

AWS Landing Zone Architecture and Implementation



Executive Summary

AHS decided to migrate their infrastructure and application services from on-premises to AWS. Intuitive Technology Partners, Inc. (ITP) is leading the cloud strategy, architecture, migration, and managed services for AHS.

Goals

Improve security, manageability, and create future-ready footprints

Deliver a highly secure and future-ready cloud solution for AHS apps and maturing AHS legacy cloud environments.

- The enhanced cloud solution will deploy and optimize Control Towers, OU, EDAP, DX, and cloud security solutions.
- Deliver enhanced managed engineering services support and infrastructure automation.

Creating landing zone architecture, organization structure, and hierarchy

Creating a landing zone to let AHS quickly set up a safe, multi-account AWS environment using AWS best practices.

Challenges

Setting up a multi-account environment is time consuming as it involves setting up numerous accounts & services and needs a complete understanding of AWS services due to the vast array of design options. It is challenging for AHS to create an enterprise-class structure without having an optimized solution for multiple AWS accounts, users, and organizational units.



Atlantic
Health System

Atlantic Health System (AHS), a New Jersey based leading non-profit health care systems provider is known for providing exceptional patient outcomes and experiences. At AHS, they are committed to provide the highest quality care delivered at the right time, at the right place, and at the right cost.

Powered by a passionate workforce of 18,000 team members and 4,800 affiliated physicians dedicated to building healthier communities, Atlantic Health System serves more than half the state of New Jersey, including 11 counties and 4.9 million people. The system provides care for the full continuum of health needs across a wide array of settings, including 12 urgent care centers, virtual urgent care and other telehealth services, Atlantic Rehabilitation Institute and Atlantic Visiting Nurse. Facilitating connections between these services on both land and air is the transportation fleet of Atlantic Mobile Health.

Intuitive Technology Partners, Inc.

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Solutions and Outcomes

AHS 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 landing zone. The design solution also includes AWS Config, Guardrails, CloudTrail, AWS SSO, AWS Security Hub, AWS Control Tower, AWS Organizations, encryption, etc. ITP solution provides seamless and secure architecture with high availability and fault-tolerant performance. The following tasks were completed to define the AWS Landing Zone solution.

- Designed AWS landing zone architecture for AHS
- Implementation of landing zone using AWS Control Tower
- Deployed IaC on all AWS native infrastructure and services
- Designed highly secure architecture using AWS services like AWS Security Hub, Macie, Guard Duty
- Designed and implemented tagging policy for all AWS resources
- Completed a thorough Proof of Concept to identify the automated application and infrastructure strategy that is the quickest, most affordable, least disruptive, and most effective
- Established fully automated processes, toolsets, to quickly setup landing zones
- Delivered complete engineering designs supporting runbooks, platform designs and configurations, and a complete knowledge transition strategy to the AHS 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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