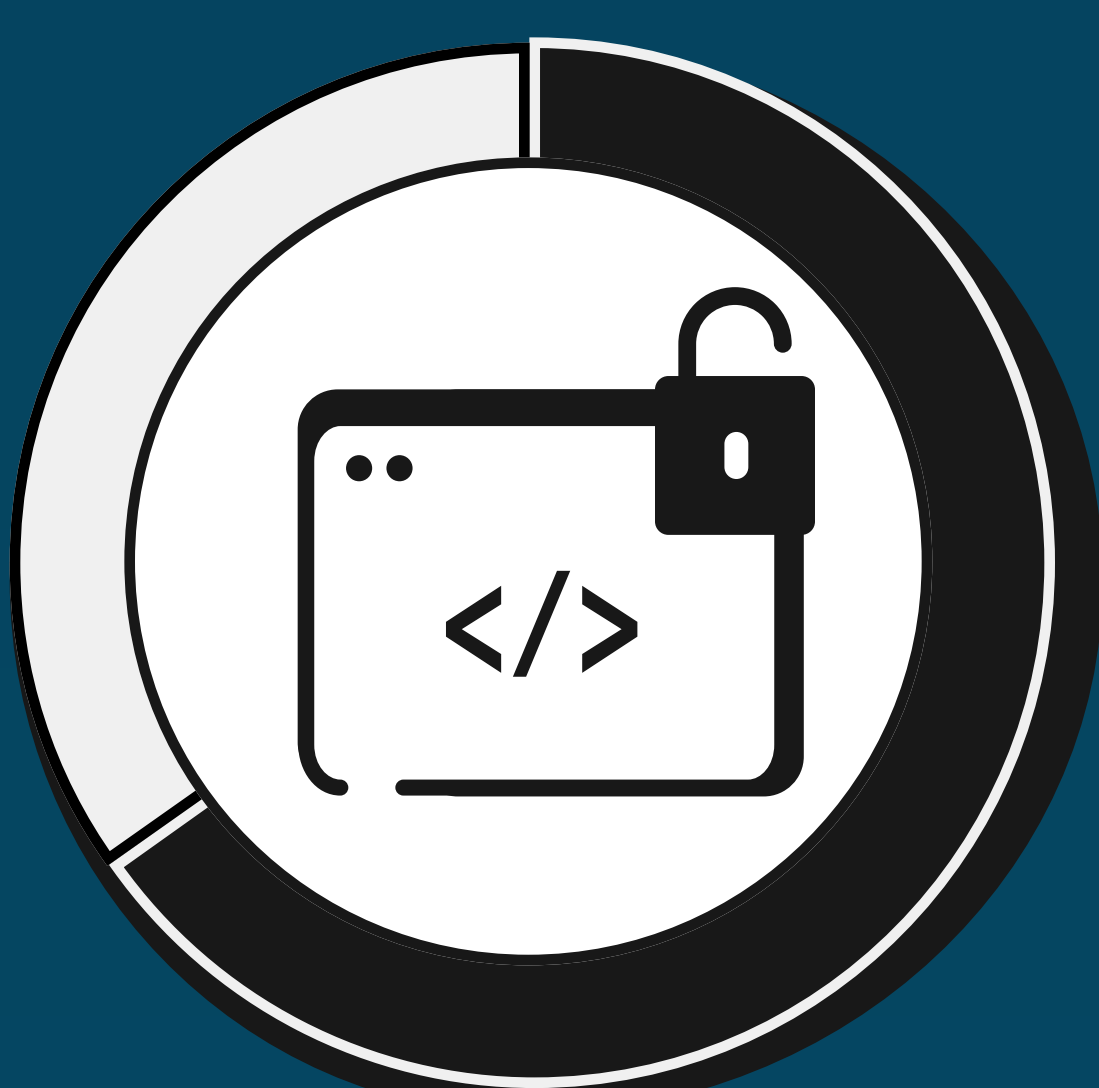


Integrating Application Security into Detection and Response

Applications increasingly targeted by attackers

Web application and API breaches are among the top three attack vectors.¹



68% of incidents are caused by known software vulnerabilities or internal applications.²

78% of cybersecurity professionals reported experiencing an API security incident in the past 12 months.³



According to Crowdstrike, **57%** of survey respondents ranked "Getting full visibility into applications and APIs" as a top application security challenge.⁴

Cyber defenders need to react to application attacks more quickly



The **average breakout time**, the average time it takes an adversary to move laterally within a victim network after gaining access, was **62 minutes in 2023**.⁵



The **average cost of a breach** cost **\$4.88 million in 2024**. On average, the cost of a breach is \$1.38 million lower when a breach is detected early.⁶

Why can't existing application security tools keep up?

Downsides of WAFs

- Relies on static signatures or known patterns to identify threats: two methods that sophisticated attackers can evade.
- High number of false positives or alerts that aren't clearly actionable.

Downsides of EDR for protecting applications

- No way to know if code inside the application is manipulated.
- Can miss attacks that occur entirely within the application layer.
- SOC may have to wait until an application is compromised before EDR detects the threat.

Why SOC teams can't effectively protect applications today⁷

- Can't see behavior of the running app in production.
- Lack true contextual awareness of the application (i.e., application criticality, known vulnerabilities correlated with suspicious behavior).
- May not have the proper tooling to remediate.
- Unable to address specific non-kernel threats such as SQL injection, Server-Side Forgery (SSRF) and Java Naming and Directory Interface (JNDI) on their own.

Key benefits of ADR

- Visibility gap closure:** ADR provides deep insight into the runtime behavior of applications and APIs illuminating vulnerabilities and attacks.
- Proactive threat mitigation:** It detects and responds to attacks at their inception, preventing escalation.
- Context-rich alerts:** These help security teams quickly identify and remediate threats with actionable intelligence.
- Less noise and improved prioritization:** ADR distinguishes critical threats from false positives, which reduces the security backlog and streamlines remediation efforts for developers.
- Smaller blast radius:** Containment and mitigation capabilities limit the impact of incidents.

¹ 2024 Verizon DBIR
² 2024 Verizon DBIR
³ Akamai Securing Apps Report 2024
⁴ 2024 State of Application Security Report from Crowdstrike
⁵ Crowdstrike Threat Hunting Report 2024
⁶ IBM cost of a breach 2024
⁷ Source: IDC InfoBrief, sponsored by Contrast Security, Market Insights: Application Detection and Response, doc #US53172525, February 2025

For more information and insights from IDC analysts on the benefits of ADR, download your complimentary copy of the IDC InfoBrief, sponsored by Contrast Security:
Market Insights: Application Detection and Response