



## AWS Cloud Migration and DevOps

### Client Profile:

Property & Casualty Insurance Company

### Business Challenge

Our client was struggling with the complexities of securing, managing, and optimizing its AWS environment. As part of their modernization efforts, they wanted to adopt DevOps methodologies, including infrastructure as code and native AWS security features. In addition, they needed to migrate their containerized applications from on-premises systems to AWS Elastic Kubernetes Service (EKS), adding another layer of complexity. Without in-depth expertise in these areas, the company required a trusted partner to help them navigate this transformation.

### Technical Challenge

The company identified three critical objectives for their AWS transformation:

1. Seamlessly migrate on-premises workloads to AWS with minimal disruption.
2. Build internal proficiency in DevOps methodologies and infrastructure as code to manage and optimize their cloud environment effectively.
3. Establish a secure, scalable, and well architected AWS environment to support future business growth.

Success was measured by the smoothness of the migration, the team's ability to independently manage AWS resources, and the implementation of a well-architected cloud framework.

### Our Solution

The Keyva team designed and executed a comprehensive strategy tailored to the client's needs. The strategy was focused on governance, automation, security, and knowledge transfer. It included: :

- **Streamlined Governance:** Implemented AWS Control Tower, single sign-on (SSO), and a well-architected multi-account structure to centralize management and enhance control.
- **CI/CD Implementation:** Leveraged Terraform and GitLab to create efficient CI/CD pipelines for



- **GitOps Enablement:** Deployed Flux to establish a GitOps framework that simplified Kubernetes workload management while improving security and reliability.
- **Enhanced Networking and Security:** Created a shared services account and deployed a transit gateway to centralize networking operations and fortify security across the AWS environment.

## Results

The Keyva team drove measurable improvements and better outcomes, including:

- **Seamless Migration:** Successfully migrated containerized applications from on-premises systems to AWS EKS with minimal disruption.
- **Internal Enablement:** The company's internal team gained confidence and proficiency in AWS and DevOps practices, with several team members achieving AWS certifications.
- **Secure & Scalable Cloud Infrastructure:** Established a robust, well-architected AWS environment, ensuring security, governance, and scalability to meet future business demands.

Through a combination of technical implementation and hands-on knowledge transfer, the organization transitioned from struggling with AWS complexities to independently managing a secure and optimized cloud environment.

## Why Keyva?

Keyva's deep expertise in AWS, DevOps, and automation enabled our client to modernize its cloud infrastructure with confidence. By implementing tailored governance, security, and automation frameworks, Keyva ensured a smooth migration and a scalable, well-managed AWS environment. Through hands-on training and continuous support, Keyva empowered the client's internal team to manage and optimize their cloud operations independently.