



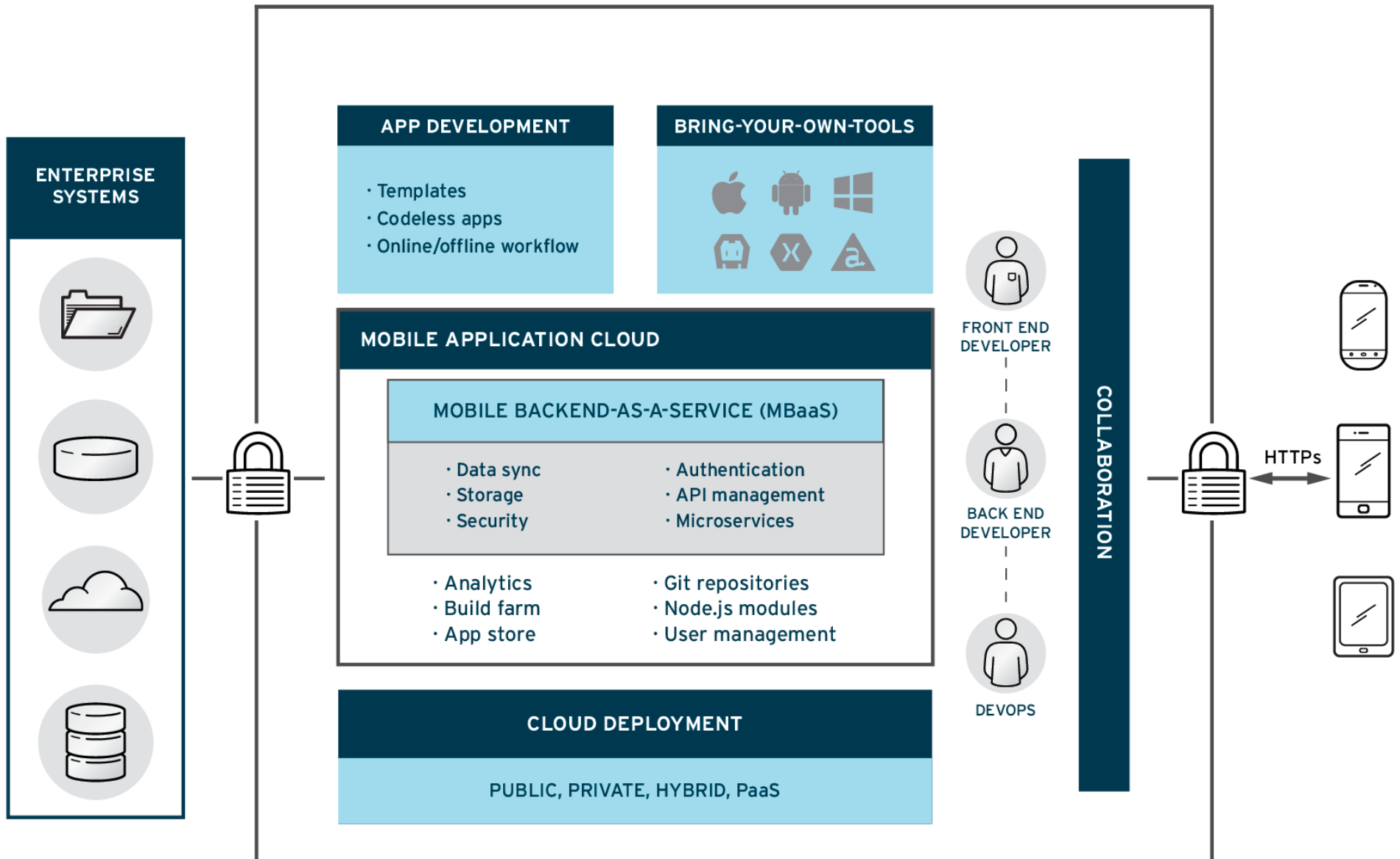
Red Hat Mobile Application Platform + OpenShift Online

**John Frizelle
Chief Architect, Red Hat Mobile**

Agenda

- What is Red Hat Mobile Application Platform?
- Mobile development consideration
- Mobile and Microservices
- Demo

What is Red Hat Mobile Application Platform?



