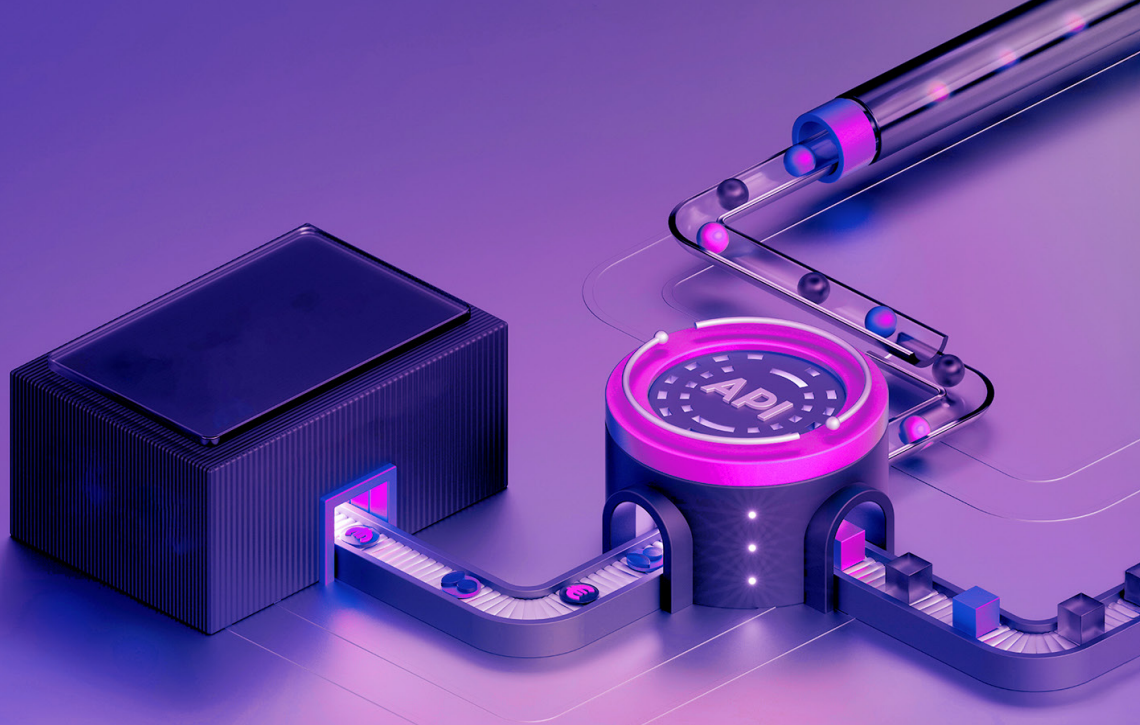


How Can API Security Strengthen Your Posture

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.¹



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



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



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.⁴

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 and Inventory

How We Protect

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



API Security Domain
Secure API Design and Development

How We Protect

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



API Security Domain
Testing and Threat Simulation

How We Protect

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



API Security Domain
Access Control and Protection

How We Protect

Gateway policy enforcement, session control, rate limiting, DDoS and bot mitigation.



API Security Domain
Compliance and Governance

How We Protect

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



API Security Domain
DevSecOps and Monitoring

How We Protect

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. NuSummit Cybersecurity helps you secure APIs end-to-end, ensure compliance, and safeguard sensitive data.

Let NuSummit Cybersecurity guide your journey

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

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

³ <https://techcrunch.com/2022/01/24/teslamate-bug-teslas-exposed-remote/>

⁴ <https://www.coinbase.com/blog/retrospective-recent-coinbase-bug-bounty-award>