Using Event Driven Architecture to Transform Core Banking



Acceleration of digitization:

- Traditional companies are becoming software companies, whether they like it or not!
- Customer experience demands are shifting
- More interaction with machines
- Machines are making simple decisions (and are better at it)

Banking is quickly shifting to meet the challenge. The question is, are they quick enough?



Key Premises

Customers demand ever better user experience at an increasing pace

We can't quickly replace legacy with greenfield



Regulation is here to stay; "you can't fight the man"

Finance emits hundreds of events, many worth acting on!



Case Study

The Business Situation of nearly every bank



Rising Mainframe Costs
Rapidly increased over last
years. Ongoing increase of +
5% CPU usage per year



More Devices more Channels 80% of online transactions

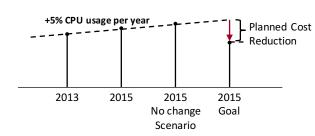
80% of online transactions from mobile devices

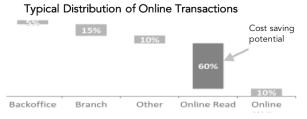
~60% of overall transactions are read-only request

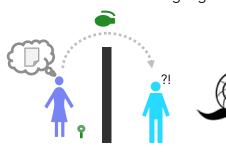


Slow Innovation

New products and services take months/years to deliver The business watches fintech with increasing fright



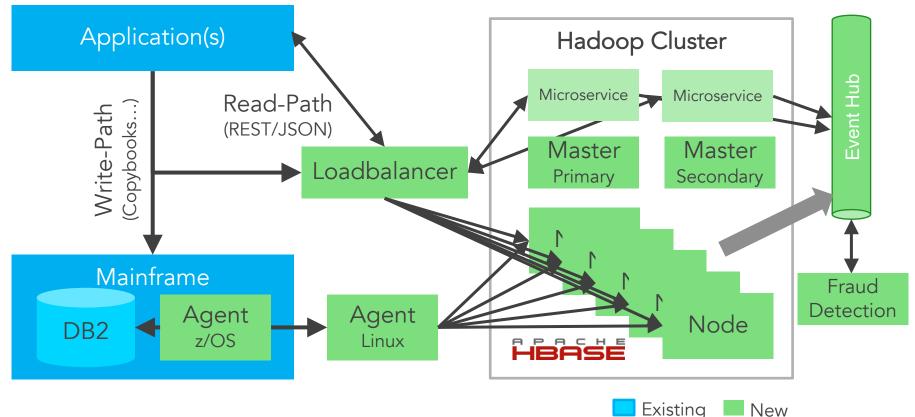




Banks are becoming software companies whether they like it or not, but often their digital product leaves a lot to be desired



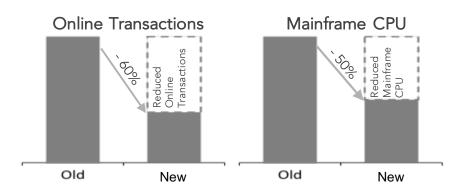
High Level Architecture



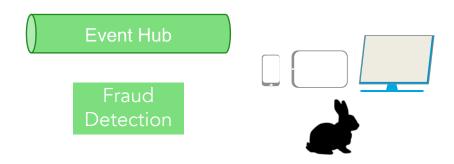


((emit))

Cost Savings + Market Leading Capabilities



- 50% reduction in mainframe CPU, 50% reduction in ongoing mainframe cost
- went from planned expansion to reduction in hardware

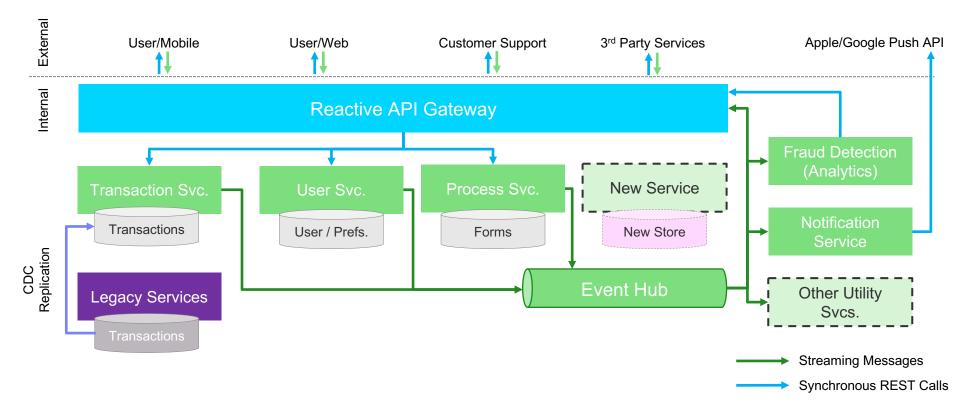


- Implemented fraud detection capability in 4 weeks, well short of 7 month deadline ©
- went from planned expansion to reduction in hardware

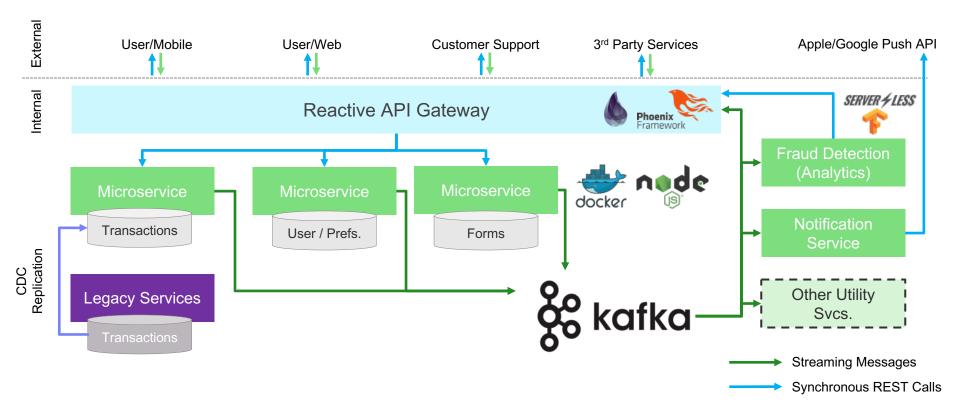


A Reference Architecture

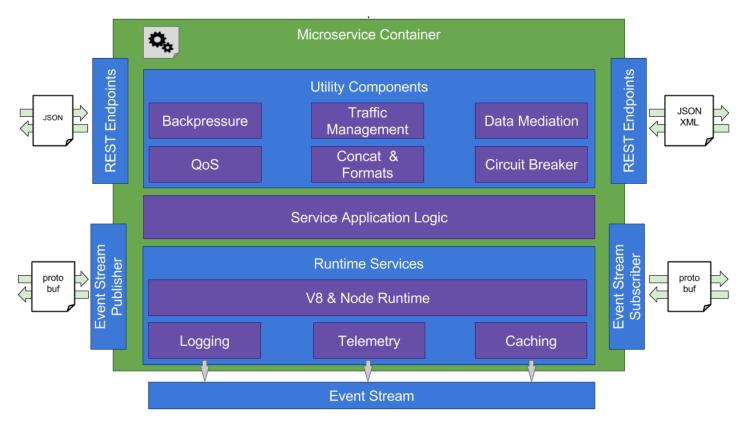
Logical Components



Technologies



Inside a Microservice





Extending to Other Industries: Decouple, Isolate, Hollow, Replace