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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 |

Tags ⌄   Search by name... 🔍

Using weak hashing algorithms is security-sensitive

🛡 Security Hotspot

Disabling CSRF protections is security-sensitive

🛡 Security Hotspot

Using non-standard cryptographic algorithms is security-sensitive

🛡 Security Hotspot

Using pseudorandom number generators (PRNGs) is security-sensitive

🛡 Security Hotspot

Parameter names should match base declaration and other partial definitions

☢ Code Smell

"ValueTask" should be consumed correctly

☢ Code Smell

String offset-based methods should be preferred for finding substrings from offsets

☢ Code Smell

"default" clauses should be first or last

☢ Code Smell

Unread "private" fields should be removed

☢ Code Smell

Base class methods should not be hidden

☢ Code Smell

Inherited member visibility should not be decreased

☢ Code Smell

Threads should not lock on objects

Public methods should not have multidimensional array parameters

Analyze your code

☢ Code Smell   ❗ Blocker ❓   🏷 pitfall

Exposing methods with multidimensional array parameters requires developers to have advanced knowledge about the language in order to be able to use them. Moreover, what exactly to pass to such parameters is not intuitive. Therefore, such methods should not be exposed, but can be used internally.

Noncompliant Code Example

```
public class Program
{
    public void WriteMatrix(int[][] matrix) // Non-Compliant
    {
    }
}
```

Compliant Solution

```
public class Matrix
{
    // ...
}

public class Program
{
    public void WriteMatrix(Matrix matrix) // Compliant
    {
    }
}
```

Available In:

sonarlint ◌◌   sonarcloud ☁   sonarqube 📶

Threads should not lock on objects
with weak identity

⊗ Code Smell

A conditionally executed single line
should be denoted by indentation

⊗ Code Smell

Conditionals should start on new lines

⊗ Code Smell

Assemblies should have version
information

⊗ Code Smell

Exception types should be "public"