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C# static code analysis

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

All rules 409

Vulnerability 34

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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

Generic exceptions should not be ignored

Analyze your code

Code Smell Minor cwe error-handling owasp suspicious

When exceptions occur, it is usually a bad idea to simply ignore them. Instead, it is better to handle them properly, or at least to log them.

This rule only reports on empty catch clauses that catch generic Exceptions.

Noncompliant Code Example

```
string text = "";
try
{
    text = File.ReadAllText(fileName);
}
catch (Exception exc) // Noncompliant
{
}
```

Compliant Solution

```
string text = "";
try
{
    text = File.ReadAllText(fileName);
}
catch (Exception exc)
{
    logger.Log(exc);
}
```

Exceptions

When a block contains a comment, it is not considered to be empty.

See

- OWASP Top 10 2021 Category A9 - Security Logging and Monitoring Failures
- OWASP Top 10 2017 Category A10 - Insufficient Logging & Monitoring
- MITRE, CWE-390 - Detection of Error Condition Without Action

Available In:

sonarlint | 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