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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

Tags ▾

Search by name... 🔍

Enumerations should have "Int32" storage

Code Smell

Generic methods should provide type parameters

Code Smell

Multidimensional arrays should not be used

Code Smell

"static readonly" constants should be "const" instead

Code Smell

Strings or integral types should be used for indexers

Code Smell

Parameter names should not duplicate the names of their methods

Code Smell

Track use of "NotImplementedException"

Code Smell

Empty "default" clauses should be removed

Code Smell

Redundant property names should be omitted in anonymous classes

Code Smell

Declarations and initializations should be as concise as possible

Code Smell

Default parameter values should not be passed as arguments

Code Smell

Constructor and destructor

Logging should not be vulnerable to injection attacks

Analyze your code

Vulnerability Minor injection cwe owasp sans-top25

User-provided data, such as URL parameters, POST data payloads or cookies, should always be considered untrusted and tainted. Applications logging tainted data could enable an attacker to inject characters that would break the log file pattern. This could be used to block monitors and SIEM (Security Information and Event Management) systems from detecting other malicious events.

This problem could be mitigated by sanitizing the user-provided data before logging it.

Noncompliant Code Example

```
using System;
using Microsoft.AspNetCore.Mvc;

namespace WebApplicationDotNetCore.Controllers
{
    public class RSPEC5145LogInjectionLog4NetNoncompliantCon
    {
        private static readonly log4net.ILog _logger = log4n

        public IActionResult Index()
        {
            return View();
        }

        public void LogSomething(string id)
        {
            if (id != null)
            {
                _logger.Info("ID: " + id);
            }
        }
    }
}
```

Compliant Solution

```
using System;
using Microsoft.AspNetCore.Mvc;

namespace WebApplicationDotNetCore.Controllers
{
    public class RSPEC5145LogInjectionLog4NetCompliantContro
    {
        private static readonly log4net.ILog _logger = log4n

        public IActionResult Index()
        {

```


declarations should not be redundant

 Code Smell

Method parameters should be declared with base types

 Code Smell

The simplest possible condition syntax should be used

 Code Smell

Redundant parentheses should not be used

 Code Smell

"GC.SuppressFinalize" should not be

```
        return View();
    }

    public void LogSomething(string id)
    {
        if (id != null)
        {
            // Replace pattern-breaking characters
            id = id.Replace('\n', '_').Replace('\r', '_');
            _logger.Info("ID: " + id);
        }
    }
}
```

See

- [OWASP Top 10 2021 Category A9](#) - Security Logging and Monitoring Failures
- [OWASP Cheat Sheet](#) - Logging
- [OWASP Attack Category](#) - Log Injection
- [OWASP Top 10 2017 Category A1](#) - Injection
- [MITRE, CWE-20](#) - Improper Input Validation
- [MITRE, CWE-117](#) - Improper Output Neutralization for Logs
- [SANS Top 25](#) - Insecure Interaction Between Components

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