



**ABAP** 

Арех Арех

**c** C

© C++

CloudFormation

COBOL COBOL

C# C#

**E** CSS

**⊠** Flex

**€60** Go

HTML

🖺 Java

Js JavaScript

Kotlin

Kubernetes

Objective C

PHP

PL/I

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

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

📆 Bug

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📆 Bug

Objects should not be sliced

Immediately dangling references

"pthread\_mutex\_t" should be unlocked in the reverse order they were locked

"pthread\_mutex\_t" should be properly

"pthread\_mutex\_t" should not be consecutively locked or unlocked

initialized and destroyed

should not be created

The ternary operator should not be Analyze your code used brain-overload While the ternary operator is pleasingly compact, its use can make code more difficult to read. It should therefore be avoided in favor of the more verbose if/else structure. **Noncompliant Code Example** printf("%s", (i > 10 ? "yes" : "no")); **Compliant Solution** if (i > 10) { printf("yes"); } else { printf("no"); **Exceptions** For C++11 mode only, the issue is not raised for ternary operators used inside constexpr functions. In C++11 such functions are limited to just a return statement, so the use of a ternary operator is required in them. This restriction is lifted in later standards, and thus issues are raised. Available In: sonarlint sonarcloud sonarqube Developer Edition

Search by name...

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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