



IT Modernized

CLIENT PROFILE

National Life Insurance Company



BUSINESS CHALLENGE

A large life insurance company was engaged in a major IT modernization initiative. The client was experiencing employee and customer complaints about system downtime and slow response times. They needed to take workloads that were running on-premises to the cloud to provide a better user experience while gaining flexibility and agility. A key component of this was the implementation of a big data platform to improve how employee and insurance broker users were able to manage and interact with business data.



OUR SOLUTIONS

As part of IT modernization efforts, the decision was made to migrate from an on-premise data center infrastructure to the AWS cloud. Keyva was engaged to migrate containerized workloads from Docker Swarm to EKS Kubernetes, their preferred container orchestration platform.

In addition, the Keyva team developed and deployed a big data platform using Apache Kafka and other open-source tools with persistent volumes in Kubernetes to improve system response times to satisfy user requirements. Infrastructure-as-Code (IaC) was set up for deployment to AWS, and GitLab pipelines were used to deploy Apache Kafka, and other Java-based containerized workloads into EKS. Flux was used for GitOps, and leveraged the Kustomize and Helm controllers that would deploy application Helm charts created by various development teams. A structure outlining base-level artifacts with the flexibility to allow application-level customizations was created.

Keyva DevOps experts worked with the in-house engineering team to upskill on the new tools and methodologies. Additionally, they provided mentoring as they worked to operationalize workloads for IaC. The Keyva team also documented all DevOps practices in Confluence to accelerate the onboarding time for new team members and creating an internal knowledge base.



THE OUTCOMES

This engagement prepared the organization to shift their application infrastructure to a public cloud environment. This will help the client meet their goal of improving response times as well as resolving ongoing infrastructure maintenance challenges that had been overburdening their IT teams. The knowledge transfer activities provided by the Keyva engineers also helped the Operations and Infrastructure teams become more agile and efficient in how they deliver services to the business. So, now they have more time to support business innovation.