



Target: Damn Vulnerable Web Application (DVWA)

1. Findings Log

Test ID	Vulnerability	Severity	Target URL
DVWA-SQLi-001	SQL Injection (Blind)	Critical	http://localhost:42001/vulnerabilities/sqli/
DVWA-XSS-002	Cross-Site Scripting (Reflected)	High	http://localhost:42001/vulnerabilities/xss_r/

Vulnerability evidence is provided in the screenshots referenced below.

2. Testing Checklist

- **Test for SQL injection (sqlmap): Completed.** The id parameter on the SQL Injection page was found to be vulnerable to automated exploitation. The sqlmap tool successfully enumerated databases and dumped the dvwa user table credentials. (See: 10_sqlmap_Database_Enum.png, 11_sqlmap_User_Credentials_Dump.png)
- **Check for XSS (manual payloads): Completed.** The name parameter on the Reflected XSS page was found to be vulnerable. The payload `<script>alert('XSS')</script>` was successfully injected and executed using Burp Suite to intercept and manipulate the HTTP request. (See: 12_Burp_Intercepted_Request.png, 13_Burp_Modified_XSS_Request.png, 14_XSS_Alert_Triggered.png)

3. Testing Summary

Assessment of the DVWA application identified critical security flaws, including a SQL Injection vulnerability allowing full database disclosure and a Reflected Cross-Site Scripting flaw. These findings, part of the OWASP Top 10, demonstrate a lack of input validation and output encoding. Immediate remediation through the use of parameterized queries and context-aware output encoding is critically advised.



Screenshot Evidence References:

1. **10_sqlmap_Database_Enum.png**: sqlmap successfully identifying the backend DBMS and enumerating available databases.
2. **11_sqlmap_User_Credentials_Dump.png**: sqlmap dumping and cracking the hashes from the users table, revealing weak passwords.
3. **12_Burp_Intercepted_Request.png**: Burp Suite Proxy intercepting the initial GET request to the Reflected XSS page.
4. **13_Burp_Modified_XSS_Request.png**: The intercepted request after modification, showing the XSS payload inserted into the name parameter.
5. **14_XSS_Alert_Triggered.png**: The victim's browser displaying the JavaScript alert pop-up, proving successful execution of the injected script.