



Web Security



Shift



Top 20 open-source **WEB PENETRATION TESTING TOOLS**

including their descriptions &
unique selling points (USPs)



Below is the detailed content for the top 20 open-source web penetration testing tools, including their descriptions and unique selling points (USPs).

1. OWASP ZAP (Zed Attack Proxy)

Description: An integrated penetration testing tool for finding vulnerabilities in web applications.

USPs:

- Automated scanner to identify vulnerabilities.
- Active community and regular updates.
- Integrated with other OWASP projects.

2. Burp Suite Community Edition

Description: A comprehensive solution for web application security checks.

USPs:

- Intercepting Proxy to monitor and modify HTTP/HTTPS traffic.
- Extensibility through the BApp Store.
- Handy tools like Repeater and Intruder.

3. Nmap

Description: Network mapping tool that discovers devices and services on a network.

USPs:

- Port scanning and service detection.
- Scriptable interaction with the target.
- Extensive OS and version detection.



4. SQLMap

Description: Automates the process of detecting and exploiting SQL injection flaws.

USPs:

- Supports a wide range of database servers.
- Automated exploitation of SQL injection vulnerabilities.
- Ability to dump database contents.

5. Metasploit Framework

Description: A tool for developing and executing exploit code against a remote target.

USPs:

- Huge database of exploits.
- Wide range of payloads and auxiliary functions.
- Community contributions and modules.

6. Wireshark

Description: Network protocol analyzer that lets you capture and interactively browse the traffic running on a computer network.

USPs:

- Deep inspection of hundreds of protocols.
- Live capture and offline analysis.
- Powerful display filters.

7. Nikto

Description: Web server scanner which performs comprehensive tests against web servers for multiple items.

USPs:

- Scans for outdated software and harmful files.
- Identifies default installations and configurations.
- Supports SSL, proxies, and authentication.



8. John the Ripper

Description: Password cracking software tool designed to help detect weak passwords.

USPs:

- Supports numerous cipher and hashing algorithms.
- Customizable cracking modes.
- Community-enhanced versions with more features.

9. Aircrack-ng

Description: A complete suite of tools to assess WiFi network security.

USPs:

- Supports monitoring, attacking, testing, and cracking.
- Works with any wireless network interface controller.
- Extensive documentation and community support.

10. Wapiti

Description: A command-line application for auditing the security of web applications.

USPs:

- Performs black-box scans.
- Supports both GET and POST HTTP methods for attacks.
- Can detect a variety of vulnerabilities.

11. WPScan

Description: A black box WordPress vulnerability scanner.

USPs:

- Specialized for WordPress, detecting numerous types of vulnerabilities.
- Enumerates users, plugins, and themes.
- Database updates for the latest vulnerabilities.



12. Gobuster

Description: Tool used to brute-force URIs (directories and files) in web sites and DNS subdomains.

USPs:

- Fast processing and execution.
- Supports multiple modes including dir mode, DNS mode, and VHost mode.
- Easy to use with a simple command-line interface.

13. BeEF (Browser Exploitation Framework)

Description: A penetration testing tool that focuses on the web browser.

USPs:

- Can hook one or more web browsers and use them as beachheads for launching directed command modules.
- Extensive module support.
- Cross-platform compatibility.

14. XSSer

Description: Tool for detecting, exploiting, and reporting XSS vulnerabilities.

USPs:

- Automated detection of Cross-Site Scripting vulnerabilities.
- Includes various vectors for XSS testing.
- Capable of generating and validating payloads.

15. Commix

Description: Automated All-in-One OS command injection and exploitation tool.

USPs:

- Detects and exploits command injection flaws.
- User-friendly interface.
- Versatile and effective.



16. dirb

Description: Web content scanner to find existing (and hidden) objects in a web server.

USPs:

- Brute force directories and files in web servers.
- Multiple dictionary support for different purposes.
- Customizable with command-line options.

17. Acunetix

Description: Fully automated web vulnerability scanner that detects and reports on over 4500 web application vulnerabilities.

USPs:

- Scans for SQL injection, XSS, XXE, SSRF, Host Header Attacks, and more.
- Automated crawling and scanning with manual testing capabilities.
- Integrates with popular issue trackers and CI/CD tools.

18. Arachni

Description: Scriptable framework intended for web application security testing.

USPs:

- High performance with native concurrency and intelligent payload generation.
- Supports a wide variety of web applications and frameworks.
- Modular, high-performance Ruby framework.

19. Fiddler

Description: A free web debugging proxy for any browser, system, or platform.

USPs:

- Capture, inspect, and alter web traffic.
- Customizable with FiddlerScript or extensions.
- Performance testing features like bandwidth throttling.



20. Skipfish

Description: Fully automated, active web application security reconnaissance tool.

USPs:

- High speed: handles over 2000 requests per second with new heuristics.
- Security checks for hundreds of vulnerability types.
- Smart result analysis and clustering.

Each tool listed above provides a unique set of features and benefits that cater to various aspects of web penetration testing. They are instrumental in identifying vulnerabilities, assessing the security posture of web applications, and enhancing the overall cybersecurity resilience of organizations.

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