

# Akto - Proactive API Security Platform

We are OpenSource!

## The API Security Challenge

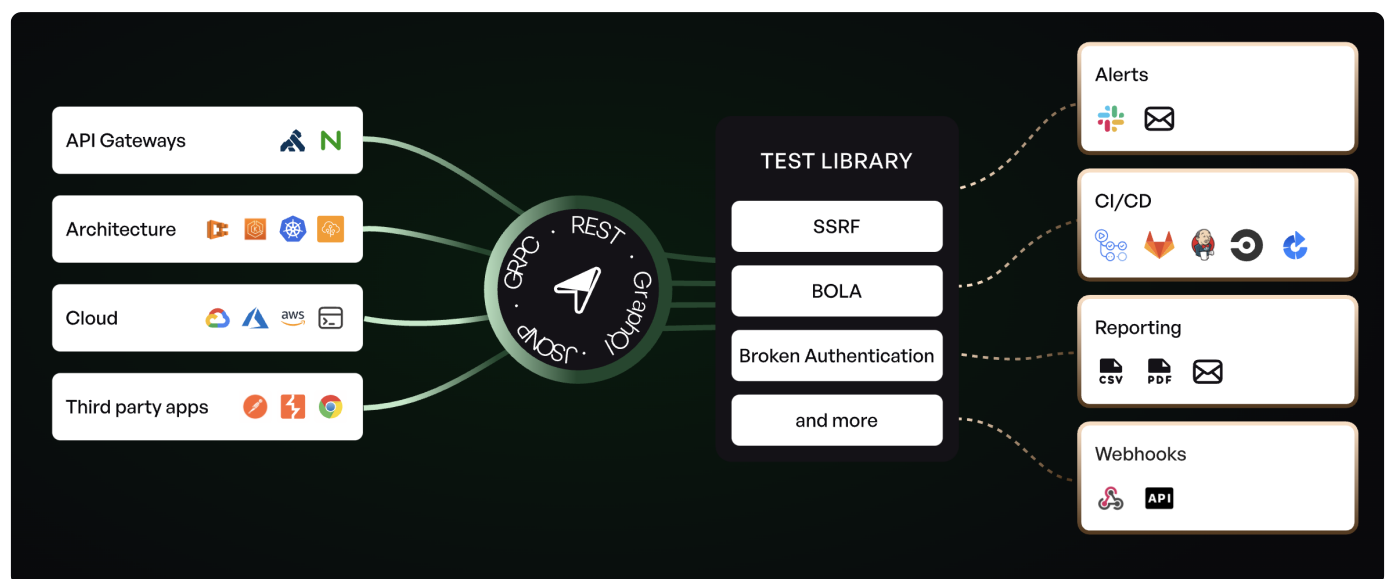
"APIs are deployed to production with security issues. Securing APIs before deployment remains the hardest challenge" - Head of Product Security, Global Bank.

1. **57%** of organizations have experienced multiple API Security incidents and 35% have experienced at least one API Security incident over the past 12 months.
2. **30%** of organizations reported broken authentication, authorization and access control issues as the top API risks.
3. Lack of API visibility is the top concern reported by **90%** of the organizations.
4. US companies have lost about **12 to 23 billion** USD from API data breaches last year.

## Akto - Proactive API Security Platform

Akto is the only industry-leading proactive API security platform, renowned for its precision, depth, and automation. Our platform seamlessly adapts to any hosting configuration, supports a wide range of cloud services, and is compatible with diverse API architectures.

## Akto Platform Architecture



# Akto Use Cases

## 1. API Discovery

Akto automatically discovers and monitors APIs in real-time across various formats, including REST, GraphQL, gRPC, and JSONP. Our system eliminates the need to manually update swagger file. Instead, Akto creates an upto date swagger file and proactively alerts you about new or changed APIs, enabling efficient management of your API security risks. Akto discovers **both external and internal APIs**.

Akto detects all API misconfigurations and categorizes APIs according to their risk scores.

API inventory					
30 days	Total APIs 1333 ↓21	Critical 1333 ↓21	Tested 80%		
All	Groups	Hostname	Custom	+	
<input type="checkbox"/>	Group		Total endpoints	Risk score	Test coverage
<input type="checkbox"/>	REST Endpoints		50	4.9	0%
<input type="checkbox"/>	Js files		100	4.8	0%
<input type="checkbox"/>	png files		400	4.7	18%
<input type="checkbox"/>	PII Only		30	4.5	29%
<input type="checkbox"/>	Newly Discovered		493	4.5	32%
<input type="checkbox"/>	High Risk		22	4.5	38%
<input type="checkbox"/>	Auth detected		33	4.3	38%

