



# Going Cloud-native

An Enterprise Shift to  
Microservices



**Our Client is one of the largest insurance groups in Asia with a strong presence in multiple markets.**

## First Steps Towards a Cloud-Native Future

Hailed as the next evolution of cloud computing, **cloud-native** is the approach that builds software applications as **microservices** to utilise the advantages of the cloud computing model to the fullest. The approach is expected to introduce changes to the architecture system, solve deployment problems and shorten time to market for applications.

Our Client expected **microservices**, as a foundational pillar of cloud-native, could address the unresolved issues underlying their existing system. Particularly, their application landscape was extremely complex, hence cost the firm lots of time and effort in making any alteration to the system, especially when it comes to developing new applications. **Loosely coupled microservices** allow applications to remain independently scalable and fault-tolerated, allowing faster modifications to the system without disrupting it.

Switching to **microservices** is a worthwhile investment but not an easy one. **Thanks to relevant domain experience and a fruitful partnership with the Client**, FPT was chosen to orchestrate their shift to **microservices**.

# Services and Solution

FPT participated in several discussions with the Client to grasp a profound understanding of their existing architecture and identify the priority application components to be developed into microservices. The fundamental procedures of the project were as follows:

- Decoupling the existing database based on business domains: Policy data, Claim data, Customer data, and Commission data.
- Decoupling applications based on domains/ categories and developing them into microservices through API-led integration
- Adopting the hybrid cloud approach to ensure backward compatibility with legacy systems.
- Creating a data lake that captures all enterprise data.

	<b>35%</b> increase in system adaptability, beating the 30% forecast
	<b>360 - Degree</b> view of customers based on data analytics
	<b>Near-Real-time</b> data processing
	<b>More Agile</b> insurance operations that support business growth
	<b>48 out of 48</b> applications were developed into microservices.



## Values

### System



The change in architecture adds an extra layer of adaptability to the enterprise system. A 35% increase was reported, surpassing the planned figure of 30%.

Microservices isolate errors and failure. Should a problem occur in one microservice, it can be fixed independently and cause no downtime to the entire system.

### Business



As microservices are loosely coupled, they allow scope for various modifications to be executed and new features to add without the need for a system-wide reconfiguration. This results in faster time to market.

Because of the cloud, near-real-time data processing and monitoring are made possible, thus allowing timely preventive measures in case of malfunctions.

Using the data lake as a single storage platform, the firm can eliminate data silos.