




 Secrets


 ABAP


 Apex


 C


 C++


 CloudFormation


 COBOL


 C#


 CSS


 Flex


 Go


 HTML


 Java


 JavaScript


 Kotlin


 Objective C


 PHP


 PL/I


 PL/SQL


 Python


 RPG


 Ruby


 Scala


 Swift


 Terraform


 Text


 TypeScript

 T-SQL

 VB.NET

 VB6

 XML



JavaScript static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your JAVASCRIPT code

All rules285

Vulnerability29

Bug62

Security Hotspot43

Code Smell151

Quick Fix41

Tags ▾

Search by name... 🔍

Object literal shorthand syntax should be used

Code Smell

Strings and non-strings should not be added

Code Smell

Object literal syntax should be used

Code Smell

"undefined" should not be assigned

Code Smell

Trailing commas should not be used

Code Smell

Array constructors should not be used

Code Smell

Quotes for string literals should be used consistently

Code Smell

Statements should end with semicolons

Code Smell

Comments should not be located at the end of lines of code

Code Smell

Loops should not contain more than a single "break" or "continue" statement

Code Smell

Variable, property and parameter names should comply with a naming convention

Code Smell

Lines should not end with trailing whitespaces

Code Smell

Disabling resource integrity features is security-sensitive

Analyze your code

Security Hotspot

Minor ?

cwe owasp

Fetching external resources, for example from a CDN, without verifying their integrity could impact the security of an application if the CDN gets compromised and resources are replaced by malicious ones. Resources integrity feature will block resources inclusion into an application if the pre-computed digest of the expected resource doesn't match with the digest of the retrieved resource.

Ask Yourself Whether

- The resources are fetched from external CDNs.

There is a risk if you answered yes to this question.

Recommended Secure Coding Practices

- implement resources integrity checks for all static resources (where "static" means that the resource's content doesn't change dynamically based on the browser)
- use versioned resources instead of using "latest" version of the resources

Sensitive Code Example

```
let script = document.createElement("script"); // Sensitive
script.src = "https://cdnexample.com/script-latest.js";
script.crossOrigin = "anonymous";
document.head.appendChild(script);
```

Compliant Solution

```
let script = document.createElement("script");
script.src = "https://cdnexample.com/script-v1.2.3.js";
script.integrity = "sha384-oqVuAfXRKap7fdgcCY5uykM6+R9GqQ8K/";
script.crossOrigin = "anonymous";
document.head.appendChild(script);
```

See

- [OWASP Top 10 2021 Category A8](#) - Software and Data Integrity Failures
- [MITRE, CWE-353](#) - Missing Support for Integrity Check
- [OWASP Top 10 2017 Category A6](#) - Security Misconfiguration
- [developer.mozilla.org](#) - Subresource Integrity

Available In:

sonarcloud

sonarqube

https://rules.sonarsource.com/javascript/RSPEC-5725

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1/2

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Files should contain an empty newliine at the end

 Code Smell

An open curly brace should be located at the end of a line

 Code Smell

Tabulation characters should not be used

 Code Smell

Function and method names should comply with a naming convention

 Code Smell