

Three steps to detecting and blocking AI-generated attacks

A runtime-first defense against AI-accelerated exploitation

The three steps

STEP 1

Instrument running apps for inside-out visibility

Pre-production scanning stops at the deploy gate. Real exploit attempts happen after it. Attach a runtime agent to production, QA and CI/CD to see what actually executes.

DO THIS: Deploy to your top five revenue-critical or auth-handling applications first.

STEP 2

Detect real exploit attempts as they execute

Signature-matching misses novel AI-generated payload variants. Runtime taint tracing follows untrusted input through the execution path and fires only when a vulnerable sink is actually reached.

DO THIS: Route Contrast alerts to SIEM with application-layer context (line of code, stack, request).

STEP 3

Block attack classes structurally, not by signature

Because protection is applied at the sink, the block is structural. Novel SQLi variants, command injection, deserialization and path traversal are stopped without a CVE, patch or rule update.

DO THIS: Switch production to block mode for confirmed exploitable classes. Leave pre-prod in monitor.

THE NUMBERS THAT MATTER

32%

Surge in CVE submissions

30+

Average serious vulns per application

47K

Attacks blocked by Contrast

Questions to ask before you buy or renew

- Does your protection work without a CVE, patch or rule update (structural block), or does it require a signature?
- Can you tell me the exact line of code, stack trace and request for every alert, or only that a pattern matched?
- What is your false-positive rate in production and how is it measured?

[Download the full guide](#)

Contrast Security is the world's leader in Runtime Application Security, embedding code analysis and attack prevention directly into software. Contrast's patented security instrumentation enables powerful Application Security Testing and Application Detection and Response, allowing developers, AppSec teams and SecOps teams to better protect and defend their applications against the ever-evolving threat landscape.

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