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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...

Code Smell

Utility classes should not have public constructors
Code Smell

Local variables should not shadow class fields
Code Smell

Redundant pairs of parentheses should be removed
Code Smell

Inheritance tree of classes should not be too deep
Code Smell

Nested blocks of code should not be left empty
Code Smell

Methods should not have too many parameters
Code Smell

Collapsible "if" statements should be merged
Code Smell

OS commands should not be vulnerable to argument injection attacks
Vulnerability

Logging should not be vulnerable to injection attacks
Vulnerability

Empty collections should not be accessed or iterated
Bug

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

Nullable type comparison should not be redundant

Analyze your code

Bug | Major | redundant

Calling `GetType()` on a nullable object returns the underlying value type. Thus, comparing the returned `Type` object to `typeof(Nullable<SomeType>)` doesn't make sense. The comparison either throws an exception or the result can be known at compile time.

Noncompliant Code Example

```
int? nullable = 42;
bool comparison = nullable.GetType() == typeof(Nullable<int>
comparison = nullable.GetType() != typeof(Nullable<int>); //

nullable = null;
comparison = nullable.GetType() != typeof(Nullable<int>); //
```

Available In:

sonarlint | sonarcloud | sonarqube

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