

Delivering Microservices Transformations for A Leading Telecom Provider



ATTENTION. ALWAYS.

aspire 
SYSTEMS
attention. always.

ABOUT THE CUSTOMER

Our client is one of the largest and leading telecom distribution companies in the Middle East with operations in Saudi Arabia, Bahrain and Oman. It is part of a major conglomerate based in the Middle East.



CHALLENGES

Our client's rapid growth in the telecommunications industry meant an exponential rise in user hit requests. Their mobile application was monolithic and could not sustain the massive increase in user hits when it raised above 6000 POS users.

The application was large (40MB) and had performance issues. Since it was large, it crashed frequently and was difficult to maintain. Reports were unavailable and took longer to generate even a small report. Its legacy database model and architecture decelerated its scalability and performance. The company could not meet the targeted SIM registrations therefore affecting overall revenues derived through the application.

SOLUTION

Aspire completely rewrote the existing monolithic application into an alternative Microservices application. The architecture maintenance was easy as it was reduced from 40MB to 7MB and paved for seamless deployment both in cloud and on premise.



Features of the Microservices Application

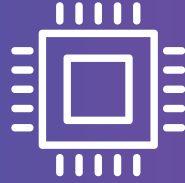
The application enables to register and activate SIMs through the authorized points of sale, which includes post-paid, prepaid and data SIMs. It provides many services such as number transfer across operators, SIM management, fingerprint management, balance recharge and ownership transfer.

More importantly, it could create reports that helps evaluate productivity and provide reports that can improve the business such as balance reports and operation reports. This custom report generation is available in both the application and website.

SERVICE OFFERINGS

TECHNOLOGY SNAPSHOT

- Java driven Microservices
- ATG, DevOps



Java 1.8, Spring Framework 5, Spring Boot, OAuth2, Hibernate/JPA, MySQL, MongoDB, Kafka, Zuul APIGateway, Eureka Service Registry, Docker, Kubernetes

AWS Tools:

IntelliJ Idea

Git Platform :

Linux

Languages:

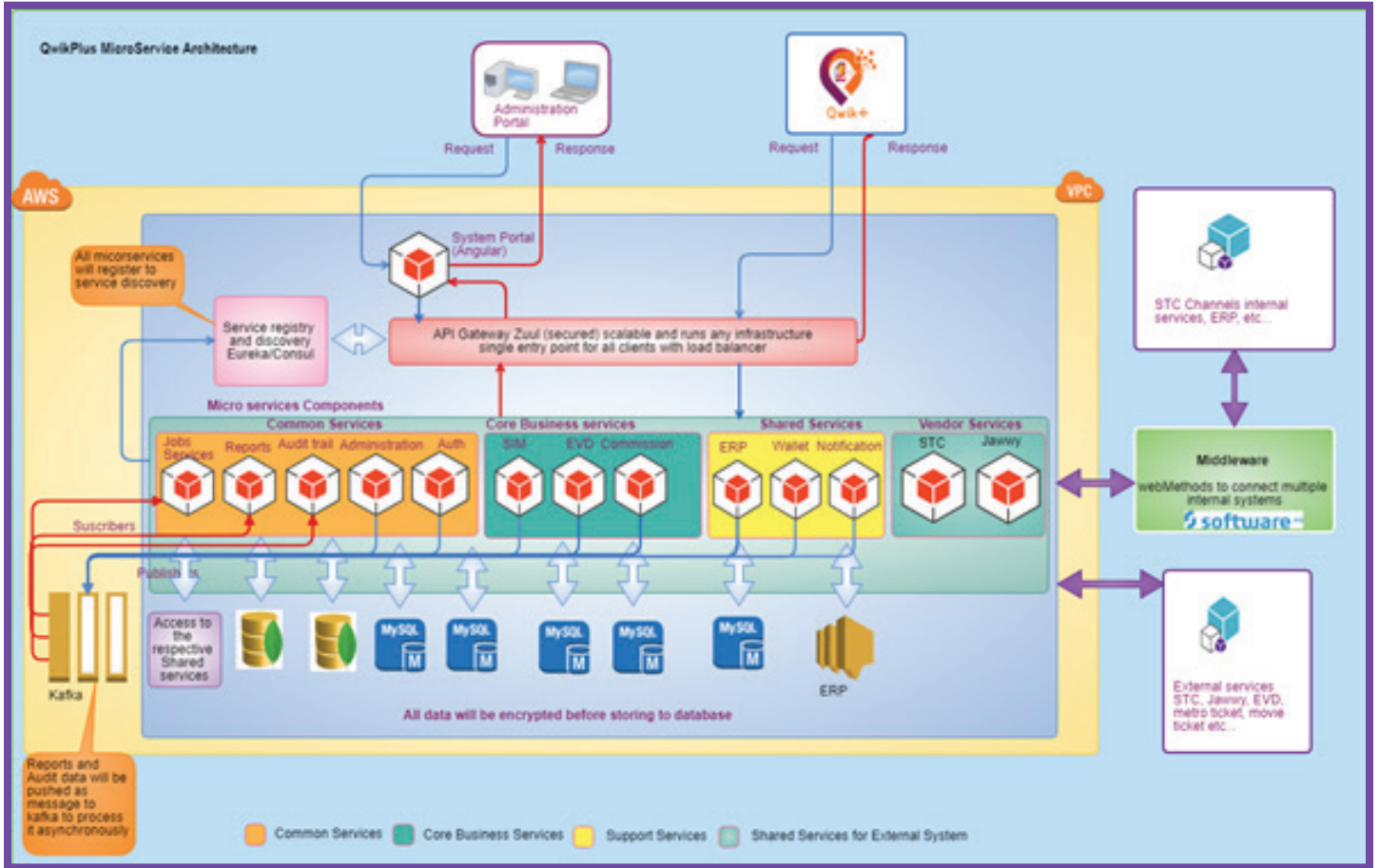
Java 1.8

Framework:

Spring and Hibernate



SOLUTION ARCHITECTURAL DIAGRAM



RESULTS

The transition from monolithic approach to microservices proved to be a brand differentiator in the following ways:

- Zero Downtime
- Accelerated Performance
- Reusable components which is usable by other applications and used independently
- Increased Revenue
- Reduced development, operational and maintenance costs
- Maintenance Free
- Crash free application
- Automated Infrastructure Management
- Decentralized Data Management
- Decentralized standards
- Aspire's 24/7 support



ASPIRE'S UNIQUE SELLING POINT

Aspire has an excellent COE for the Microservices Architecture and maintains excellent industry standards and MSA best practices. Our unique approach ensures that the solution can fit any domain and can be integrated into any system regardless of the technology involved.

The application has a revolutionary design for getting the best possible decomposed system, is replaceable and upgradable without affecting its collaborator. Its service enabled, independently run components are classifiable around business specific capabilities.

ROI

The Microservices approach proved to be a differentiator in registering a record 12,000 SIM cards in a single day.



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Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

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