LEVVEL

Digital Supply Chain Leader Delivers More Efficient IT Infrastructure Management with AWS Migration

Modernizing infrastructure environment to consolidate critical acquisitions data and optimize cost

AWS MIGRATION | DEVOPS | T&L | SUPPLY CHAIN

Introduction

A leader in digital supply chain technology obtained a portfolio of applications and capabilities through multiple acquisitions. To integrate these capabilities with existing processes and value proposition, they decided to migrate the acquired company's infrastructure from an on-premises, third-party data center to an Amazon Web Services (AWS) managed public cloud hosting environment.

With Levvel's help, the client created a more sustainable environment that employed industry best practices, managed costs, and promoted security, compliance, and elasticity.

Challenge

Navigating the nuances of each acquisition's IT environments was a challenge. With this being a custom-built solution for each integration, each IT environment was at different stages of modernization and lacked consistent best practices. Navigating the application stacks presented significant risk and time constraints, as there was minimal access to key IT team members from the acquired companies.

There were multiple other challenges, including:

- Transforming legacy applications and processes to use modern architectures
- Enabling team culture that aligned to automation vs. manual processes
- Addressing hardware failures with current on-premise monolithic data center
- Acknowledging single-tenant (serving one customer) versus multi-tenant applications
- Implementing critical knowledge transfer, sign off, or validation from internal teams

> Integrating systems acquired through mergers and acquisitions can be a drawn-out process, and managing timelines, compliance, security, and costs can impact the success of the integration. The client trusted us to craft an effective strategy for addressing objectives and ensuring that the sensitive information processed were appropriately managed in the cloud.
>
> Srinivas Coimbatore, CloudOps Capability Lead, Levvel

Approach

Levvel's mission was to migrate an initial set of high-priority applications to AWS and create deployable runtime environments that were completely curated through automation and auditable solutions. The successful completion of this transformation enabled Levvel to create a predictable and repeatable process to update applications and databases.

Levvel's approach involved:

- **Workshop:** A week-long workshop to outline key objectives, milestones, risks, gaps, assumptions, and high-level approaches to key deliverables. This enabled all stakeholders to develop a deep understanding of the roadmap, timelines, and scope. During the workshop, participants discussed any conflicts, including any competing priorities and identified the initial steps to begin the migration.
- **Implementation:** During weeks two and three, work began on implementing the basic infrastructure needs for AWS migration. After getting the correct network details and the appropriate validation teams engaged, Levvel engineers began migrating the supply chain leader's initial clients to AWS.

Results

The series of AWS migrations were successful with the delivery of a modern and updated environment. This environment provided much-needed IT stability, as well as confidence and competence to:

TEAM SIZE	TIMELINE
x8	10 months

- Implement CI/CD pipeline vs. handcrafted deployments
- Optimize costs, promote security, and remain compliant
- Apply Git-based branching strategy and action-based code management
- Enable elastic infrastructure to address critical bottlenecks
- Increase up-time and application responsiveness

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