CxSuite®
SOURCE CODE ANALYSIS

Checkmarx Suite® is the most powerful Source Code Analysis (SCA) solution designed for identifying, tracking and fixing security flaws from the root: the source code.

CxSuite provides a high degree of flexibility and configurability by supporting a wide range of vulnerability categories, operating system (OS) platforms, programming languages and frameworks. By integrating into the Software Development Life Cycle (SDLC), Checkmarx’s automatic code review suite allows organizations to address the challenge of securing the code while cutting down on time and costs.

The widest range of vulnerability checks
- Virtually zero false-positive results
- Hundreds of out-of-the-box security queries
- Integration into the SDLC
- Graphical representation of discovered vulnerabilities
- Scan unbuilt code - without a compiler
The Virtual Compiler enables developers to test code anywhere, anytime, while avoiding problems of compiler and operating system compatibility. Developers can test uncompiled and unlinked code, their independent modules or any other application subsets in a true developer desktop deployment that reinforces good security awareness and practices as the code is written.

CHECKMARX PATENTED VIRTUAL COMPILER

THE NEXT GENERATION OF CODE AUDITING

Only with Checkmarx can auditors test code at the earliest stages of the SDLC. Further, auditors can easily conduct spot checks without worrying about duplicating development environments. This is especially important for complex legacy applications where auditors can quickly inspect code with no setup.

CxSuite IS DESIGNED FOR ACCURATE AND EFFECTIVE RESULTS:
- The widest range of vulnerability checks
- Virtually zero false-positive results
- Hundreds of out-of-the-box security queries
- Pinpoints business-logic flaws
- Integration into the SDLC
- Complete verification and tracking of each result
- Graphical representation of discovered vulnerabilities

IT’S ALL ABOUT ACCURACY

Visualization of vulnerabilities is the key to quick remediation of insecure code. The CxSuite presents all the path details that describe the vulnerability’s full anatomy. A sophisticated patented engine locates and graphically presents a full attack path in the code for quick review. This feature allows user-friendly, effortless identification of vulnerable lines of code for remediation.

Supported coding languages:

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Graph View
CxSuite Top Features

Managing thousands of results can be overwhelming but Graph View can help! All software security vulnerabilities are presented within CxSuite with their complete attack vector and composite vulnerability graphs enabling detection of the “best place to fix”.

GRAPH VIEW ENABLES YOU TO:

 ✓ Recognize the correlation between different findings of the same vulnerability type
 ✓ Understand the ripple effect of each specific flaw over the complete code and best place to fix
 ✓ Group select based on hierarchy
 ✓ Prioritize and effectively mitigate identified vulnerabilities
 ✓ "What If" remediation can be applied and analyzed dynamically
 ✓ Eliminating false positives in a single click
 ✓ Scalable for tens of thousands of results

SAVES TIME
SPEND LESS TIME FIXING AND MORE TIME DOING

Graph View allows you to easily fix your vulnerabilities in the best place. It can save hours with applications where dataflows are complex and there are thousands of possible references to the issue. The Graph View is even accessible from within the IDE.

BETTER EFFORT ESTIMATION
KNOW WHAT YOU ARE DEALING WITH

Graph View pinpoints the best places to fix the code. As a result developers can better estimate the time needed to fix the vulnerabilities to secure their application.

Best Place to Fix

Graph View pinpoints the best place in the application to fix the vulnerability.

Provides automatic recommendations of the best fix locations but also has a manual mode. A "What If" remediation can be applied and analyzed dynamically.

Resolve 20 issues in WebGoat by making a fix in just one place!
Graph View
CxSuite Top Features

ELIMINATE FALSE POSITIVES

SPEND LESS TIME LOOKING OVER NON-ISSUES

You can easily detect false positives by selecting a node and marking it as "non exploitable". Checkmarx remembers this in subsequent scans, resulting in ongoing improvement in scan accuracy.

HOW TO FIX

BEST FIX LOCATION

Fixing security vulnerabilities with Checkmarx is simple - our engine will automatically suggest the best locations to fix the vulnerabilities. Graph View allows you to view all of the flaws in your code within a few minutes. It identifies the critical junction points and optimizes remediation efforts.

SIMPLIFYING THE GRAPH

Graph View provides suggestions about how to fix and secure your code.

In this example by fixing only 3 errors in the code, we were able to resolve 14 vulnerabilities within the hierarchy.

1. Group together identical nodes
2. Simplify paths using homeographing

Best Place to Fix
Checkmarx is the leading provider for source code analysis. Founded in 2006, Checkmarx provides comprehensive solutions for automated security code review. Its technology is used by large corporations and small and medium-sized organizations across all industries. Checkmarx pioneered the concept of a query language-based solution for tracking technical and logical code vulnerabilities, and continues to bring new innovative solutions to market to fulfill its vision for a hacker free world.

Supported coding languages:

Supported Coding Languages:

JAVA, C#/.NET, PHP, C/C++, Python, Ruby, JavaScript, HTML, XML, SQL, PL/SQL, Objective-C, Android, C++

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