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ABAP

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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

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

📆 Bug

📆 Bug

📆 Bug

📆 Bug

Standard outputs should not be Analyze your code used directly to log anything bad-practice cert owasp When logging a message there are several important requirements which must be · The user must be able to easily retrieve the logs • The format of all logged message must be uniform to allow the user to easily read the log • Logged data must actually be recorded · Sensitive data must only be logged securely If a program directly writes to the standard outputs, there is absolutely no way to comply with those requirements. That's why defining and using a dedicated logger is highly recommended. **Noncompliant Code Example** std::cout << "My Message";</pre> // Noncompliant std::cerr << "My Message";</pre> // Noncompliant printf("My Message"); // Noncompliant **Compliant Solution** Log().Get(logINFO) << "My Message";</pre> See • OWASP Top 10 2021 Category A9 - Security Logging and Monitoring Failures • OWASP Top 10 2017 Category A3 - Sensitive Data Exposure Available In: sonarlint 😁 | sonarcloud 🟡 | sonarqube | Developer Edition

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Privacy Policy

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