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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

Security Hotspot 28

Code Smell 271

Quick Fix 52

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Empty collections should not be accessed or iterated

Bug

Mutable, non-private fields should not be "readonly"

Bug

"string.ToCharArray()" should not be called redundantly

Bug

"base.Equals" should not be used to check for reference equality in "Equals" if "base" is not "object"

Bug

Property assignments should not be made for "readonly" fields not constrained to reference types

Bug

Flags enumerations should explicitly initialize all their members

Bug

"GetHashCode" should not reference mutable fields

Bug

Results of integer division should not be assigned to floating point variables

Bug

Integral numbers should not be shifted by zero or more than their number of bits-1

Bug

"Equals(Object)" and "GetHashCode()" should be overridden in pairs

Bug

Having a permissive Cross-Origin Resource Sharing policy is security-sensitive

Caller information parameters should come at the end of the parameter list

Analyze your code

Bug Major api-design

Caller information attributes (`CallerFilePathAttribute`, `CallerLineNumberAttribute`, and `CallerMemberNameAttribute`) provide a way to get information about the caller of a method through optional parameters. But they only work right if their values aren't provided explicitly. So if you define a method with caller info attributes in the middle of the parameter list, you put your callers in a bad position: they are forced to use named arguments if they want to use the method properly.

Noncompliant Code Example

```
void TraceMessage([CallerMemberName] string memberName = "",
    [CallerFilePath] string filePath = "",
    [CallerLineNumber] int lineNumber = 0,
    string message = null) // Noncompliant
{
    /* ... */
}
```

Compliant Solution

```
void TraceMessage(string message = null,
    [CallerMemberName] string memberName = "",
    [CallerFilePath] string filePath = "",
    [CallerLineNumber] int lineNumber = 0)
{
    /* ... */
}
```

Available In:

sonarlint sonarcloud sonarqube

 Security Hotspot

Delivering code in production with debug features activated is security-sensitive

 Security Hotspot

Searching OS commands in PATH is security-sensitive

 Security Hotspot

Creating cookies without the "HttpOnly" flag is security-sensitive

 Security Hotspot

Creating cookies without the "secure" flag is security-sensitive