained tool focused on subdomain discovery, known for its integration with other tools and extensive data sources.
	Simple yet effective tool for finding subdomains using various techniques, ideal for quick and lightweight scans.
	Powerful and flexible DNS brute-forcing tool, capable of resolving and filtering results effectively.

DNSEnum

disenum is a versatile and widely-used command-line tool written in Perl. It is a comprehensive toolkit for DNS reconnaissance, providing various functionalities to gather information about a target domain's DNS infrastructure and potential subdomains. The tool offers several key

- providing a comprehensive overview of the target's DNS configuration.
- treasure trove of DNS information.
- involves systematically testing potential subdomain names against the target domain to identify valid ones.
- Google Scraping: The tool can scrape Google search results to find additional subdomains that might not be listed in DNS records directly.
- Reverse Lookup: dnsenum can perform reverse DNS lookups to identify domains associated with a given IP address, potentially revealing other websites hosted on the same server.
- WHOIS Lookups: The tool can also perform WHOIS queries to gather information about domain ownership and registration details.

Let's see diseasum in action by demonstrating how to enumerate subdomains for our target, inlanefreight.com. In this demonstration, we'll

Code: bash	
dnsenumenum inlanefreight.com -f /usr/share/seclists/Discovery/DNS/subdomains-topimillion-118800.txt -r	

In this command:

- some tuning options --enum.
- wordlist we'll use for brute-forcing. Adjust the path if your SecLists installation is different.
- -r: This option enables recursive subdomain brute-forcing, meaning that if dnsenum finds a subdomain, it

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MisaelMacias@htb[/htb]\$ dnsenum -	enum inlanefreight.com -f	/usr/share/seclists/Discovery/DNS/subdomains-top1million-	







