

- Secrets
- ABAP
- Apex
- C
- C++
- CloudFormation
- COBOL
- C# 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

Searching OS commands in PATH is security-sensitive

Analyze your code

Security Hotspot Minor ? cwe owasp

When executing an OS command and unless you specify the full path to the executable, then the locations in your application's PATH environment variable will be searched for the executable. That search could leave an opening for an attacker if one of the elements in PATH is a directory under his control.

Ask Yourself Whether

- The directories in the PATH environment variable may be defined by not trusted entities.

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

Recommended Secure Coding Practices

Fully qualified/absolute path should be used to specify the OS command to execute.

Sensitive Code Example

```
Process p = new Process();
p.StartInfo.FileName = "binary"; // Sensitive
```

Compliant Solution

```
Process p = new Process();
p.StartInfo.FileName = @"C:\Apps\binary.exe"; // Compliant
```

See

- OWASP Top 10 2021 Category A8 - Software and Data Integrity Failures
- OWASP Top 10 2017 Category A1 - Injection
- MITRE, CWE-426 - Untrusted Search Path
- MITRE, CWE-427 - Uncontrolled Search Path Element

Available In:

sonarcloud | sonarqube

**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