



CloudFormation

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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 6 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 # Bua "std::scoped_lock" should be created with constructor arguments # Bug Objects should not be sliced # Bug Immediately dangling references should not be created

Bug

Bug

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

"pthread_mutex_t" should be properly

Memory access should be explicitly bounded to prevent buffer Analyze your code overflows cwe symbolic-execution cert # Bug Blocker Array overruns and buffer overflows happen when memory access accidentally goes beyond the boundary of the allocated array or buffer. These overreaching accesses cause some of the most damaging, and hard to track defects. Noncompliant Code Example int array[10]; array[10] = 0; // Noncompliant: index should be between 0 & 9 char *buffer1 = (char *) malloc(100); char *buffer2 = (char *) malloc(50); memcpy(buffer2, buffer1, 100); // Noncompliant: buffer2 will Compliant Solution int array[10]; array[9] = 0; char *buffer1 = (char *) malloc(100); char *buffer2 = (char *) malloc(50); memcpy(buffer2, buffer1, 50); • MITRE, CWE-119 - Improper Restriction of Operations within the Bounds of a Memory Buffer • MITRE, CWE-131 - Incorrect Calculation of Buffer Size • MITRE, CWE-788 - Access of Memory Location After End of Buffer • CERT, ARR30-C. - Do not form or use out-of-bounds pointers or array subscripts • CERT, STR50-CPP. - Guarantee that storage for strings has sufficient space for character data and the null terminator Available In:

Search by name.

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initialized and destroyed

in Bug

"pthread_mutex_t" should not be consecutively locked or unlocked twice

in Bug

"std::move" and "std::forward" should not be confused

in Bug

A call to "wait()" on a "std::condition_variable" should have a