Mobile development consideration

Traditional Approach

- System of Record
- Monolithic
- Multi Featured
- Long Development Cycle
- Costly
- Infrequent, Large Updates

The Mobile Way

- System of Engagement
- Simple, Nimble Apps
- Highly targeted to need
- Fast Development Cycle
- Affordable
- Continuous development & deployment

Mobile development consideration

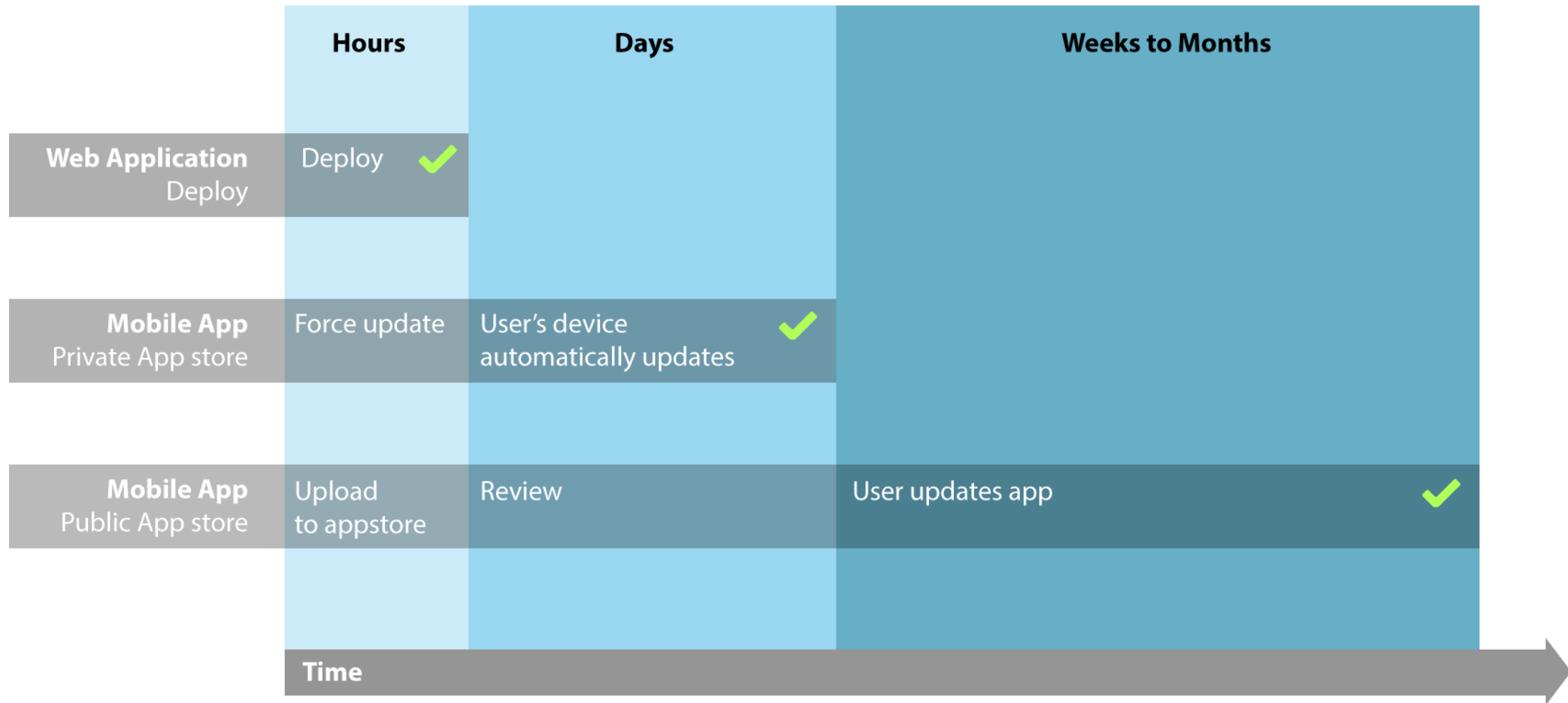
Web / Desktop Applications

- Performant Network Connection
- Can make any number of requests
- Payload size not a big concern

Mobile Applications

- Lossy Edge Networks => poor bandwidth
- HTTP Overhead slow => fewer requests
- Payload must be small => just enough

Mobile development consideration



Mobile and Microservices

“The term 'Microservice Architecture' has sprung up over the last few years to describe a particular way of designing software applications as suites of independently deployable services.”

