

ZAP by Checkmarx Scanning Report

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ZAP Version: 2.16.0

ZAP by [Checkmarx](#)

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About this report

Report description

OWASP JUICE SHOP REPORT

Report parameters

Contexts

No contexts were selected, so all contexts were included by default.

Sites

The following sites were included:

- <http://localhost:3000>

(If no sites were selected, all sites were included by default.)

An included site must also be within one of the included contexts for its data to be included in the report.

Risk levels

Included: High, Medium, Low, Informational

Excluded: None

Confidence levels

Included: User Confirmed, High, Medium, Low

Excluded: User Confirmed, High, Medium, Low, False Positive

Summaries

Alert counts by risk and confidence

This table shows the number of alerts for each level of risk and confidence included in the report.

(The percentages in brackets represent the count as a percentage of the total number of alerts included in the report, rounded to one decimal place.)

		Confidence			Total
User Confirmed	High	Medium	Low		

Risk	High	0 (0.0%)	0 (0.0%)	2 (12.5%)	0 (0.0%)	2 (12.5%)
	Medium	0 (0.0%)	3 (18.8%)	2 (12.5%)	0 (0.0%)	5 (31.2%)
	Low	0 (0.0%)	0 (0.0%)	4 (25.0%)	1 (6.2%)	5 (31.2%)
	Informational	0 (0.0%)	1 (6.2%)	2 (12.5%)	1 (6.2%)	4 (25.0%)
	Total	0 (0.0%)	4 (25.0%)	10 (62.5%)	2 (12.5%)	16 (100%)

Alert counts by site and risk

This table shows, for each site for which one or more alerts were raised, the number of alerts raised at each risk level.

Alerts with a confidence level of "False Positive" have been excluded from these counts.

(The numbers in brackets are the number of alerts raised for the site at or above that risk level.)

Site		Risk			
		High (= High)	Medium (>= Medium)	Low (>= Low)	Informational (>= Informational)
http://localhost:3000		2 (2)	5 (7)	5 (12)	4 (16)

Alert counts by alert type

This table shows the number of alerts of each alert type, together with the alert type's risk level.

(The percentages in brackets represent each count as a percentage, rounded to one decimal place, of the total number of alerts included in this report.)

Alert type	Risk	Count
Open Redirect	High	1 (6.2%)
SQL Injection - SQLite	High	3 (18.8%)
CSP: Wildcard Directive	Medium	5 (31.2%)
Content Security Policy (CSP) Header Not Set	Medium	326 (2,037.5%)
Cross-Domain Misconfiguration	Medium	361 (2,256.2%)
Missing Anti-clickjacking Header	Medium	80 (500.0%)
Session ID in URL Rewrite	Medium	373 (2,331.2%)
Application Error Disclosure	Low	7 (43.8%)
Cross-Domain JavaScript Source File Inclusion	Low	460 (2,875.0%)
Private IP Disclosure	Low	1 (6.2%)
Timestamp Disclosure - Unix	Low	5 (31.2%)
X-Content-Type-Options Header Missing	Low	372 (2,325.0%)
Authentication Request Identified	Informational	2 (12.5%)
Information Disclosure - Suspicious Comments	Informational	2 (12.5%)
Modern Web Application	Informational	231 (1,443.8%)
User Agent Fuzzer	Informational	108 (675.0%)
Total		16

Alerts

- Risk=High, Confidence=Medium (2)**

1. <http://localhost:3000> (2)

1. [Open Redirect](#) (1)

► GET <http://localhost:3000/redirect?to=https://github.com/juice-shop/juice-shop>

2. [SQL Injection - SQLite](#) (1)

► GET <http://localhost:3000/rest/products/search?q=%27%28>

2. Risk=Medium, Confidence=High (3)

1. <http://localhost:3000> (3)

1. [CSP: Wildcard Directive](#) (1)

► GET <http://localhost:3000/assets>

2. [Content Security Policy \(CSP\) Header Not Set](#) (1)

► GET <http://localhost:3000/>

3. [Session ID in URL Rewrite](#) (1)

► POST <http://localhost:3000/socket.io/?EIO=4&transport=polling&t=PMLNpi0&sid=JRhUHDUo60e2ORz7AAAC>

3. Risk=Medium, Confidence=Medium (2)

1. <http://localhost:3000> (2)

1. [Cross-Domain Misconfiguration](#) (1)

► GET <http://localhost:3000/>

2. [Missing Anti-clickjacking Header](#) (1)

► POST <http://localhost:3000/socket.io/?EIO=4&transport=polling&t=PMLNpi0&sid=JRhUHDUo60e2ORz7AAAC>

4. Risk=Low, Confidence=Medium (4)

1. <http://localhost:3000> (4)

1. [Application Error Disclosure](#) (1)

► GET <http://localhost:3000/api>

2. [Cross-Domain JavaScript Source File Inclusion](#) (1)

► GET <http://localhost:3000/>

3. [Private IP Disclosure](#) (1)

► GET <http://localhost:3000/rest/admin/application-configuration>

4. [X-Content-Type-Options Header Missing](#) (1)

► GET <http://localhost:3000/socket.io/?EIO=4&transport=polling&t=PMLNpX7>

5. Risk=Low, Confidence=Low (1)

1. <http://localhost:3000> (1)

1. [Timestamp Disclosure - Unix](#) (1)

