

Infrastructure and Applications Migration - Azure to AWS Cloud



Executive Summary

Roambee decided to migrate the infrastructure and application services from Azure to AWS. Intuitive Technology Partners, Inc. (ITP) is leading the cloud strategy, architecture, migration, and managed services for Roambee.

Goals

Improves reliability, availability, and scalability

Deliver a reliable, scalable, and secure infrastructure solution that complies with current technology requirements and scales automatically to meet real-time demand, leading to improved performance and uptime availability of the Supply Chain solution on AWS.

- The improved cloud solution and service will incorporate automation to quickly scale the organization and reduce downtime through real-time proactive management of AWS capabilities.
- Deliver an improved managed engineering services support strategy in order to achieve customer satisfaction and company SLAs.

Reducing Monthly Spend with Transparent Billing

Move infrastructure and applications from Azure to AWS's consumption-based pricing model to achieve cost savings and exploit technology advancements.

Challenges

The existing methodology for delivering Azure managed services does not adhere to operational and security standards, increasing the overall vulnerability of the company. Also, with the existing configuration, it is challenging for Roambee's to perform end-to-end monitoring of highly precise supply chain signals based on item-level, first-hand IoT sensor data, and non-sensor inputs.



Roambee is a California based global supply chain technology company providing better visibility for Shipments and Supply Chain Assets across the Transportation, Logistics, Supply Chain and Storage segment. Roambee offers verifiably better supply chain visibility on demand, for on-time, in-full, in-condition delivery of shipments and assets globally.

300+ enterprises are enhancing customer experience, service levels, product quality, cash cycles, business efficiencies, sustainability, and automating logistics with Roambee's real-time insights & foresights. More than 50 enterprises among them are the top 100 global companies in the Pharma, Food, Electronics, Chemicals, Automotive, Packaging & Containers, and Logistics sectors.

Gartner identifies Roambee as one of the 9 global supply chain technology companies in "2021 Gartner Tracking and Monitoring Business Process Context: Magic Quadrant for Real-Time Transposition Visibility Platforms."

Intuitive Technology Partners, Inc.

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Solutions and Outcomes

Roambee utilizes multiple AWS accounts strategy to host the application in AWS Cloud platform. ITP delivered a solution design supporting multi accounts strategy by leveraging AWS Organization. The design solution also includes VPC, NAT Gateway, IPSEC VPN tunnel, IAM, Security Group, EBS encryption, S3 encryption, etc., to provides seamless and secure network connectivity with high availability and fault-tolerant performance. The following tasks were completed to define the migration solution.

- Designed AWS landing zone, network and security architecture for Roambee’s application
- Designed a monitoring and logging solution for end-to-end monitoring of IoT apps
- Defined the application migration solution that will ensure no application changes
- Completed a thorough Proof of Concept to identify the automated application and infrastructure migration strategy that is the quickest, most affordable, least disruptive, and most effective
- Established fully automated processes and toolsets to complete application migrations quickly
- Delivered complete engineering designs supporting migration runbooks, platform designs and configurations, and a complete knowledge transition strategy to the Roambee business and technology teams

Engineering Services

The ITP Managed Engineering Services offer white glove customer engagement, 24 x 7 support, improved proactive monitoring and alerting, enhanced network and engineering services for all on-prem to AWS interconnectivity, as well as continuous delivery of network and security standards, configurations, execution of changes, and End-Point device security.



Intuitive Technology Partners, Inc. (“ITP”) is an engineering firm headquartered in New Jersey with Centers of Excellence across the Americas, EMEA & APAC. We are a strategic solutions & professional services provider supporting global enterprise clients. We have been intimately involved in Public & Hybrid cloud transformation journeys. Additionally, we continue to invest in innovative Cloud & Security startups that provides tremendous value to our customers and partners addressing key business and technical challenges.



Core Solutions & Services:

- [Cloud Migrations to AWS](#)
- [DevOps & DevSecOps with AWS](#)
- [Migration to AWS Aurora/RDS Database](#)
- [Migration to AWS DynamoDB](#)
- [Containerization Management & Orchestration with AWS](#)
- [VMware Cloud on AWS](#)

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