



SAP ABAP

Apex Apex

C C



CloudFormation

COBOL COBOL

C# C#

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Ó Objective C

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PL/SQL PL/SQL

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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
Bug 111
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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

📆 Bug

📆 Bug

📆 Bug

📆 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

"reinterpret_cast" should be used Analyze your code carefully suspicious • 🙀 Bug 🛮 春 Critical 🕝 Because reinterpret cast ignores the type system, it is capable of performing dangerous conversions between unrelated types which can lead to undefined behavior. This rule reports an issue for two problematic uses of reinterpret_cast: • when it is used to make the compiler believe that an object in memory is from a different type from its real type (for instance, casting a long* to double*, because accessing a long as if it was a double is undefined behavior (even if sizeof(long) == sizeof(double)), · when it is used to cast between different levels of a complex inheritance hierarchy (a static_cast would apply pointer offsets to take into account multiple inheritance, for instance, but reinterpret_cast does not) **Noncompliant Code Example** class X {}; class Y : virtual X {}; void test() { long 1; auto a = reinterpret_cast<double&>(1); // Noncompliant: und Y* у; auto x = reinterpret cast < X *> (y); // NoncompliantAvailable In: sonarlint ⊕ | sonarcloud 🔂 | sonarqube 🏋

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I
🖟 Bug
"std::move" and "std::forward" should not be confused
∰ 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
ਜ਼ਿ 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
n Bug
Destructors should be "noexcept"
🖟 Bug