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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...

"SafeHandle.DangerousGetHandle" should not be called



Type inheritance should not be recursive



"IDisposable" should be disposed



SQL keywords should be delimited by whitespace



Composite format strings should not lead to unexpected behavior at runtime



Recursion should not be infinite



Destructors should not throw exceptions



Hard-coded credentials are security-sensitive



Exceptions should not be thrown from unexpected methods



"operator==" should not be overloaded on reference types



Type should not be examined on "System.Type" instances



Test method signatures should be correct

### A secure password should be used when connecting to a database

Analyze your code

Vulnerability Blocker cwe owasp

When relying on the password authentication mode for the database connection, a secure password should be chosen.

This rule raises an issue when an empty password is used.

#### Noncompliant Code Example

```
protected override void OnConfiguring(DbContextOptionsBuilderOptionsBuilder optionsBuilder)
{
    optionsBuilder.UseSqlServer("Server=myServerAddress;Database=...");
}
```

In Web.config

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <connectionStrings>
    <add name="myConnection" connectionString="Server=myServerAddress;Database=..." />
  </connectionStrings>
</configuration>
```

#### Compliant Solution

```
protected override void OnConfiguring(DbContextOptionsBuilderOptionsBuilder optionsBuilder)
{
    optionsBuilder.UseSqlServer("Server=myServerAddress;Database=...");
}
```

In Web.config

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <connectionStrings>
    <add name="myConnection" connectionString="Server=myServerAddress;Database=..." />
  </connectionStrings>
</configuration>
```

#### See

- [OWASP Top 10 2021 Category A7](#) - Identification and Authentication Failures
- [OWASP Top 10 2017 Category A2](#) - Broken Authentication
- [OWASP Top 10 2017 Category A3](#) - Sensitive Data Exposure
- [MITRE, CWE-521](#) - Weak Password Requirements

Available In:

 Code Smell

**Method overloads with default parameter values should not overlap**

 Code Smell

**"value" parameters should be used**

 Code Smell

**"is" should not be used with "this"**

 Code Smell

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

 Code Smell

**sonarlint**  | **sonarcloud**  | **sonarqube** 

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