

Micro Services Transformation to Cloud

Toyota Motor System

SYNECTIKS

The Ask?

Need to consolidate our entire business from 4 different data centers to a Hybrid Cloud and bring agility, reliability, scaling, vendor neutrality with minimal operation cost?

Cloudify & Modernize Business

Wanted to maintain entire IT, fully software defined and reduce the operations effort to maintain 4 different physical data centers. Needs centralized source, true data and better data governance. Create an infrastructure with statelessness, horizontal scalability in services, better security and statistics of their exposed API to outside world. Wanted fast and accurate releases to meet growing business demand. Also needed major replatforming and rearchitecture of existing applications to meet agility and scalability that business demands. Above all, high capex on hardware and operations cost were a big concern. Wanted to achieve more for less with IT budgets.

The Answer:

We engaged in an assessment program involving multiple PoC's and thereby delivered complete software defined solution to manage their entire infrastructure and services in AWS cloud achieving the business SLA's.

Hmmmm...How did we Consolidate?

Many monolith applications, different hardware environments, hard to scale, hard to operate. We did a quick 360° audit of existing infrastructure, processes and came out with a plan to address key improvement areas with migration path and risks involved. We conducted multiple PoC's with customer to impart a solid understanding of the technologies to modernize IT. We translated entire hardware infrastructure into a few lines of software code that could create and maintain backbone infrastructure seamlessly. We refactored monolith applications to multiple microservices, established complete application lifecycle management and operation support system to maintain the business operations. We implemented required data security, governance and compliance requirements in cloud.

Outcome:

The resulting IT infrastructure is now fully Software Defined. The entire business system is managed by few resources reducing Capex by 80% and Opex by 70%. The business achieved Scalability, Reliability, Security, Agility, Performance, Operations SLA's.

Key Differences

- ✓ The customer could create and maintain their entire infrastructure with the code we created. They can create, modify and remove infrastructure needs in no time and its fully elastic.
- ✓ The devops automation help them to manage lifecycle of multiple microservices through automated platform, release quality codes in every hour if needed.
- ✓ The services achieved Elasticity, Scales up/down/out as per work load needs.