

Case Study

Perfect Connections

Modernizing Payment API Infrastructure for Enhanced Security with Azure APIM



Summary

API management framework to enhance security, streamline operations, and improve developer engagement. By leveraging Azure API Management (APIM), the organization implemented advanced features such as secure developer portals, robust API governance, and detailed usage analytics. These improvements enabled seamless internal and external API consumption, delivering enhanced security, scalability, and compliance.

Client Overview

A premier organization governing electronic payments through the ACH Network, facilitating direct deposits and direct payments across all U.S. bank and credit union accounts.

Headquarter Virginia	Revenue \$35.3M
ACH transactions \$31.5B	

Pressure Points

The client sought to transform its API management system to meet modern standards of security, scalability, and developer engagement. The focus was on exposing APIs using Azure APIM while addressing governance, security, and performance challenges.

Need to expose and manage two critical project APIs using Azure APIM	Required comprehensive API governance and security implementation	Demand for enhanced developer engagement through a secure and reliable data-sharing platform
Need for advanced API management features including Developer Portal and API products	Need to enhance developer's engagement by providing a secure and reliable platform for data and sharing using Azure APIM	

Solution Highlights

Implementation of a comprehensive Azure API Management solution with enhanced security features and developer-friendly capabilities.

Developed robust API policies incorporating security, rate limiting, and authentication protocols	Customized developer portals with self-service API registration capabilities	Implemented a comprehensive monitoring system using Azure Monitor and Application Insights
Established Role-Based Access Control (RBAC) for APIs and users	Deployed self-service key management capabilities	Integrated monetization module for client-facing APIs

Single Gateway Centralized management of APIs across back-end systems	Enhanced Security Advanced rate limiting, throttling, and compliance features	Usage Analytics Comprehensive API performance tracking for data-driven decisions
Scalability Enabled pay-as-you-go features for cost optimization	Accelerated time-to-market for APIs	Improved API governance and compliance