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JavaScript static code analysis

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

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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

Executing XPath expressions is security-sensitive

Analyze your code

Security HotspotCritical

Executing XPATH expressions is security-sensitive. It has led in the past to the following vulnerabilities:

- [CVE-2016-6272](#)
- [CVE-2016-9149](#)
- [CVE-2012-4837](#)

User-provided data such as URL parameters should always be considered as untrusted and tainted. Constructing XPath expressions directly from tainted data enables attackers to inject specially crafted values that changes the initial meaning of the expression itself. Successful XPath injections attacks can read sensitive information from the XML document.

Ask Yourself Whether

- the XPATH expression might contain some unsafe input coming from a user.

You are at risk if you answered yes to this question.

Recommended Secure Coding Practices

Sanitize any user input before using it in an XPATH expression.

Sensitive Code Example

```
// === Server side ===

var xpath = require('xpath');
var xmlDom = require('xmldom');

var doc = new xmlDom.DOMParser().parseFromString(xml);
var nodes = xpath.select(userinput, doc); // Sensitive
var node = xpath.select1(userinput, doc); // Sensitive

// === Client side ===

// Chrome, Firefox, Edge, Opera, and Safari use the evaluate
var nodes = document.evaluate(userinput, xmlDoc, null, XPath

// Internet Explorer uses its own methods to select nodes:
var nodes = xmlDoc.selectNodes(userinput); // Sensitive
var node = xmlDoc.SelectSingleNode(userinput); // Sensitive
```

See

- [OWASP Top 10 2017 Category A1](#) - Injection
- [MITRE, CWE-643](#) - Improper Neutralization of Data within XPath Expressions

Deprecated

https://rules.sonarsource.com/javascript/RSPEC-4817

1/2

<div>Files should contain an empty newline at the end</div> <div>Code Smell</div>	<div>This rule is deprecated, and will eventually be removed.</div> <div>Available In: sonarcloud sonarqube</div>
<div>An open curly brace should be located at the end of a line</div> <div>Code Smell</div>	
<div>Tabulation characters should not be used</div> <div>Code Smell</div>	
<div>Function and method names should comply with a naming convention</div> <div>Code Smell</div>	

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