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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 271

Quick Fix 52

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Shared resources should not be used for locking



Locks should be released



Using publicly writable directories is security-sensitive



Using clear-text protocols is security-sensitive



Expanding archive files without controlling resource consumption is security-sensitive



Configuring loggers is security-sensitive



Using weak hashing algorithms is security-sensitive



Disabling CSRF protections is security-sensitive



Using non-standard cryptographic algorithms is security-sensitive



Using pseudorandom number generators (PRNGs) is security-sensitive



Parameter names should match base declaration and other partial definitions



"is" should not be used with "this"

Analyze your code

Code Smell Blocker api-design bad-practice

There's no valid reason to test `this` with `is`. The only plausible explanation for such a test is that you're executing code in a parent class conditionally based on the kind of child class `this` is. But code that's specific to a child class should be *in* that child class, not in the parent.

Noncompliant Code Example

```
public class JunkFood
{
    public void DoSomething()
    {
        if (this is Pizza) // Noncompliant
        {
            // ...
        } else if (...)
        {
        }
    }
}
```

Available In:

sonarlint sonarcloud sonarqube

"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