- Martin Fowler

Mobile and Microservices

Traditional Approach

- Monolithic
- Multi Featured
- Long Development Cycle
- Costly
- Infrequent, Large Updates

The Microservices Way

- Simple, Nimble
- Highly targeted to need
- Fast Development Cycle
- Affordable
- Continuous development & deployment

Mobile and Microservices – Example

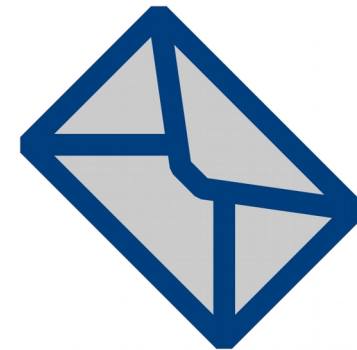
- App places orders for umbrellas



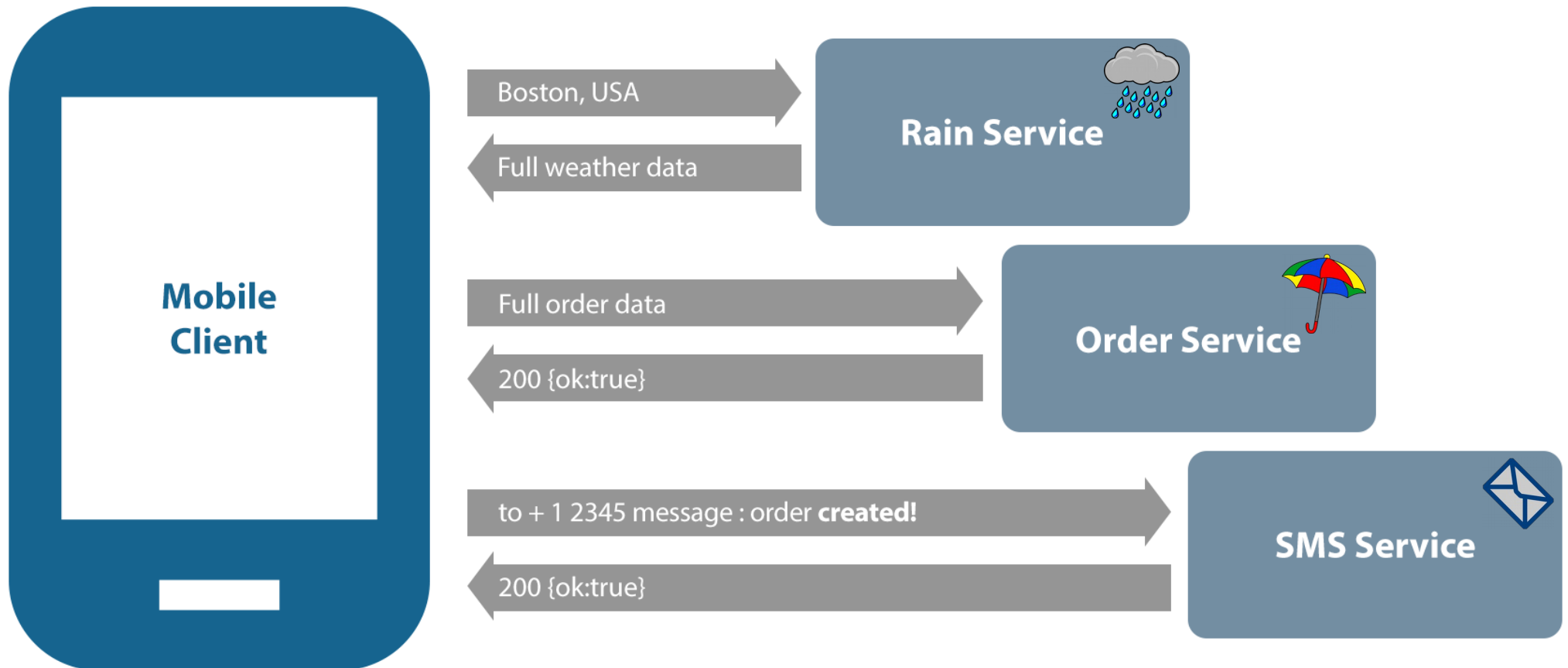
- Adjusts order based on predicted rainfall



