Project Title

Web File Retrieval and Website Mirroring with wget

Objective

To learn and demonstrate the use of wget for downloading files, websites, and performing deep web retrieval, including ethical and technical considerations in cybersecurity contexts.

Skills Learned

- HTTP and web content download mechanisms
- Saving websites with full assets (CSS, JS, images)
- Recursive website mirroring
- Customizing HTTP request headers (user-agent manipulation)
- Understanding legal and ethical implications of scraping

Tools Used

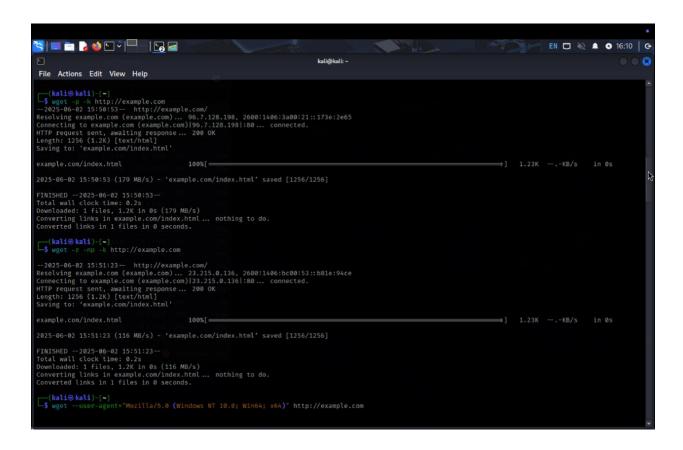
- Operating System: Kali Linux (or any Linux-based OS)
- Command-Line Utility: wget

Tasks Performed

| Level | Description |
|--------------|---|
| Basic | Downloaded a single file from example.com using wget <url>.</url> |
| | Retrieved a full webpage with all associated resources (HTML, CSS, JS) using |
| Intermediate | wget -p -k <url>.</url> |
| Advanced | Mirrored an entire website recursively using wget -r <url>. Explored the risks of mass-downloading web content.</url> |
| Advanced | Used wgetuser-agent="CustomAgent" to spoof identity. Analyzed ethical considerations and website defenses. |

Why This Matters (Real-World Impact)

SOC analysts and cybersecurity professionals often encounter scenarios where they need to gather web-based intel, preserve malicious pages for analysis, or understand web server behavior. Tools like wget equip professionals to perform web reconnaissance, site cloning for phishing investigations, or forensic backups—while staying within legal boundaries.



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