



ABAP

Apex

С

C++

CloudFormation

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C#

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Go

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Kubernetes

Objective C

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PL/SQL

Python

RPG

Ruby

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T-SQL

VB.NET

VB6

XML



C++ static code analysis

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

All 578 **6** Vulnerability 13 € rules

R Bug (111)

o Security Hotspot

⊗ Code (436)

Quick 68 Fix

Tags

Search by name...

"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

📆 Bug

Immediately dangling references should not be created

📆 Bug

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

📆 Bug

"pthread_mutex_t" should be properly initialized and destroyed

📆 Bug

"pthread_mutex_t" should not be consecutively locked or unlocked

```
"static" members should be
                                         Analyze your code
accessed statically
pitfall
While it is possible to access static members from a class instance, it's bad form,
and considered by most to be misleading because it implies to the readers of your
code that there's an instance of the member per class instance.
Noncompliant Code Example
 class MyClass {
 public :
   static void Mymethod() {
     // ...
   }
 };
 MyClass* pmyclass = new MyClass();
 pmyclass->Mymethod(); // Noncompliant
Compliant Solution
 class MyClass {
 public :
   static Mymethod() {
     // ...
 };
 Myclass::Mymethod();
 Available In:
```

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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