

API Security

Protect Your APIs from Cyberattacks

APIs are the cornerstone of digital transformations for any organization. They empower businesses to develop applications in new microservice architectures, automate business-to-business processes and provide a back-end for mobile applications. Unfortunately, cybercriminals have taken notice of the shift towards an API economy and are discovering new attack vectors which target APIs. This creates the critical need for organizations to adopt new security measures that can better protect their APIs.

Imperva API Security

Building on the current strengths of the Imperva Application Security suite, Imperva API Security leverages its strength in DDoS protection as well as other security capabilities in order to protect an organization's APIs. In addition, a new positive security model is added as a second layer of defense for API traffic, blocking any misuse of APIs by malicious users. The positive security model is built automatically using an organization's OpenAPI specifications, allowing development organizations to integrate API security into their (CI/CD) processes. Every time an API is updated, it's secured automatically, leading to faster software release cycles.

KEY CAPABILITIES

- Block critical API-related security attacks
- Positive security model built from OpenAPI specifications
- Integrates security into API lifecycle management
- Unified solution for website and API security

Name	Description	Action	Last Modified	Status	More
http://api.example.com (10)	Imperva API Security example	Block Request	18 Mar 2019	Enabled	
Endpoint		Action	Threats		
POST /v1/conf/datasets/createDataset (167)		Block Request (Default)	534		
GET /v1/conf/agents/{agentName}/data/interfaces (168)		Alert Only	246		
POST /v1/conf/tags/{tagName}/taggedObjects (169)		Block Request (Default)	742		
DELETE /v1/conf/tags/{tagName}/taggedObjects (170)		Block Request (Default)	157		
GET /v1/conf/policies/security/webApplicationCustomPolicies (171)		Block Request (Default)	966		
GET /v1/conf/objSecurityPolicies (174)		Block Request (Default)	395		
PUT /v1/conf/datasets/{dataSetName}/data (175)		Block Request (Default)	678		

Caption: Protected API endpoints in Imperva API Security

A Unified Security Approach for APIs

Imperva API Security is a part of the Imperva Application Security suite, simplifying security management with an integrated CDN, Load Balancer, and DDoS Protection for both website and API traffic. Security policies span both websites and APIs, with a single analytics layer for unified visibility and contextual insights.

Immediate Protection

Protect your APIs against critical security attacks with out of the box security policies. Imperva API Security also provides advanced capabilities, giving you the ability to build customized policies in order to meet your specific requirements.

Positive Security Model

Automatic creation and enforcement of a positive security model, built from your own OpenAPI specifications, removes the burden of specification validation on developers and the load on your application in runtime.

Integrate Security into API Lifecycle Management

Enable security to be seamlessly integrated into the API lifecycle management process via CI\CD tools or leading API management vendors. Integration allows every addition or change of an API by development to be automatically updated within Imperva API Security, preventing the usual security bottleneck in API deployment.

IMPERVA APPLICATION SECURITY

API Security is a key component of Imperva Application Security, which reduces risk while providing an optimal user experience. The solution safeguards applications on-premises and in the cloud by:

- Blocking critical API security attacks
- Providing a positive security model built from OpenAPI specifications
- Integrating security into API lifecycle management
- Delivering a unified solution for website and API security

Learn more about Imperva Application Security at www.imperva.com.

Imperva is an analyst-recognized, cybersecurity leader championing the fight to secure data and applications wherever they reside.

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