



Apex

**c** c

C++

CloudFormation

COBOL COBOL

C# C#

**3** CSS

**⊠** Flex

**€60** Go

**THIML** 

Java

Js JavaScript

Kotlin

Kubernetes

**ó** Objective C

PHP

PL/I

PL/SQL PL/SQL

Python

RPG RPG

Ruby

Scala

Swift

**Terraform** 

**Text** 

TS TypeScript

T-SQL

VB VB.NET

VB6 VB6

XML XML



## **C++ static code analysis**

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C++ code

All 578
rules

Vulnerability 13

Reg Bug 111

Security 18
Hotspot

Security 18

Tags

"memset" should not be used to delete sensitive data Vulnerability POSIX functions should not be called with arguments that trigger buffer overflows ♠ Vulnerability XML parsers should not be vulnerable to XXE attacks ■ Vulnerability Function-like macros should not be invoked without all of their arguments 📆 Bug The address of an automatic object should not be assigned to another object that may persist after the first object has ceased to exist 📆 Bug Assigning to an optional should directly target the optional 📆 Bug Result of the standard remove algorithms should not be ignored 🖷 Bug "std::scoped\_lock" should be created with constructor arguments

"<cstdio>" should not be used Analyze your code based-on-misra lock-in This includes file and I/O functions fgetpos, fopen, ftell, gets, perror, remove, rename, etc. Streams and file I/O have a large number of unspecified, undefined and implementation-defined behaviors associated with them. **Noncompliant Code Example** #include <cstdio> /\* Noncompliant \*/ void fn() char\_t array[10]; /\* Can lead to buffer over-run \*/ gets(array); } • MISRA C++:2008, 27-0-1 - The stream input/output library <cstdio> shall not be used. Available In: sonarlint in sonarcloud color sonarqube Developer Edition

Search by name...

© 2008-2022 SonarSource S.A., Switzerland. All content is copyright protected. SONAR, SONARSOURCE, SONARLINT, SONARQUBE and SONARCLOUD are trademarks of SonarSource S.A. All other trademarks and copyrights are the property of their respective owners. All rights are expressly reserved.

Privacy Policy

```
should not be assigned to another object that may persist after the first object has ceased to exist

Rug

Assigning to an optional should directly target the optional

Bug

Result of the standard remove algorithms should not be ignored

Stat::scoped_lock" should be created with constructor arguments

Bug

Objects should not be sliced

Bug

Immediately dangling references should not be created

Bug

"pthread_mutex_t" should be unlocked in the reverse order they were locked

Bug

"pthread_mutex_t" should be properly initialized and destroyed

Bug

"pthread_mutex_t" should not be consecutively locked or unlocked
```

I
🖟 Bug
"std::move" and "std::forward" should not be confused
<b>∰</b> Bug
A call to "wait()" on a  "std::condition_variable" should have a  condition
n Bug
A pointer to a virtual base class shall only be cast to a pointer to a derived class by means of dynamic_cast
<b>ਜ਼ਿ</b> Bug
Functions with "noreturn" attribute should not return
👬 Bug
RAII objects should not be temporary
्रे Bug
"memcmp" should only be called with pointers to trivially copyable types with no padding
🙃 Bug
"memcpy", "memmove", and "memset" should only be called with pointers to trivially copyable types
🙃 Bug
"std::auto_ptr" should not be used
<b>n</b> Bug
Destructors should be "noexcept"
🖟 Bug