



Imperva API Security

SOLUTION BRIEF



Imperva API Security solution deliver rapid, comprehensive protection for your API landscape. Secure externally facing APIs and integrate internal APIs into one unified interface—all deployed within minutes and with minimal dependencies. Our solution delivers out-of-the-box exposure analysis, bot detection, rate limiting, and blocking capabilities that provide full visibility into API activity and risks, so your team can act fast.

Our three-step approach—rapid discovery, continuous risk assessment, and proactive threat mitigation—lets you pinpoint vulnerabilities and tailor protection where it matters most. This targeted strategy minimizes false positives, maximizes your return on security investment, and reduces costs while boosting operational efficiency.

Imperva empowers you to secure digital assets, protect sensitive data, and maintain a competitive edge in today's complex threat landscape.

Imperva's Approach to API Security

Imperva's approach ensures comprehensive protection through three systematic steps – Discover, Assess, and Mitigate.

Step 1: Discover – Full API Visibility

- Automated API Discovery:** Discover the API landscape, identifying critical endpoints with potential exposures, wherever they are, ensuring an always up-to-date inventory.
- Data Classification:** Automatically classify sensitive APIs handling PII, financial data, and other critical information.

Step 2: Risk Assessment – Risk & Security Posture Analysis

- Automated Risk Assessments:** Identify APIs vulnerable to OWASP API Security Top 10 threats.
- Security Posture Insights:** Evaluate API schema security design issues, detect authentication gaps, misconfigurations, and provide insights that help prioritize mitigation efforts.

KEY BENEFITS:

Unified Security

End-to-end protection is provided through integrated DDoS mitigation, Bot Protection, and WAF, ensuring comprehensive security across the entire API ecosystem.

Fast Flexible Deployment

Designed for public, private, and hybrid environments, offering seamless integration and adaptability to meet your unique infrastructure needs.

High Granularity & Accuracy

Detailed insights with low false positives deliver a strong return on security investment (ROSI) and precise security controls.

Multi-Protocol Support

Support for SOAP, gRPC, REST, and GraphQL ensures robust protection across all API architectures.

Robust Penetration Testing

Regular pen testing is conducted to identify vulnerabilities early, strengthening overall API security.

Comprehensive API Verification

Verification of Swagger files is integrated, ensuring API specifications are accurate and secure from the start.

Step 3: Mitigate – Proactive Threat Prevention

- **Static Mitigations:** Enforce API schema security, monitor access control posture, and ensure compliance with security best practices.
- **Runtime Mitigations:** Prevent reconnaissance scans by malicious bots and enable policy-based runtime detection & response (DR) to block business logic abuse e.g.;(BOLA).

The Distinct Advantage in API Security

Imperva API Security is engineered to deliver a unified, robust solution that integrates detection, response, and flexible deployment to meet diverse customer needs:

Rapid Inline API Security	Flexible Deployment
Single Detection/Response Engine: Inline WAFs trigger direct response actions without relying on third-party integrations.	Cloud-Native Deployment (SaaS): Easy-to-deploy cloud-native solution that secures cloud-hosted, external-facing apps.
Effortless Enablement: Seamlessly implement API Security for any (public) web application.	Single, unified API security dashboard: Manage your API security from one unified dashboard that offers complete visibility into both your internal and external API ecosystems.
Proven, Industry-Recognized Protection: API Security recognized by top industry analysts and trusted by customers worldwide.	Local Data Processing & Privacy: Extensive local data processing ensures robust privacy, with self-managed deployments keeping all data under customer control.

Deployment & Integration

- **Deploy Anywhere:**
SaaS, hybrid, or on-prem – full control for regulated industries.
- **Agentless & Agent-Based:**
Supports top API gateways (Kong, Apigee, Azure, AWS, APIM, F5) and microservices without complex deployments.

- **Kubernetes-Native Security:**

A lightweight sidecar sensor provides deep API visibility without performance impact.

- **Effortless Integration:**

Connects with SIEMs (Splunk, Elastic) and API management platforms for automated monitoring and faster threat response.

Why Customers Choose Imperva

“With enhanced API security, our customers feel more confident about using hibank’s digital services. We’ve reduced the likelihood of downtime due to security breaches, which has led to increased customer satisfaction and trust in our digital banking platform.”

Lim Siaw Liang,
CISO, hibank

“The implementation of Imperva API Security was smooth, with their team providing extensive support throughout the process. The easiest part was integrating it into our existing security ecosystem.” With its low operational overhead and scalability, Imperva provides a practical and cost-effective security solution as we grow and evolve our business.”

Mark Overton,
CISO, Softcat

“One of the good things about Imperva is that if an API was unauthenticated, it told you what it was missing and how you could fix it. We got the POC running, it came in, it returned a list of a few endpoints that were unauthenticated, and then that allowed us to take it back to the relevant teams, application teams, support teams, and get that sorted. Also, moving forward, we have a baseline in place to prevent these kinds of things from happening down the line.”

Nikil Kathiravan,
Cybersecurity Specialist at SA Power Networks

About Thales

Thales is a global leader in cybersecurity, helping the most trusted companies and organizations around the world protect critical applications, sensitive data, and identities anywhere at scale. Through our innovative services and integrated platforms, Thales helps customers achieve better visibility of risks, defend against cyber threats, close compliance gaps, and deliver trusted digital experiences for billions of consumers every day.