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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

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Quick Fix 52

Tags

Search by name...



Vulnerability

Cipher Block Chaining IVs should be unpredictable

Vulnerability

Regular expressions should not be vulnerable to Denial of Service attacks

Vulnerability

Hashes should include an unpredictable salt

Vulnerability

Non-async "Task/Task<T>" methods should not return null

Bug

Calls to delegate's method "BeginInvoke" should be paired with calls to "EndInvoke"

Bug

"Shared" parts should not be created with "new"

Bug

Getters and setters should access the expected fields

Bug

Right operands of shift operators should be integers

Bug

Shared resources should not be used for locking

Bug

Locks should be released

Bug

Using publicly writable directories is security-sensitive

Security Hotspot

Test method signatures should be correct

Analyze your code

Code Smell Blocker tests

A method is detected as test method if marked with one of the following attributes [TestMethod] or [DataTestMethod] (for mstest), [Fact] or [Theory] (for xunit) or [Test], [TestCase], [TestCaseSource] or [Theory] (for nunit). However, whether or not they have a test attribute, non-public methods are not recognized as tests, and therefore not executed. Neither are async void methods, or methods with generics anywhere in their signatures.

Noncompliant Code Example

```
[TestMethod]
void TestNullArg() // Noncompliant; method is not public
{ /* ... */ }

[TestMethod]
public async void MyIgnoredTestMethod() // Noncompliant; th
{ /* ... */ }

[TestMethod]
public void MyIgnoredGenericTestMethod<T>(T foo) // Noncomp
{ /* ... */ }
```

Compliant Solution

```
[TestMethod]
public void TestNullArg()
{ /* ... */ }
```

Exceptions

Accessibility is ignored for xUnit Fact test methods, since they do not need to be public.

[Theory] test methods in xUnit and [TestCase] and [TestCaseSource] test methods in nunit can be generic.

Available In:

sonarlint sonarcloud sonarqube

Using clear-text protocols is security-sensitive

 Security Hotspot

Expanding archive files without controlling resource consumption is security-sensitive

 Security Hotspot

Configuring loggers is security-sensitive

 Security Hotspot

Using weak hashing algorithms is security-sensitive

 Security Hotspot