



CloudFormation

Go =GO

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C++ static code analysis

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

• Security **⊗** Code (436) Quick 68 Fix ΑII 578 6 Vulnerability (13) **R** Bug (111) rules Hotspot

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

Generic exceptions should never Analyze your code be thrown cwe error-handling cppcoreguidelines Code Smell cert If you throw a general exception type, such as std::exception, std::logic_error or std::runtime_error, it forces consumers to catch all exceptions, including unknown exceptions they don't necessarily know how to handle. Instead, either throw a subtype that already exists (for example in <stdexcept>), or create your own type that derives from a standard one. **Noncompliant Code Example** throw std::logic_error("Unexpected null 'user_id' argument.") **Compliant Solution** throw std::invalid_argument("Unexpected null 'user_id' argume See • MITRE, CWE-397 - Declaration of Throws for Generic Exception • CERT, ERR07-J. - Do not throw RuntimeException, Exception, or Throwable • C++ Core Guidelines E.14 - Use purpose-designed user-defined types as exceptions (not built-in types) Available In: sonarlint ⊖ | sonarcloud ☆ | sonarqube

Search by name...

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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