

OWASP Juice Shop Security Assessment Report

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Date: November 7, 2025
Tool Used: OWASP ZAP v2.16.1

Executive Summary

The OWASP Juice Shop application running locally at <http://localhost:3000> was scanned using OWASP ZAP. A total of 12 alerts were identified: 5 Medium, 4 Low, and 3 Informational. The majority of the findings are related to security misconfigurations such as missing headers and outdated components. No High or Critical vulnerabilities were detected.

Scope & Methodology

Target: OWASP Juice Shop (<http://localhost:3000>) Tools: OWASP ZAP v2.16.1 Testing Date: November 7, 2025 Method: Automated active scanning using default ZAP policies. Vulnerabilities are mapped to the OWASP Top 10 (2021) categories.

Overall Risk Summary

Risk Level	Counts	Percentage
High	0	0%
Medium	5	41.7%
Low	4	33.3%
Informational	3	25%

Delaited Findings

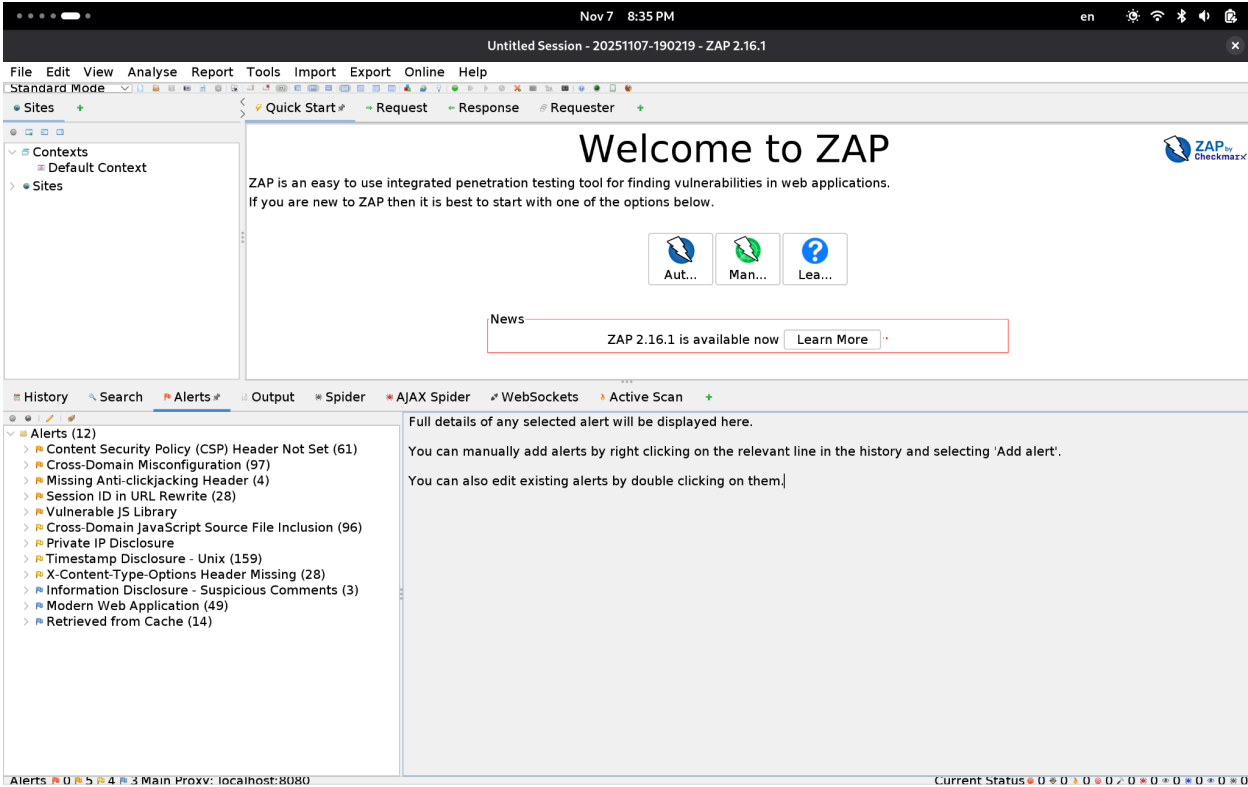
Vulnerabilities	Risk	OWASP Mapping	Remediation
CSP Header Not Set	Medium	A05: Security Misconfiguration	Add Content-Security-Policy header restricting sources.
Cross-Domain Misconfiguration	Medium	A05: Security Misconfiguration	Restrict CORS to trusted origins only.
Missing Anti-clickjacking Header	Medium	A05: Security Misconfiguration	Add X-Frame-Options or CSP frame-ancestors directive.
Session ID in URL Rewrite	Medium	A07: Identification & Authentication	Use secure cookies instead of URL parameters for sessions
Vulnerable JS Library	Medium	A06: Vulnerable and OutdatedUpdate Components	Update or replace outdated JavaScript libraries.
Cross-Domain JS Inclusion	Low	A05: Security Misconfiguration	Implement Subresource Integrity (SRI) and limit external scripts
Private IP Disclosure	Low	A01: Broken Access Control	Remove internal IPs from responses and logs.
Timestamp Disclosure	Low	A05: Security Misconfiguration	Remove server timestamps from responses.
X-Content-Type-Options Missing	Low	A05: Security Misconfiguration	Add X-Content-Type-Options: nosniff header.
Suspicious Comments	Info	A05: Security Misconfiguration	Remove developer comments from source code.