► GET <http://localhost:3000/main.js>

6. Risk=Informational, Confidence=High (1)

1. <http://localhost:3000> (1)

1. [Authentication Request Identified](#) (1)

► POST <http://localhost:3000/rest/user/login>

7. Risk=Informational, Confidence=Medium (2)

1. http://localhost:3000 (2)

1. [Modern Web Application](#) (1)

► GET http://localhost:3000/

2. [User Agent Fuzzer](#) (1)

► POST http://localhost:3000/socket.io/?EIO=4&transport=polling&t=PMLNqTM&sid=uv_TUdtuKpIebnQVAAAD

8. Risk=Informational, Confidence=Low (1)

1. http://localhost:3000 (1)

1. [Information Disclosure - Suspicious Comments](#) (1)

► GET http://localhost:3000/main.js

Appendix

Alert types

This section contains additional information on the types of alerts in the report.

1. Open Redirect

Source raised by a passive scanner ([Open Redirect](#))

CWE ID [601](#)

WASC ID 38

Reference 1. https://cheatsheetseries.owasp.org/cheatsheets/Unvalidated_Redirects_and_Forwards_Cheat_Sheet.html
2. <https://cwe.mitre.org/data/definitions/601.html>

2. SQL Injection - SQLite

Source raised by an active scanner ([SQL Injection](#))

CWE ID [89](#)

WASC ID 19

Reference 1. https://cheatsheetseries.owasp.org/cheatsheets/SQL_Injection_Prevention_Cheat_Sheet.html

3. CSP: Wildcard Directive

Source raised by a passive scanner ([CSP](#))

CWE ID [693](#)

WASC ID 15

Reference 1. <https://www.w3.org/TR/CSP/>
2. <https://caniuse.com/#search=content+security+policy>
3. <https://content-security-policy.com/>
4. <https://github.com/HtmlUnit/htmlunit-csp>
5. https://developers.google.com/web/fundamentals/security/csp#policy_applies_to_a_wide_variety_of_resources

4. Content Security Policy (CSP) Header Not Set

Source raised by a passive scanner ([Content Security Policy \(CSP\) Header Not Set](#))

CWE ID [693](#)

WASC ID 15

Reference 1. https://developer.mozilla.org/en-US/docs/Web/Security/CSP/Introducing_Content_Security_Policy
2. https://cheatsheetseries.owasp.org/cheatsheets/Content_Security_Policy_Cheat_Sheet.html
3. <https://www.w3.org/TR/CSP/>
4. <https://w3c.github.io/webappsec-csp/>
5. <https://web.dev/articles/csp>
6. <https://caniuse.com/#feat=contentsecuritypolicy>
7. <https://content-security-policy.com/>

5. Cross-Domain Misconfiguration

Source raised by a passive scanner ([Cross-Domain Misconfiguration](#))

CWE ID [264](#)

WASC ID 14

Reference 1. https://vulncat.fortify.com/en/detail?id=desc.config.dotnet.html5_overly_permissive_cors_policy

6. Missing Anti-clickjacking Header

Source raised by a passive scanner ([Anti-clickjacking Header](#))

CWE ID [1021](#)

WASC ID 15

Reference 1. <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options>

7. Session ID in URL Rewrite

Source raised by a passive scanner ([Session ID in URL Rewrite](#))

CWE ID [598](#)

WASC ID 13

Reference 1. <https://seclists.org/webappsec/2002/q4/111>

8. Application Error Disclosure

Source raised by a passive scanner ([Application Error Disclosure](#))

CWE ID [550](#)

WASC ID 13

9. Cross-Domain JavaScript Source File Inclusion

Source raised by a passive scanner ([Cross-Domain JavaScript Source File Inclusion](#))

CWE ID [829](#)

WASC ID 15

10. Private IP Disclosure

Source raised by a passive scanner ([Private IP Disclosure](#))

CWE ID [497](#)

WASC ID 13

Reference 1. <https://tools.ietf.org/html/rfc1918>

11. Timestamp Disclosure - Unix

Source raised by a passive scanner ([Timestamp Disclosure](#))

CWE ID [497](#)

WASC ID 13

Reference 1. <https://cwe.mitre.org/data/definitions/200.html>

12. X-Content-Type-Options Header Missing

Source raised by a passive scanner ([X-Content-Type-Options Header Missing](#))

CWE ID [693](#)

WASC ID 15

Reference 1. [https://learn.microsoft.com/en-us/previous-versions/windows/internet-explorer/ie-developer/compatibility/gg622941\(v=vs.85\)](https://learn.microsoft.com/en-us/previous-versions/windows/internet-explorer/ie-developer/compatibility/gg622941(v=vs.85))
2. <https://owasp.org/www-community/Security-Headers>

13. Authentication Request Identified

Source raised by a passive scanner ([Authentication Request Identified](#))

Reference 1. <https://www.zaproxy.org/docs/desktop/addons/authentication-helper/auth-req-id/>

14. Information Disclosure - Suspicious Comments

Source raised by a passive scanner ([Information Disclosure - Suspicious Comments](#))

CWE ID [615](#)

WASC ID 13

15. Modern Web Application

Source raised by a passive scanner ([Modern Web Application](#))

16. User Agent Fuzzer

Source raised by an active scanner ([plugin ID: 10104](#))

Reference 1. <https://owasp.org/wstg>