wallarm

Rappi

CASE STUDY

Rappi's API Security Revolution with Wallarm

![wallarm](wallarm logo)

About Rappi

Founded in 2015 by three Colombian entrepreneurs, Rappi revolutionized convenience with its innovative "super app" concept, allowing customers to order virtually anything and have it delivered within 30 minutes. The company generates revenue by taking a percentage of each retail transaction facilitated through its platform.

Today, Rappi continues to lead as a pioneer in on-demand services across Latin America.

10 Countries of operation across **LATAM**

220M USD estimated revenue

1500 + Employees

2016 YCombinator alumni

250k businesses represented

Overview

Faced with growing API security challenges, including vulnerabilities and evolving threats, Rappi turned to Wallarm to bolster its defenses. Rappi chose Wallarm for its seamless integration, low false-positive rates, and advanced API protection capabilities.

Since implementing Wallarm, Rappi has strengthened its API security posture by reducing malicious traffic, enhancing threat detection, and ensuring smoother deployments. Features like real-time threat mitigation have proven invaluable, while Wallarm's exceptional customer support has made it a trusted partner in Rappi's security strategy.

With Wallarm, Rappi continues to safeguard its APIs, ensuring a secure and reliable platform for its users.

> I recommend Wallarm. It's not only the product but the people and teams behind it.

Sebastian Darricades, Sr Blueteam Engineer

Challenges

Rappi faced a few challenges that needed to be addressed

Thousands of APIs

The foundation of Rappi's platform relies on thousands of APIs powered by AWS across multiple regions, which are critical for enabling communication between various systems, including merchants, delivery drivers, and customers. Managing traffic from such diverse and numerous sources created complexity, requiring a solution that could effectively monitor and protect APIs without impacting performance.

Heavy Load & Spikes

With millions of users relying on its services, Rappi frequently experiences high traffic loads and unpredictable spikes, particularly during promotional campaigns or peak delivery times. The platform needed an infrastructure that could not only handle these surges, but also autoscale dynamically without compromising on speed, reliability, or security.

Infrastructure-as-Code (IaC) Approach

Rappi's Infrastructure as Code (IaC) methodology automates and streamlines its development and deployment processes. Securing APIs within this framework became a significant challenge. Ensuring consistent API security policies and seamless integration into the IaC workflow was critical to maintaining efficiency without introducing vulnerabilities or operational overhead.

These challenges underscored the need for a robust, scalable, and modern API security solution tailored to Rappi's complex environment.

Solution

To address its challenges, Rappi turned to Wallarm, an API security solution designed for modern, dynamic environments. Wallarm's advanced features and seamless integration capabilities provided the flexibility and scalability Rappi needed to secure its platform and ensure smooth operations.

Scalable and Resilient API Security for Heavy Loads

With Wallarm's ability to handle high traffic volumes and scale alongside Rappi's infrastructure, the platform could now manage heavy loads and sudden traffic spikes without sacrificing performance. Wallarm's cloud-native architecture integrated seamlessly with Rappi's existing autoscaling infrastructure, ensuring consistent protection even during peak usage.

Integration with Infrastructure-as-Code (IaC)

Wallarm aligned perfectly with Rappi's IaC approach, enabling the security policies to be codified and deployed in tandem with infrastructure updates. This integration streamlined Rappi's development and deployment processes, ensuring that API security was consistently enforced across all environments without adding operational complexity.

Support for multiple protocols

Wallarm's support for multiple protocols, including REST and SOAP APIs, ensured Rappi could secure its diverse API ecosystem without compromise. This comprehensive, protocol-agnostic approach allowed Rappi to maintain robust security across legacy and modern systems, ensuring seamless communication and end-to-end protection for its platform.

Affordable and Powerful

Wallarm stood out as an affordable, yet powerful solution, offering top-tier API security capabilities while maintaining a cost-efficient pricing model. This balance between robust functionality and affordability made it an ideal choice for Rappi seeking comprehensive protection without exceeding budget constraints.

Outcomes

Implementing Wallarm provided measurable improvements in API security and operational efficiency:

Full Scalability and Seamless Integration

By embedding API security into Rappi's Infrastructure as Code (IaC) workflows, Wallarm enabled consistent protection across all deployment environments and multiple regions. This scalable approach ensured that API security expanded in tandem with Rappi's growth, providing a unified defense framework regardless of traffic volume or geographic distribution.

Faster Security Processes

Wallarm's automated API attack detection and response capabilities drastically reduced the time needed to secure new APIs. By aligning seamlessly with Rappi's development cycles, Wallarm ensured that security processes kept pace with the rapid deployment while maintaining robust protection.

Enhanced Risk Reduction

Wallarm's advanced threat detection capabilities and low false-positive rates gave Rappi confidence in the security of its APIs. Proactive mitigation reduces the risk of breaches, ensuring the safety of customer and business-critical information.

Cost-Effective Protection

Wallarm's comprehensive coverage delivered exceptional value by combining advanced functionality with affordability, making Wallarm a vital component of Rappi's security strategy.

Future-Ready Security Posture

Wallarm equipped Rappi with a future-proof API security solution that could adapt to evolving threats and expand alongside the company's infrastructure. By supporting both modern and legacy API protocols, Wallarm ensured that Rappi's platform remains resilient and agile in the face of new challenges.