Secrets
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C
C++
CloudFormation
COBOL
C#
CSS
Flex
Go
HTML
Java
JavaScript
Kotlin
Objective C
PHP
PL/I
PL/SQL
Python
RPG
Ruby
Scala
Swift
Terraform
Text
TypeScript
T-SQL
VB.NET
VB6
XML

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...

"protected" members
Code Smell

Underscores should be used to make large numbers readable
Code Smell

"ToString()" calls should not be redundant
Code Smell

"==" should not be used when "Equals" is overridden
Code Smell

An abstract class should have both abstract and concrete methods
Code Smell

Multiple variables should not be declared on the same line
Code Smell

Culture should be specified for "string" operations
Code Smell

"switch" statements should have at least 3 "case" clauses
Code Smell

break statements should not be used except for switch cases
Code Smell

String literals should not be duplicated
Code Smell

Files should contain an empty newline at the end
Code Smell

Unused "using" should be removed
Code Smell

"System.Uri" arguments should be used instead of strings

Analyze your code

Code Smell | Major

String representations of URIs or URLs are prone to parsing and encoding errors which can lead to vulnerabilities. The `System.Uri` class is a safe alternative and should be preferred.

This rule raises an issue when a called method has a string parameter with a name containing "uri", "Uri", "urn", "Urn", "url" or "Url" and the declaring type contains a corresponding overload that takes a `System.Uri` as a parameter.

When there is a choice between two overloads that differ only regarding the representation of a URI, the user should choose the overload that takes a `System.Uri` argument.

Noncompliant Code Example

```
using System;

namespace MyLibrary
{
   public class Foo
   {
      public void FetchResource(string uriString) { }
      public void FetchResource(Uri uri) { }

      public string ReadResource(string uriString, string na
      public string ReadResource(Uri uri, string name, bool

      public void Main() {
        FetchResource("http://www.mysite.com"); // Noncompli
        ReadResource("http://www.mysite.com", "foo-resource"
      }
   }
}
```

Compliant Solution

```
using System;

namespace MyLibrary
{
   public class Foo
   {
      public void FetchResource(string uriString) { }
      public void FetchResource(Uri uri) { }

      public string ReadResource(string uriString, string na
      public string ReadResource(Uri uri, string name, bool

      public void Main() {
        FetchResource(new Uri("http://www.mysite.com"));
        ReadResource(new Uri("http://www.mysite.com"), "foo-
```

A close curly brace should be located at the beginning of a line

Code Smell

Tabulation characters should not be used

Code Smell

Methods and properties should be named in PascalCase

Code Smell

Track uses of in-source issue suppressions

Code Smell

```
        }
    }
}
```

Available In:

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