

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 an India-based general insurance company, offering a robust InsurTech platform to provide digital insurance services 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.



LTIMindtree Solutions

- ▶ 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.

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

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