

⌚ OWASP Top 10 Compliance Checklist for DVWA Assessment

This document provides a comprehensive OWASP Top 10 compliance checklist tailored to the DVWA penetration testing assessment performed on a vulnerable web application. Each row in the table maps a known vulnerability class to observed behavior and appropriate security guidance.

OWASP Category	Description	Observed in DVWA	Risk Status	Mitigation Required
A01:2021 – Broken Access Control	Failures that allow users to act outside of their intended permissions	<input checked="" type="checkbox"/> Not Tested	Unknown	Test higher DVWA levels for role bypass
A02:2021 – Cryptographic Failures	Weak or missing encryption in transit/storage	<input checked="" type="checkbox"/> Not Tested	Unknown	Use HTTPS, hash passwords securely
A03:2021 – Injection	SQL, OS, LDAP, and other injection flaws	<input checked="" type="checkbox"/> SQL, Command	<input checked="" type="checkbox"/> Critical Risk	Use prepared statements, input sanitization
A04:2021 – Insecure Design	Missing security controls in design phase	<input checked="" type="checkbox"/> Application-wide	<input checked="" type="checkbox"/> High Risk	Apply security-by-design principles
A05:2021 – Security Misconfiguration	Default configs, open directories, error messages	<input checked="" type="checkbox"/> File Upload, Error 500	<input checked="" type="checkbox"/> High Risk	Harden server & app configs
A06:2021 – Vulnerable and Outdated	Use of old libraries/frameworks without patches	<input checked="" type="checkbox"/> DVWA intentionally vulnerable	<input checked="" type="checkbox"/> High Risk	Apply patch management policies

OWASP Category	Description	Observed in DVWA	Risk Status	Mitigation Required
Components				
A07:2021 – Identification & Authentication Failures	Weak credentials, brute force attacks	<input checked="" type="checkbox"/> Brute Force	<input checked="" type="checkbox"/> High Risk	Rate limiting, MFA, strong passwords
A08:2021 – Software and Data Integrity Failures	CI/CD pipeline tampering or unverified software	<input checked="" type="checkbox"/> Not Tested	Unknown	Use code signing, SCA tools
A09:2021 – Security Logging & Monitoring Failures	Insufficient logging, no alerts, undetected attacks	<input checked="" type="checkbox"/> Not Tested	Unknown	Implement SIEM, alert rules
A10:2021 – Server-Side Request Forgery (SSRF)	Server can be tricked into making requests to unintended locations	<input checked="" type="checkbox"/> Not Tested	Unknown	Validate URLs, restrict internal access

Summary

Fully Exploited Categories:

- A03 – Injection
- A04 – Insecure Design
- A05 – Security Misconfiguration
- A06 – Vulnerable Components
- A07 – Authentication Failures

Partially Covered or Not Explored:

- A01, A02, A08, A09, A10