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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

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"GC.Collect" should not be called

Code Smell

Methods should not be empty

Code Smell

Exceptions should not be thrown in finally blocks

Code Smell

Method overrides should not change parameter defaults

Code Smell

Types allowed to be deserialized should be restricted

Vulnerability

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

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

Analyze your code

Bug Critical ? mef pitfall

Marking a class with `PartCreationPolicy(CreationPolicy.Shared)`, which is part of Managed Extensibility Framework (MEF), means that a single, shared instance of the exported object will be created. Therefore it doesn't make sense to create new instances using the constructor and it will most likely result in unexpected behaviours.

This rule raises an issue when a constructor of a class marked shared with a `PartCreationPolicyAttribute` is invoked.

### Noncompliant Code Example

```
[Export(typeof(IFooBar))]
[PartCreationPolicy(CreationPolicy.Shared)]
public class FooBar : IFooBar
{
}

public class Program
{
    public static void Main()
    {
        var fooBar = new FooBar(); // Noncompliant;
    }
}
```





### Compliant Solution

```
[Export(typeof(IFooBar))]
[PartCreationPolicy(CreationPolicy.Shared)]
public class FooBar : IFooBar
{
}

public class Program
{
    public static void Main()
    {
        var fooBar = serviceProvider.GetService<IFooBar>();
    }
}
```

Available In:

sonarlint | sonarcloud | sonarqube

 Bug
<b>Collection sizes and array length comparisons should make sense</b>  Bug
<b>Serialization event handlers should be implemented correctly</b>  Bug
<b>Deserialization methods should be provided for "OptionalField" members</b>  Bug
<b>All branches in a conditional structure should not have exactly the same implementation</b>