

## Case Study

# Application Migration and Modernization of SaaS Platform

 Leapfrog  
IoT

## Business Advantages

- Increased business continuity and profitability
- Enhanced transaction velocity and service agility
- Better customer satisfaction and experience

## Technical Advantages

- Public cloud for better scalability, more flexibility, and faster innovation
- Robust multi-tenant environment for data privacy
- Better customization capabilities for customer personalization

## Service Stack

- EC2, S3, SNS, VPC, AWS Config, ELB, Cloud Front
- Kafka, Elastic Search, MySQL, MQTT, Node.JS, Python, TensorFlow

## The Customer

Leapfrog IoT is a leading SaaS-based security IoT provider with AI and video analytics capabilities for safe cities. Using advanced AI and video analytics, Leapfrog IoT offers a variety of solutions to aid in the safety and security of facilities that provide a better, safer space. Leapfrog IoT platform is built on top of a strong AI/ML foundation allowing rapid development and deployment.

## The Challenge

Leapfrog IoT was hosting its security offering on Digital Ocean. However, as their customers install base increased, they were required to provide services that could scale and be customizable for each of their customers' needs. This required a highly extensible and versatile environment, yet with economies of scale, data privacy, agility, and flexibility to grow their business in a competitive line of business.

## The Solution

Digitalstates stepped in to help Leapfrog IoT. It evaluated the customer's business requirements along with its current compute load and data volume and provided recommendations to move to the cloud such as AWS, for better scalability and robust multitenancy. Digitalstates helped Leapfrog IoT change some of the key elements of their platform to adapt AWS services including S3 for data storage and SNS among others. Digitalstates delivered three AWS environments Dev, Stage, and Prod along with automation using Terraform, Ansible, and Jenkins.

## The Outcome

Post successful cloud migration, Leapfrog IoT was able to rationalize their per-customer cost more effectively and was able to provide more effective multi-tenancy for customer data privacy. Leapfrog IoT had much better-managed environment and customer experience that resulted in reduced complexity, better scalability, and more profitability.