

"value" parameters should be used

"is" should not be used with "this"

Methods named "Dispose" should implement "IDisposable.Dispose"

Tests should include assertions

Silly bit operations should not be

Public methods should not have multidimensional array parameters

"async" and "await" should not be used

A Code Smell

Code Smell

Code Smell

Code Smell

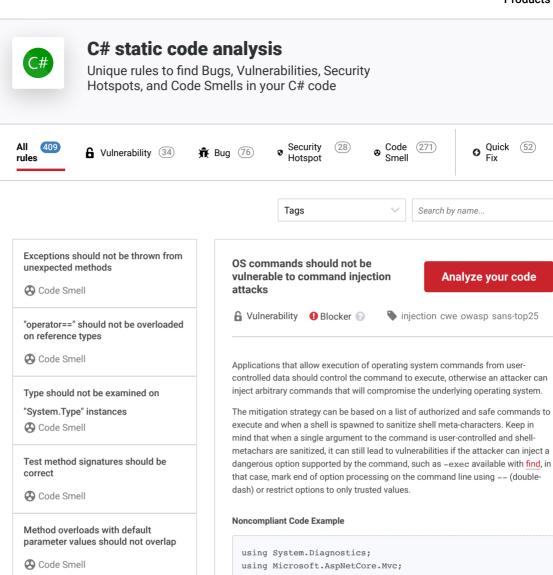
Code Smell

Code Smell

as identifiers

Code Smell

performed



## 

## Compliant Solution

```
using System.Diagnostics;
using System.Text.RegularExpressions;
using Microsoft.AspNetCore.Mvc;
```

## TestCases should contain tests

Code Smell

Short-circuit logic should be used in boolean contexts

Code Smell

JWT should be signed and verified with strong cipher algorithms

■ Vulnerability

Cipher algorithms should be robust

■ Vulnerability

Encryption algorithms should be used

```
namespace WebApplicationDotNetCore.Controllers
    public class RSPEC2076OSCommandInjectionCompliantControl
    {
        public IActionResult Index()
        {
            return View();
        public IActionResult Run(string binary)
            if (binary.Equals("/usr/bin/ls") || binary.Equal
               // only ls and cat commands are authorized
             Process p = new Process();
             p.StartInfo.FileName = binary; // Compliant
             p.StartInfo.RedirectStandardOutput = true;
             p.Start();
             string output = p.StandardOutput.ReadToEnd();
             p.Dispose();
            return View();
   }
}
```

## See

- OWASP Top 10 2021 Category A3 Injection
- OWASP OS Command Injection Defense Cheat Sheet
- OWASP Top 10 2017 Category A1 Injection
- MITRE, CWE-20 Improper Input Validation
- MITRE, CWE-78 Improper Neutralization of Special Elements used in an OS Command
- SANS Top 25 Insecure Interaction Between Components

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