Case study

ingenico

Modernizing Payment Infrastructure at Ingenico

With Gloo Gateway, centralizing multiple bankingsystems and payment methods was simple.

Industry:
Financial Services

Company Size:
3,500 employees

Location:
France

Before their modernization efforts, Ingenico’s payment systems were decentralized and relied on legacy technologies. Integrating with multiple banking systems posed challenges, and managing diverse payment methods required a centralized solution. The transition to cloud-native architecture and Kubernetes environment demanded a reliable and scalable API gatewaysolution.

Ingenico chose to use Gloo Gateway as its API gateway to power the new payment systems. Gloo Gateway’s cloud-native architecture, based on Envoy Proxy, offered scalability, performance, and flexibility crucial for managing diverse payment methods and accommodating high transaction volumes.

The Challenges

- Legacy infrastructure: Ingenico’s payment systems operated ondecentralized and legacy technologies, posing integration challenges withmultiple banking systems.
- Critical cloud-native transition: The shift towards cloud-native architecture and Kubernetes demanded a reliable, scalable, and flexible API gateway solution.
- Diverse payment methods: Managing various payment methods required acentralized solution, as the existing systems were scattered and lackeduniformity.

> “We landed on Solo.io as a partner because theirsolutions are really good in terms of operability, scalability, and performance.”
>
> Mohamed Ounis
> Platform Engineer at Ingenico

The Solutions

- Cloud-native architecture: Ingenico embraced a cloud-native approach, leveraging modern architectural principles to ensure flexibility, scalability, and resilience.
- Microservices-based design: Implementing a microservices architecture facilitated modularity and agility, allowing for independent development, deployment, and scaling of services.
- Envoy Proxy integration: By integrating with Envoy Proxy, Ingenico ensured robust traffic management, security, and observability across its distributed payment infrastructure.
- Seamless Kubernetes integration: Gloo Gateway seamlessly integrated with Kubernetes, providing orchestration and management capabilities essential for deploying and scaling containerized applications.
- GitOps mindset adoption: Ingenico adopted a GitOps mindset, emphasizing declarative infrastructure management and version-controlled configuration to streamline deployment and ensure consistency.
- Developer empowerment: Delegating routing configuration tasks to developers empowered teams to take ownership of application behavior, promoting collaboration and accelerating development cycles.

> “The system is really tolerant to fault, and can recover and ensure the business it’s meant to support.”
>
> Mohamed Ounis
> Platform Engineer at Ingenico

The Outcomes

- Impressive performance:
  Ingenico achieved transaction processing speeds of up to 3,000 transactions per second during peak loads, leveraging Gloo Gateway’s scalability and auto-scaling capabilities.
- Future readiness:
  Ingenico positioned itself for future growth and innovation now that it’s equipped with a modern, adaptable payment infrastructure capable of meeting evolving market demands.
- Improved operational efficiency:
  Gloo Gateway’s fault-tolerant design minimized downtime, enabling quick recovery from incidents and ensuring business continuity.
- Streamlined development processes:
  Developer empowerment and GitOps adoption streamlined deployment workflows, promoting collaboration and accelerating time-to-market.

What’s Next

Looking ahead, Ingenico plans to scale its managed payment solutions globally, introducing them to clients across regions. The company aims to continue its partnership with Solo.io, exploring additional solutions such as Gloo Mesh to enhance its ecosystem further.

About Solo.io

Solo.io, the leading application networking company, delivers a service mesh and API platform for Kubernetes, zero trust, and microservices. The components of Gloo Gateway and Gloo Mesh enable enterprise companies to rapidly adopt microservice applications as part of their cloud journey and digital transformation. Solo.io delivers open source solutions, and is a community leader in building the technologies of the future.

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www.solo.io