



# Engineering High Performance Across Global Teams

## OVERVIEW

A global manufacturing organization maintains an internal developer platform used by API teams and external partners to build applications and manage access to services. The platform plays a critical role in enabling digital products and connected software offerings. As adoption grew, performance bottlenecks and inconsistent engineering practices began impacting delivery predictability. Source Allies partnered with the organization to stabilize the platform and improve performance across a globally distributed team.

## APPROACH

The engagement focused on stabilizing the system, modernizing workflows, and strengthening delivery consistency.

- **Performance and Scalability:** Identified bottlenecks through stress testing, reduced latency on high-traffic endpoints, and refined autoscaling to improve reliability and cost efficiency.
- **Engineering Quality and Testing:** Established stronger testing practices, integrated automated tests into CI/CD, and improved local development workflows to catch issues earlier in the development cycle.
- **Modernized Development Practices:** Strengthened code reviews, deployment pipelines, and overall development consistency while updating outdated dependencies and improving maintainability.
- **Global Collaboration and Enablement:** Improved knowledge sharing and enabled more effective asynchronous communication across distributed teams.

## Results

**87%** Lowered the number of service alerts by 87%

**38%** Cut deployment time by 38%

**100ms** Went from 1-2 second response times with application under load to under 100ms

## SOLUTION

The team enhanced a developer platform that enables internal API teams and external partners to create applications and manage access to services. Built using TypeScript, React, and cloud-based infrastructure, the platform supports application registration, authentication, and API consumption workflows. Improvements focused on performance, reliability, and maintainability while modernizing development practices and strengthening collaboration across globally distributed teams.