Case Study

Greenfield AWS Setup Application Modernization Using Kubernetes for an Indian InsurTech Unicorn Backed by One of the Large Global Insurance Conglomerates

Client

The client is India-based General Insurance company, offering a robust InsurTech platform to provide digital insurance service to its customers. This company provides a wide range of products, ranging from Health to Motor and Travel Insurance, boasting end-to-end digital customer onboarding and support across all its products.

Challenges

▶ The client wanted to deploy one of their core insurance applications on AWS, as they needed quicker scaling to accommodate their exponential growth.

▶ They had created the microservices for the Non-ABS insurance applications, which they wanted to containerize and deploy on Kubernetes cluster on AWS.

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▶ This being the first cloud deployment for the client; a greenfield AWS landing zone setup was automated, establishing organization and supporting accounts.

▶ A complete infrastructure build was automated using Terraform scripts, which were replicable for future deployments as well.

▶ A microservices-based architecture, with container management using Kubernetes, CI/CD using Jenkins and Maven, and configuration management using Ansible, was implemented. The complete architecture was designed on a scalable model within auto-scaling groups, to tackle immediate spurt in the policy processing count.

▶ Using the implemented architecture, the client was able to scale up their processing performance by 100 times during the pandemic, for digital policy issuance.

▶ In addition to the continuous consulting engagement with the client and end customers for enhancements, LTIMindtree also engaged to maintain the client's environment 24x7, through its managed services offering.

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Business Benefits

500+

VMs environment scaled using new architecture

5X

increase in app performance

20,000+

transactions handled successfully by agent portal per day

Deployment time reduced after automation

80,000+

applications were processed per day, helped save 15% cost by moving to cloud