Microservices – Case Study

K2VIEW » *Data without delay.*

Shift to microservices architecture slashes TTM and puts multi-billion dollar IT department into the fast lane

SOLUTION → Digital Transformation

INDUSTRY → Communications

K2View Fabric turns microservice theory into reality for major U.S. Telco, dramatically improving time to market, cost, and performance

SITUATION

Rising costs and constraints of legacy solutions hampering the delivery and performance of new capabilities

SOLUTION

K2View Fabric as data overlay to legacy systems that organizes data around what matters, then rapidly exposes it to microservices layer

RESULTS

- Time to market
- Performance
- Scalability & availability
- Security
- Savings

Challenge

- IT delivery of new services was taking months and was prohibitively expensive
- Dependence on legacy systems was holding IT hostage to technology vendors, forcing the continued investment in hardware and software licenses in order to support the delivery of new services
- Accessing data trapped in vendor systems required layers of expensive infrastructure, making new solutions brittle, slow and costly to deploy and run

Solution

- K2View Fabric deployed as the real-time data source for all microservice development and implementation
- Fabric provides independence from source systems, enabling microservices to achieve the desired performance, scalability, availability, cost, and security goals
- Fabric auto-generates web services to accelerate the development of microservices, and to eliminate load on existing source system interfaces , decrease cost, and improve resilience

Results

- Speed to market: Reduced TTM for new services to just hours or days from months
- Performance: 5x more throughput with 60% reduction in processing times
- Savings: Reduced license, support and maintenance costs by 60%, with 80% reduction in cores
- Strategic Value: Client adopting Fabric as the data foundation for the enterprise wide shift to microservices

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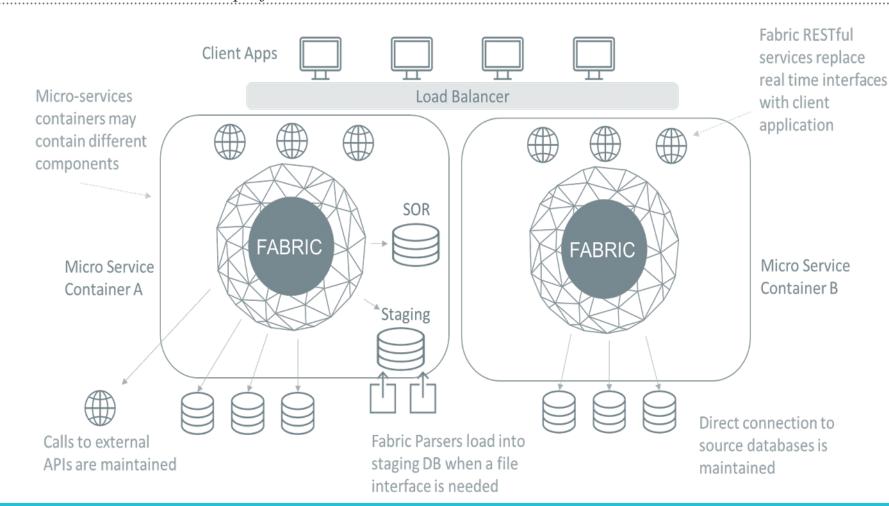
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FABRIC CONFIGURATION

- Fabric as real-time data overlay to legacy systems
- Separate micro-services containers may hold different components
- Fabric RESTful services replace real-time interfaces with client applications

RESULTS

- Reduced infrastructure footprint and 80% reduction in cores
- 5X throughput
- Improved security and resilience
- Accelerate TTM
- Independence from monolithic vendor applications

Client Apps

Load Balancer

Micro-services containers may contain different components

Micro Service Container A

SOR

FABRIC

Staging

FABRIC

Micro Service Container B

Fabric RESTful services replace real time interfaces with client application

Calls to external APIs are maintained

Fabric Parsers load into staging DB when a file interface is needed

Direct connection to source databases is maintained