Contrast Protect
Runtime Application Self Protection (RASP) Solution

**CHALLENGES**

- **Critical applications with limited or no developer time to fix vulnerabilities are left exposed:** Per Dark Reading, the average time to fix a vulnerability is 38 days*.

- **No viable WAF options for CI/CD and for elastic cloud workloads:** Every code change requires constant rule tuning and additional nodes to be deployed.

- **Missed attacks:** Current solutions miss code level, API and “hard to signature” attacks.

- **Alert fatigue:** Teams may turn off blocking mode on WAFs due to alert fatigue caused by inability to differentiate a real attack (exploit) from an attempted attack (probe).

- **Lack of app-centric context:** No idea which app, library and function is under attack.

**SOLUTION**

Contrast Protect enables applications to become self-protecting, operating deep within the application itself, using instrumentation to gain insight into how attacks behave. With better visibility and insight comes better protection.

Software instrumentation introduces monitoring and control elements into applications. For example with Java applications, Contrast leverages the standard java.lang.instrumentation API to operate without any changes to source code or Java Virtual Machine (JVM).

Contrast Security's unique patented instrumentation enables our agent to perform attack detection & response with more insight, at a deeper level than other solutions. We take a seven-step approach that is more robust and comprehensive to improve the likelihood of blocking zero-day attacks and detecting probe attempts.

**DIFFERENTIATORS**

- Application visibility and context help differentiate attacks that would have worked from false positives that "look bad."

- Software Composition Analysis that tracks libraries and how they are used.

- Enhance SIEM detection and activity monitoring through an application's knowledge of users or changing logs without code changes.

- Scale security while maintaining performance.

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"As we host new applications on public cloud (e.g. AWS, Azure, GCP), we can launch these applications using automated pipeline strengthened by Contrast Security controls with out-of-box attack protection in a cost-effective way and with almost no tuning and minimal management."

— Senior Manager, Global Application Security at a Global Fortune 100 Insurance Firm
KEY PROTECTION CAPABILITIES

**Attack Prevention:** Defend against attacks by blocking them at the API level if they pose a threat. Eliminate noise and human investigation.

**Easy 10-Minute Install:** Get Contrast up and running in your application without complex setup and tuning.

**No Code Changes:** Contrast’s binary instrumentation protects new code as well as legacy code with no ongoing deployment cycle.

**Splunk Integration:** Enhance the data that Splunk receives, including more relevant information. A new Contrast event type improves searching and correlation.

**Route Coverage:** Map externally-available APIs to enumerate the attack surface. Track usage against this map to understand how an application is used. During security tests, identify duplicate testing and focus on all comprehensive routes.

**Software Composition Analysis:** Track which third party libraries are in use to know the impact of their vulnerabilities. Unlike basic tracking, Contrast understands how much of the library is actually in use.

**Log Enhancer:** Application level logging and monitoring without code change.

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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.

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*Dark Reading, 2018*