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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**

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Code Smell **271**

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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

### HTTP response headers should not be vulnerable to injection attacks

Analyze your code

Vulnerability Minor injection

User-provided data, such as URL parameters, POST data payloads, or cookies, should always be considered untrusted and tainted. Applications constructing HTTP response headers based on tainted data could allow attackers to change security sensitive headers like Cross-Origin Resource Sharing headers.

Web application frameworks and servers might also allow attackers to inject new line characters in headers to craft malformed HTTP response. In this case the application would be vulnerable to a larger range of attacks like HTTP Response Splitting/Smuggling. Most of the time this type of attack is mitigated by default modern web application frameworks but there might be rare cases where older versions are still vulnerable.

As a best practice, applications that use user-provided data to construct the response header should always validate the data first. Validation should be based on a whitelist.

#### Noncompliant Code Example

```
string value = Request.QueryString["value"];
Response.AddHeader("X-Header", value); // Noncompliant
```

#### Compliant Solution

```
string value = Request.QueryString["value"];
// Allow only alphanumeric characters
if (value == null || !Regex.IsMatch(value, "^[a-zA-Z0-9]+$"))
{
    throw new Exception("Invalid value");
}
Response.AddHeader("X-Header", value);
```

#### See

- [OWASP Top 10 2021 Category A3](#) - Injection
- [OWASP Attack Category](#) - HTTP Response Splitting
- [MITRE, CWE-20](#) - Improper Input Validation
- [MITRE, CWE-113](#) - Improper Neutralization of CRLF Sequences in HTTP Headers ('HTTP Response Splitting')
- [SANS Top 25](#) - Insecure Interaction Between Components

#### Deprecated

This rule is deprecated; use {rule:csharpsquid:S5122}, {rule:csharpsquid:S5146}, {rule:csharpsquid:S6287} instead.

Available In:

sonarcloud sonarqube Developer Edition

**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

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