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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... 🔍

Server-side requests should not be vulnerable to forging attacks

Vulnerability

Members should not have conflicting transparency annotations

Vulnerability

"PartCreationPolicyAttribute" should be used with "ExportAttribute"

Bug

"ConstructorArgument" parameters should exist in constructors

Bug

Windows Forms entry points should be marked with STAThread

Bug

Collection elements should not be replaced unconditionally

Bug

Exceptions should not be created without being thrown

Bug

Collection sizes and array length comparisons should make sense

Bug

Serialization event handlers should be implemented correctly

Bug

Deserialization methods should be provided for "OptionalField" members

Bug

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

Bug

Types should be defined in named namespaces

Shared resources should not be used for locking

Analyze your code

Bug Critical multi-threading

Shared resources should not be used for locking as it increases the chance of deadlocks. Any other thread could acquire (or attempt to acquire) the same lock for another unrelated purpose.

Instead, a dedicated object instance should be used for each shared resource, to avoid deadlocks or lock contention.

The following objects are considered as shared resources:

- this
- a Type object
- a string literal
- a string instance

Noncompliant Code Example

```
public void MyLockingMethod()
{
    lock (this) // Noncompliant
    {
        // ...
    }
}
```

Compliant Solution

```
private readonly object lockObj = new object();





public void MyLockingMethod()
{
    lock (lockObj)
    {
        // ...
    }
}
```

See

[Microsoft Documentation: Managed Threading Best Practices](#)

Available In:

sonarlint | sonarcloud | sonarqube

namespaces
 Bug
Empty nullable value should not be accessed
 Bug
Nullable type comparison should not be redundant
 Bug
Methods with "Pure" attribute should return a value
 Bug
One-way "OperationContract" methods should have "void" return type