

- 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



C# static code analysis

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

All rules 409

Vulnerability 34

Bug 76

Security Hotspot 28

Code Smell 271

Quick Fix 52

Tags ▾

Search by name... 🔍

"protected" members

Code Smell

Underscores should be used to make large numbers readable

Code Smell

"ToString()" calls should not be redundant

Code Smell

"==" should not be used when "Equals" is overridden

Code Smell

An abstract class should have both abstract and concrete methods

Code Smell

Multiple variables should not be declared on the same line

Code Smell

Culture should be specified for "string" operations

Code Smell

"switch" statements should have at least 3 "case" clauses

Code Smell

break statements should not be used except for switch cases

Code Smell

String literals should not be duplicated

Code Smell

Files should contain an empty newline at the end

Code Smell

Unused "using" should be removed

Code Smell

Writing cookies is security-sensitive

Analyze your code

Security Hotspot Minor ⓘ

Using cookies is security-sensitive. It has led in the past to the following vulnerabilities:

- [CVE-2018-11639](#)
- [CVE-2016-6537](#)

Attackers can use widely-available tools to read cookies. Any sensitive information they may contain will be exposed.

This rule flags code that writes cookies.

Ask Yourself Whether

- sensitive information is stored inside the cookie.

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

Recommended Secure Coding Practices

Cookies should only be used to manage the user session. The best practice is to keep all user-related information server-side and link them to the user session, never sending them to the client. In a very few corner cases, cookies can be used for non-sensitive information that need to live longer than the user session.

Do not try to encode sensitive information in a non human-readable format before writing them in a cookie. The encoding can be reverted and the original information will be exposed.

Using cookies only for session IDs doesn't make them secure. Follow [OWASP best practices](#) when you configure your cookies.

As a side note, every information read from a cookie should be [Sanitized](#).

Sensitive Code Example

```
// === .Net Framework ===

HttpCookie myCookie = new HttpCookie("UserSettings");
myCookie["CreditCardNumber"] = "1234 1234 1234 1234"; // Sensitive
myCookie.Values["password"] = "5678"; // Sensitive
myCookie.Value = "mysecret"; // Sensitive
...
Response.Cookies.Add(myCookie);

// === .Net Core ===

Response.Headers.Add("Set-Cookie", ...); // Sensitive
Response.Cookies.Append("mykey", "myValue"); // Sensitive
```

See

- [OWASP Top 10 2017 Category A3](#) - Sensitive Data Exposure

A close curly brace should be located at the beginning of a line

 Code Smell

Tabulation characters should not be used

 Code Smell

Methods and properties should be named in PascalCase

 Code Smell

Track uses of in-source issue suppressions

 Code Smell

- [MITRE, CWE-312](#) - Cleartext Storage of Sensitive Information
- [MITRE, CWE-315](#) - Cleartext Storage of Sensitive Information in a Cookie
- Derived from FindSecBugs rule [COOKIE_USAGE](#)

Deprecated

This rule is deprecated, and will eventually be removed.

Available In:

sonarcloud  | **sonarqube** 

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