

# How can API Security strengthen your posture

APIs are the building blocks of modern apps and ecosystems, but as they grow in number and complexity, so do the threats.

## The API Explosion: Rapid Growth and Rising Threats

APIs are growing rapidly, but so are their attack surfaces. Security must evolve in tandem with adoption to stay ahead of potential threats.

By 2026, **30%+** of new API demand will come from AI and LLM tools  
(Source: Gartner, 2023)

CAGR for APIs is projected at **17% to 28%** annually  
(Source: Grand View Research, 2023)

API management market to reach **\$16.9B** by 2029, and up to **\$49.95B** by 2032  
(Source: Fortune Business Insights, 2024)

## The Hidden Risks of APIs

High-profile incidents expose sensitive data, damage reputations, and trigger regulatory action. Here are a few actual instances where weak API architecture made headlines.

### API Breaches



Alissa Knight, a well-known API security researcher, **exploited insecure APIs to access accounts across 55 banks** and transfer money without authorization during a simulated attack.<sup>1</sup>



A large-scale misconfiguration in **Google Firebase APIs exposed sensitive data**—including emails, passwords, and chat messages—in more than 24,000 Android apps.<sup>2</sup>



A researcher **gained backend access to over 100 Tesla vehicles** worldwide by exploiting unprotected APIs, enabling remote control features through a VPN.<sup>3</sup>



An API logic flaw in Coinbase's retail trading platform **allowed users to sell cryptocurrency they did not actually own**, prompting a \$250,000 bug bounty reward for the discovery.<sup>4</sup>

## How Can API Security Help strengthen your systems?

We go beyond basic API protection. Our lifecycle approach ensures security is built-in, from design to deployment.



API Security Domain

#### API Discovery & Inventory

How Aujas Protects

Identify shadow APIs, catalog endpoints, map data flows, and user roles



API Security Domain

#### Secure API Design & Development

How Aujas Protects

Threat modelling (STRIDE/DREAD), OWASP Top 10 protections, RBAC, OAuth/OIDC



API Security Domain

#### Testing & Threat Simulation

How Aujas Protects

Automated & manual pen testing, business logic misuse cases, continuous vulnerability scans



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#### Access Control & Protection

How Aujas Protects

Gateway policy enforcement, session control, rate limiting, DDoS & bot mitigation



API Security Domain

#### Compliance & Governance

How Aujas Protects

Align with GDPR, HIPAA, PSD2, ISO 27001; ensure audit readiness and regulatory reporting



API Security Domain

#### DevSecOps & Monitoring

How Aujas Protects

CI/CD integration, continuous discovery, real-time monitoring, adaptive threat detection

## API Security: A Strategic Approach To Compliance Readiness

Compliance frameworks enforce controls that help prevent API security incidents. The table below maps these to global regulations, showing how compliance strengthens API security.



Security Control	Regulatory Frameworks	Regions	Why It Matters
OAuth 2.0/OpenID Connect	GDPR, PIPL, PDPA, SOC 2	EU, China, SE Asia, Global	Secure authentication and delegated access
TLS Encryption	HIPAA, PCI-DSS, LGPD, PIPEDA, DPDPA, NYDFS	USA, Global, Brazil, Canada, India	Protect data in transit (HTTPS)
RBAC (Role-Based Access)	GLBA, DPDPA, NERC CIP, SAMA Framework, DIFC DPL	USA, India, Saudi Arabia, UAE	Restrict sensitive API access
Rate Limiting/API Gateway	NIST CSF, PSD2, MAS TRM, APRA CPS 234	USA, EU, Singapore, Australia	Prevent DDoS and brute-force API attacks
Security Logging/Monitoring	ISO 27001, SOC 2, NYDFS, APRA CPS 234	Global, USA, Australia	Enable auditability, detect and respond to threats
Strong Authentication (MFA, SCA)	PSD2, NYDFS, HIPAA, HITECH, GLBA	EU, USA	Prevent unauthorized access and data theft
Breach Notification	GDPR, HIPAA, DPDPA, HITECH	EU, USA, India	Meet legal obligations for data breach disclosure
Data Localization and Cross-Border Control	CLOUD Act, PIPL, GDPR, Qatar DPL	USA, China, EU, Qatar	Regulate where data can be accessed and stored
Consent and Data Minimization	GDPR, LGPD, PDPA, PIPL	EU, Brazil, SE Asia, China	Protect user privacy at the API level

### Powering compliance and trust through API security

API security is a strategic layer of defense. Aujas Cybersecurity helps you secure APIs end-to-end, ensure compliance, and safeguard sensitive data.

Let Aujas Cybersecurity guide your journey

<sup>1</sup> <https://www.akamai.com/products/api-security>

<sup>2</sup> <https://www.comparitech.com/blog/information-security/firebase-data-leak/>

<sup>3</sup> [https://techcrunch.com/2022/01/24/teslamate-bug-teslas-exposed-remote/?utm\\_source=chatgpt.com](https://techcrunch.com/2022/01/24/teslamate-bug-teslas-exposed-remote/?utm_source=chatgpt.com)

<sup>4</sup> [https://www.coinbase.com/blog/retrospective-recent-coinbase-bug-bounty-award?utm\\_source=chatgpt.com](https://www.coinbase.com/blog/retrospective-recent-coinbase-bug-bounty-award?utm_source=chatgpt.com)