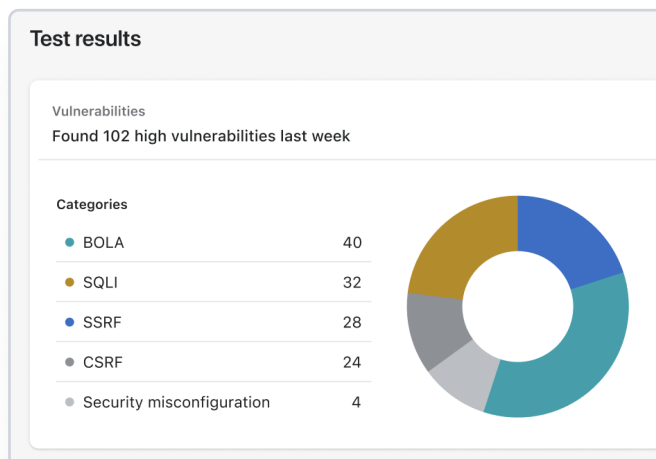
## 2. Sensitive Data Exposure

Akto's platform can identify sensitive parameters through API request and response. Our comprehensive database encompasses over 100 types of sensitive data, such as email addresses, phone numbers, Social Security numbers, and credit card information. This feature allows organizations to maintain the highest standard of data security and compliance within your digital ecosystem.

## 3. API Security Testing

Akto stands at the forefront of API Security testing with its unparalleled and innovative approach. Our platform uniquely combines an extensive array of comprehensive test cases with the flexibility for

Akto covers all aspects of the latest OWASP Top 10 and HackerOne Top 10 ensuring complete coverage. We are particularly distinguished for our advanced test suites focusing on **broken authentication and authorization**. Akto maps each vulnerability discovered with associated CWE and related CVEs to give context of the finding to the developers.







## 4. Write Custom Tests

We acknowledge that false positives are a significant challenge for an organization. Akto addresses this issue by offering unparalleled test customization capabilities. Users have the flexibility to modify existing test templates or introduce their own, aligning the security checks with their specific API structures. This significantly reduces the rate of false positives, setting Akto apart in the industry.

- Scan completed on all Public APIs**  
2570 scans run
- 7 Broken Authentication issues**  
Needs immediate attention
- Sensitive data detected**  
Credit Card in Response
- Scheduled for Next Friday**  
Total time estimated - 133 seconds

## Features at a glance

Teams can opt for a self-hosted deployment, ensuring all data remains within their VPC for enhanced security and control. Alternatively, Akto's SaaS model provides convenience by processing data on Akto's servers. Designed for shift-left API scanning, Akto integrates seamlessly into development workflows, providing detailed scan results at the Pull Request level. This empowers teams with actionable insights, thereby streamlining the developer's role in maintaining robust API security.

		
Scan in CI/CD	OWASP Top 10 Coverage	REST, graphql, grpc
		
Both Self Hosted and SaaS	Reporting and Alerts	Find issues when PR is created

## Superpower - The Largest API Security Test Library

1. Akto's dedicated security team is committed to ensuring the highest standards of API security. Our team regularly updates our extensive Test Library ensuring the most current and comprehensive coverage.
2. Our platform boasts a robust collection of over 200 templates, meticulously crafted to address the OWASP Top 10 for APIs and beyond.
3. Akto also provides the flexibility to select from these pre-existing templates or to create custom templates tailored to specific organizational needs

Broken object level authorization 5	Rate Limiting 5	Broken authentication 10
Server Side Request Forgery 12	Cross Site Scripting (XSS) 4	SQL Injection 50
Broken Authorization 7	Mass Assignment 4	Cross Origin Resource Sharing 5
Security Misconfiguration 70	Broken Object Property Level Auth 10	CRLF Injection 16
Sensitive Data Exposure 10	Unrestricted Access to Sensitive Business workflows 7	
LLM Security 50	Unrestricted resource consumption 24	Verbose Error Messages 12
CRLF Injection 16	Broken Object Property Level Auth 10	Server version Disclosure 32

## 20+ Traffic Connectors

Akto needs traffic to establish continuous API inventory. Our platform is designed with a focus on non-intrusive, out-of-band connectors, ensuring minimal impact on production environments. These connectors are meticulously engineered to handle high-scale production traffic, providing organizations with a seamless and efficient means to secure their API landscape without compromising on performance.

<b>Kubernetes Helm Charts</b>	NGNIX	GCP Packet Mirroring
EKS	Kong	Akto TCP Agent
AWS Fargate	<b>AWS Traffic Mirroring</b>	ePBF
AWS Beanstalk	Envoy	<b>Docker</b>
Burp Suite	Postman	API Gateway

## Integrations

The screenshot shows the Akto integrations page with the following details:

- Navigation tabs: All (7), Traffic Source (1), Api Management (1), AI (1), Alerts (2), Automation (2)
- Text: Showing all Integrations
- Sort: Newest update (dropdown)
- Integrations list:
  - Burp Suite (Configure)
  - Postman (Configure)
  - Akto API (Configure)
  - CI/CD (Configure)
  - Akto GPT (Configure)
  - Slack (Configure)

Protect your APIs today from attacks with Akto's proactive answer to API Security. See for yourself with a free trial. Select from the options below.

[Start with Cloud version](#) | [Deploy self-hosted](#) | [Try Open Source](#) | [Schedule a demo](#)

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