

Datadog: Scaling Security Where Performance is Critical with Signal Sciences



CHALLENGE

Datadog is a monitoring and security platform service for cloud applications. Thousands of customers rely on Datadog to see metrics and events from software across their DevOps stack, such as cloud and security monitoring, alerts, logs, and more. Founded in 2010, the company rapidly scaled to serve its global customers by embracing the value of modern engineering and architecture practices.

As the organization continued to grow, Datadog's security team knew that their homegrown application security tools would not scale at the rate required to support a rapidly growing customer base. Adopting a WAF was the next move, but Datadog required one that provided flexibility in modern cloud architectures, supported a rapid CI/CD pipeline's code changes and deployments without extensive tuning, and didn't unnecessarily consume resources across security, SRE, and development teams.

“ With zero performance impact on our customers and engineering teams, Signal Sciences allows us to operate a modern application without worrying about downtime or broken sites. ”

Douglas DePerry, Director of Defense



SOLUTION

The Only Next-Gen WAF for Modern Applications

As a leader in the DevOps space, Datadog has championed cloud-native applications built with the latest tools and best practices. Their organization needed a security solution that can easily adapt to their bespoke architectures: Signal Sciences was the only vendor that could keep up with their pace while filling their gaps. Signal Sciences flexible deployment options allowed Datadog to quickly and easily install our patented technology exactly where they needed it.

Low TCO with No Tuning or Maintenance

Datadog delivers on their value proposition—a single pane of glass for all your app monitoring needs—by pushing code dozens of times per day to meet customer needs. The security team knew it would be too difficult for a legacy WAF to understand and tune to the constant changes on their application. Signal Sciences protects Datadog by immediately filtering and blocking attacks without extensive or ongoing rules tuning, giving their security team breathing room to focus on high-priority tasks and projects.

No Performance Impact on Application or Organization

One of the main complaints about legacy WAF is the negative impact across the organization. Whether it's blocking legitimate users from accessing a site, slowing applications, or using up DevOps resources to triage emergencies, performance issues are a top priority for teams evaluating WAFs. After deploying Signal Sciences, Datadog has reported zero performance issues across the board. Stakeholders from Security, DevOps, and Site Reliability Engineer (SRE) teams reported no false positive issues, resulting in zero negative impact on legitimate traffic.

“ Legacy WAFs could never keep up with our product release cycles. Signal Sciences was the only solution we trusted to deploy without slowing us down. ”

Douglas DePerry, Director of Defense



DATADOG

Signal Sciences Platform Capabilities

Next-Gen WAF | RASP | Rate Limiting | DDoS

Attack Types Blocked

XSS | CSRF | Scripting | Account Takeover