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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

Bug 76

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Code Smell
Static fields should not be updated in constructors
Code Smell
"IEnumerable" LINQs should be simplified
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Fields that are only assigned in the constructor should be "readonly"
Code Smell
Static fields should not be used in generic types
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Multiline blocks should be enclosed in curly braces
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Boolean expressions should not be gratuitous
Code Smell
Types and methods should not have too many generic parameters
Code Smell
Write-only properties should not be used
Code Smell
Exceptions should not be thrown from property getters
Code Smell
Unused type parameters should be removed
Code Smell
Parameters should be passed in the correct order
Code Smell

## Members should not have conflicting transparency annotations

Analyze your code

Vulnerability Major owasp pitfall

Transparency attributes, `SecurityCriticalAttribute` and `SecuritySafeCriticalAttribute` are used to identify code that performs security-critical operations. The second one indicates that it is safe to call this code from transparent, while the first one does not. Since the transparency attributes of code elements with larger scope take precedence over transparency attributes of code elements that are contained in the first element a class, for instance, with a `SecurityCriticalAttribute` can not contain a method with a `SecuritySafeCriticalAttribute`.

This rule raises an issue when a member is marked with a `System.Security` security attribute that has a different transparency than the security attribute of a container of the member.

### Noncompliant Code Example

```
using System;
using System.Security;

namespace MyLibrary
{
    [SecurityCritical]
    public class Foo
    {
        [SecuritySafeCritical] // Noncompliant
        public void Bar()
        {
        }
    }
}
```

### Compliant Solution

```
using System;
using System.Security;

namespace MyLibrary
{
    [SecurityCritical]
    public class Foo
    {
        public void Bar()
        {
        }
    }
}
```

Two branches in a conditional structure should not have exactly the same implementation

 Code Smell

Unused assignments should be removed

 Code Smell

Tests should not be ignored

 Code Smell

"switch" statements should not have too many "case" clauses

 Code Smell

See

- [OWASP Top 10 2021 Category A5](#) - Security Misconfiguration
- [OWASP Top 10 2017 Category A6](#) - Security Misconfiguration

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