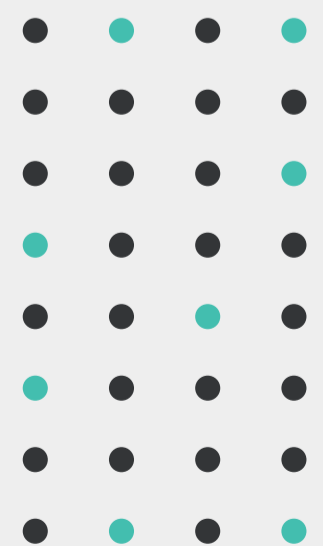


# CONTRAST DEVOPS-NATIVE APPSEC PLATFORM

## SOLUTION BRIEF



## EXECUTIVE OVERVIEW

Traditional application security (AppSec) solutions have increasingly limited effectiveness when it comes to reducing vulnerabilities in software development, keeping track of open-source software (OSS) components, and protecting applications in production. Contrast's DevOps-Native AppSec Platform uses instrumentation to analyze and protect software from within the application. This approach dramatically improves application security accuracy and efficiencies—from development into production.

### The Contrast Security Platform includes:

- **Contrast Assess** interactive application security testing (IAST)
- **Contrast OSS** automated open-source software security
- **Contrast Protect** runtime application self-protection (RASP)

To compete in today's marketplace, developers must meet increasingly aggressive delivery targets for new applications. Most organizations have integrated security with DevOps and Agile processes because traditional AppSec tools create bottlenecks—adding to project costs and delays. As a result, AppSec is often sacrificed in order to accelerate development cycles—which creates new security problems downstream.

Organizations also need greater accuracy from their AppSec solutions to eliminate the overwhelming noise created by false-positive alerts. Security teams currently spend 25% of their time chasing false positives.<sup>1</sup> Traditional security based on decades-old scanning models lack the capabilities to discern actual threats from a sea of probes that blindly search for any chance to exploit an application. Security must also be able to effortlessly scale with applications across all stages of the software development life cycle (SDLC)—without adding specialized security staff and requiring specialized security training.

## A UNIFIED FOUNDATION FOR MODERN APPLICATION SECURITY

The Contrast DevOps-Native AppSec Platform is designed to integrate with Agile and DevOps processes by operating within the application itself. Contrast leverages instrumentation to embed security within the application runtime that solves the challenges legacy

AppSec tools present in modern software environments. This inside-out approach to the AppSec model removes the guesswork of outside-in AppSec tools, delivering the accuracy, efficiency, and scalability modern software demands.

Contrast offers a platform-level approach that addresses the three main shortfalls of traditional application security solutions. Contrast accelerates DevOps by removing security bottlenecks from application development, reduces the noise of false positives, and scales security wherever an application exists across its lifespan without specialized security training and staff.

The Contrast DevOps-Native AppSec Platform is comprised of three core solutions:

- **Contrast Assess** offers IAST with elements from SAST and DAST to automatically identify software vulnerabilities in real time while developers write code. Contrast Assess agents monitor code and report from inside the application—enabling developers to find and fix vulnerabilities without involving security experts and without specialized security expertise. In addition to removing delays in development cycles, Contrast Assess also frees up security teams to focus on providing governance.
- **Contrast OSS** detects which open-source software components are called in the application runtime, if they are vulnerable, and whether they expose an organization to unnecessary security risks or legal problems due to licensing complications. Contrast OSS provides critical versioning and usage information and triggers alerts when risks and policy violations are detected. This eliminates the need for a separate assessment with different tools. There are no scans to manage and no extra steps for developers—just continuous insight.
- **Contrast Protect** uses real-time analysis of application runtime events to confirm exploitability before taking action to block an attack. This accuracy virtually eliminates the problems associated with false-positive alerts. In addition, Contrast Protect continuously detects and prevents both known and zero-day attacks by leveraging both multi-technique precision sensors and dynamic control over the runtime. It offers an instrumentation-based approach that simplifies security deployment and scalability.

## KEY CAPABILITIES

The Contrast Security platform continuously identifies application vulnerabilities in custom and open-source code—from left in development through release to production.

### OBSERVABILITY

Because the Contrast DevOps-Native AppSec Platform operates from inside the application itself, it can monitor all the parts of the application in runtime, including custom code, application programming interfaces (APIs), and open-source libraries. This occurs regardless of where the application is running—containers, microservices, and cloud. This deep visibility enables Contrast to focus on the vulnerabilities that actually matter, ignoring the vast sea of noise created by probes searching to exploit weaknesses that often do not exist.

### ASSESSMENT

Contrast uses instrumentation to automatically pinpoint and prioritize critical software vulnerabilities. This approach provides the highest accuracy, efficiency, and coverage possible. By embedding sensors inside applications, organizations can “shift left” and discover vulnerabilities earlier in the (SDLC). Here, developers gain efficiency and effectiveness by detecting and remediating problems with virtually no false positives.

## PROTECTION

In production, Contrast monitors runtime dataflows to detect the exact moment an attack reaches an application vulnerability. Then, before a breach can occur, it instantly blocks any exploitable runtime events without affecting the application. In addition to known vulnerabilities, these include unknown threats, variants, and zero-day attacks that often slip past perimeter defenses (e.g., web application firewalls) and directly expose internal application stacks to exploitation.

## SECURITY AT THE SPEED OF DEVOPS

The Contrast Security platform delivers accurate assessment testing, deep observability across the application stack, and powerful protection across the entire SDLC. It helps DevOps evolve into DevSecOps by removing security roadblocks, reducing alert noise caused by false positives, and scaling AppSec without additional staff or training.

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<sup>1</sup> "Ponemon Institute Reveals Security Teams Spend Approximately 25 Percent of Their Time Chasing False Positives," Exabeam, August 1, 2019.

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SECURITY

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Contrast Security is the world's leading provider of security technology that enables software applications to protect themselves against cyberattacks, heralding the new era of self-protecting software. Contrast's patented deep security instrumentation is the breakthrough technology that enables highly accurate assessment and always-on protection of an entire application portfolio, without disruptive scanning or expensive security experts. Only Contrast has sensors that work actively inside applications to uncover vulnerabilities, prevent data breaches, and secure the entire enterprise from development, to operations, to production.

