

Web Application Testing Lab

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Objective

Conduct systematic OWASP Top 10 testing on DVWA to identify, exploit, and document SQL Injection and Cross-Site Scripting vulnerabilities.

Environment

Attacker: Kali LinuxTarget: DVWA

• Tools: Burp Suite, sqlmap, OWASP ZAP, Nikto

Steps

1. Recon using Nikto nikto -h http://127.0.0.1/DVWA -output nikto.txt

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- (azukaazu@ kali)-[-/Desktop]
- Sudo nikto -h http://127.0.0.1/DVWA -output nikto.txt
- Nikto v2.5.0

* Target IP: 127.0.0.1

* Target Port: 80

* Start Time: 2025-10-14 14:57:03 (GMT5.5)

* Server: Apache/2.4.03 (Debian)

* /DVWA/: The anti-clickjacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options/DVWA/: The Arti-clickjacking X-Frame-Options header is not set. This could allow the user agent to render the content of the site in a different fashion missing-content-type-header/

* Root page /DVWA redirects to: login.php

* NO GGI Directories found (use '-C all' to force check all possible dirs')

* OPTIONS: Allowed HTTP Methods: GET, POST, OPTIONS, HEAD.

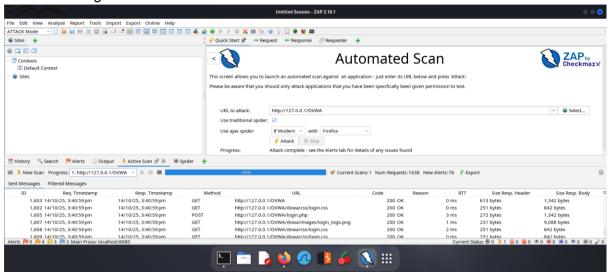
* /DVWA//cet/hosts: The server install allows reading of any system file by adding an extra '/' to the URL.

* /DVWA/coninjs/: Directory indexing found.

* /DVWA/coninjs/: Directory indexing content indexing content indexing content indexing content indexing content indexin
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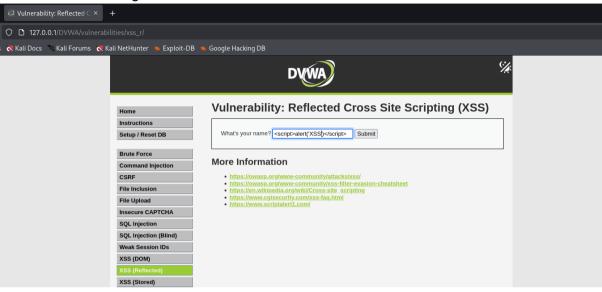
2. Recon using OWASP-ZAP

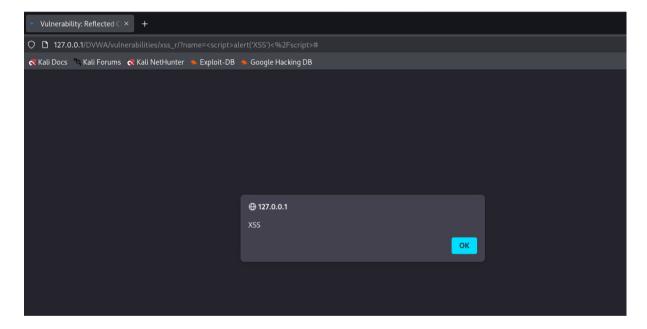


3. Automated Testing for SQLi



4. Automated Testing for XSS







5. Manual Testing for SQLi

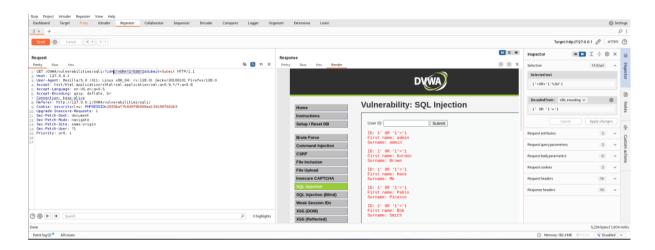
Configure the browser to use burp suite as proxy.

Login to 'DVWA' and navigate to 'SQL injection' page.

Enter a value like 1 and click Submit

In burp, capture this request and send it to the repeater

In Repeater, modify the id parameter: (remember to URL-encode parameter) id=1' OR '1'='1



6. Manual Testing for XSS

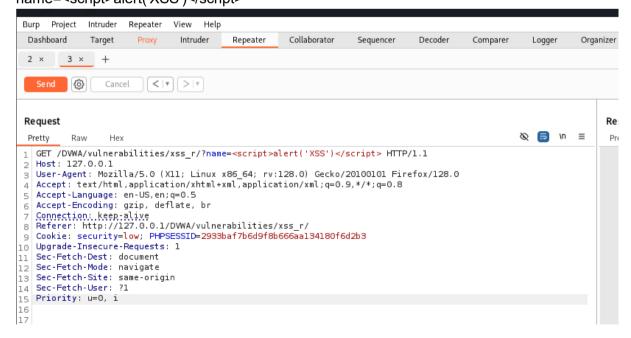
Configure the browser to use burp suite as proxy.

Login to 'DVWA' and navigate to 'XSS (reflected)' page.

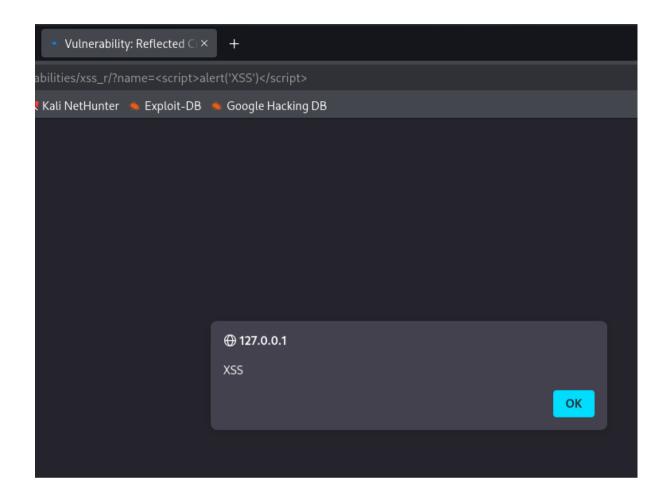
Enter a value and click Submit

In burp, capture this request and send it to the repeater

In Repeater, modify the name parameter: (remember to URL-encode parameter) name=<script>alert('XSS')</script>







Log

Test ID	Vulnerability	Severity	Target URL
1	SQL	Critical	http://127.0.0.1/DVWA/vulnerabilities/sqli/
2	Injection XSS	Medium	http://127.0.0.1/DVWA/vulnerabilities/xss r/
_	Reflected	Wodiam	11.0.0.17.0.0.17.0.0.17.0.07.000_17

