





C# static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C# code







Security Hotspot (28)

O Quick 52 Fix

Tags

Search by name..

₩ Bua Property assignments should not be made for "readonly" fields not constrained to reference types

Rug Bug

Flags enumerations should explicitly initialize all their members

"GetHashCode" should not reference mutable fields

₩ Bua

Results of integer division should not be assigned to floating point variables

🕦 Bug

Integral numbers should not be shifted by zero or more than their number of bits-1

Bug

"Equals(Object)" and "GetHashCode()" should be overridden in pairs

📆 Bug

Having a permissive Cross-Origin Resource Sharing policy is securitysensitive

Security Hotspot

Delivering code in production with debug features activated is securitysensitive

Security Hotspot

Searching OS commands in PATH is security-sensitive

Security Hotspot

Creating cookies without the "HttpOnly" flag is security-sensitive

Security Hotspot

Classes directly extending "object" should not call "base" in "GetHashCode" or "Equals"

Analyze your code

🙀 Bug 🔷 Major 🕝

Making a base call in an overriding method is generally a good idea, but not in GetHashCode and Equals for classes that directly extend object because those methods are based on the object reference. Meaning that no two objects that use those base methods will ever be equal or have the same hash.

Noncompliant Code Example

```
public class Point
 private readonly int x;
 public MyClass(int x)
   this.x = x;
 public override int GetHashCode()
   return x.GetHashCode() ^ base.GetHashCode(); //Noncompli
```

Compliant Solution

```
public class Point
 private readonly int x;
 public MyClass(int x)
   this.x = x;
 public override int GetHashCode()
    return x.GetHashCode();
```

This rule doesn't report on guard conditions checking for reference equality.

```
public class Point
  public override bool Equals(object obj)
    if (base.Equals(obj)) // Compliant, although it could be
      return true;
```

Creating cookies without the "secure" flag is security-sensitive

Security Hotspot

Literal suffixes should be upper case
Code Smell

Null checks should not be used with "is"
Code Smell

Method overloads should be grouped together
Code Smell

"params" should be used instead of

}	
Available In: sonarlint ⊖ sonarcloud ∴ sonarqube	

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