Retrieved from Cache	Info	A05: Security Misconfiguration	Add Cache-Control: no-store for sensitive data.
Modern Web Application	Info	N/A	No remediation needed.

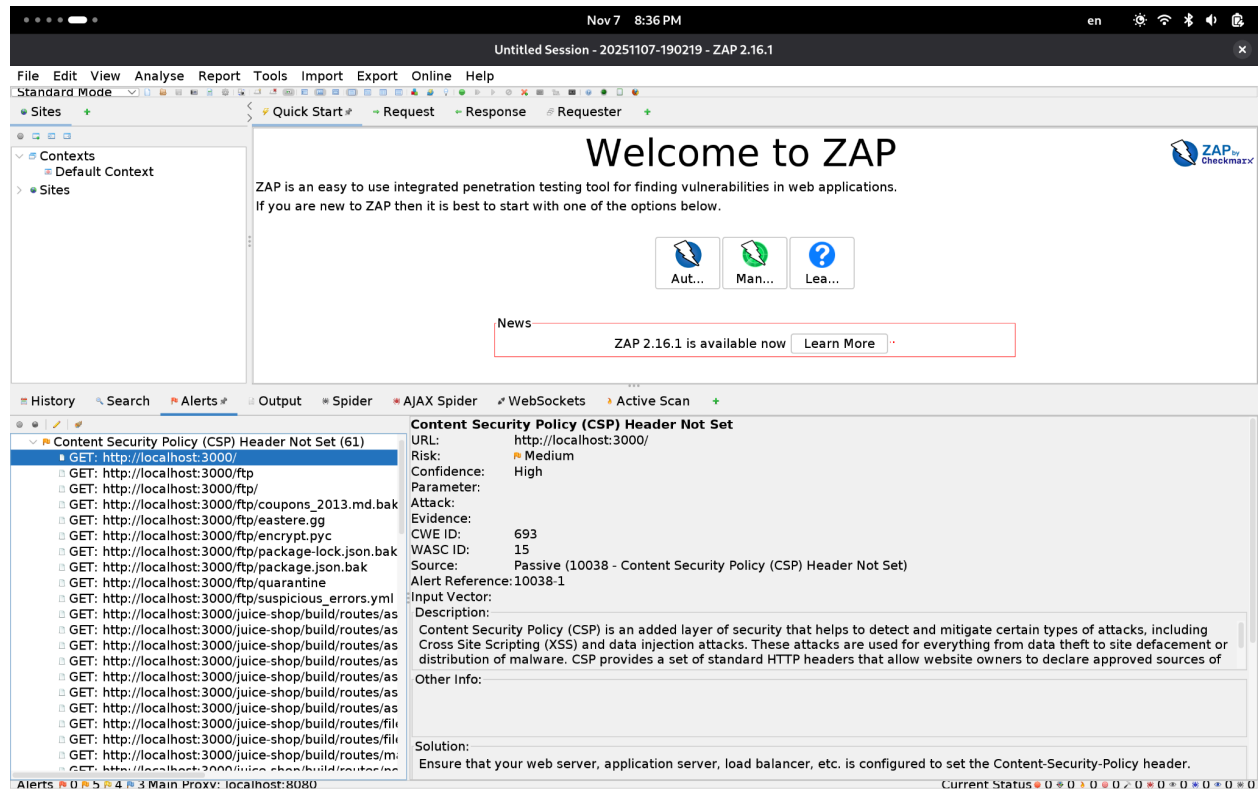
Remediation Roadmap

Immediate Fixes: Add security headers (CSP, X-Frame-Options, X-Content-Type-Options). • Short-Term: Update vulnerable libraries and restrict CORS to trusted origins. • Long-Term: Implement secure development lifecycle and continuous scanning.

Screen Shot of the Alerts From ZAP



Detailed Screenshots for the Medium Risks



For additional report you can check the git repository that contains the ZAP generated html report

Github Repo: [FUTURE_CS_01](#)