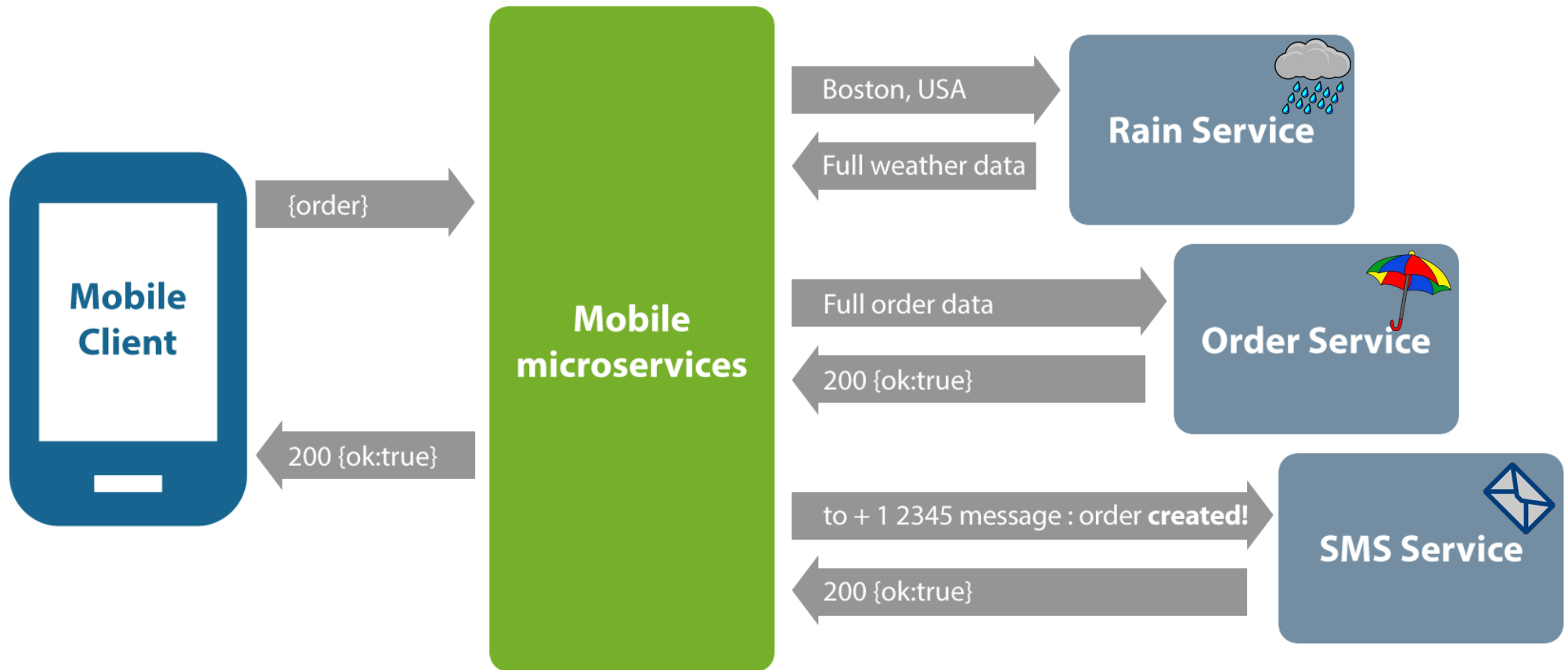
- Sends an SMS when order is placed



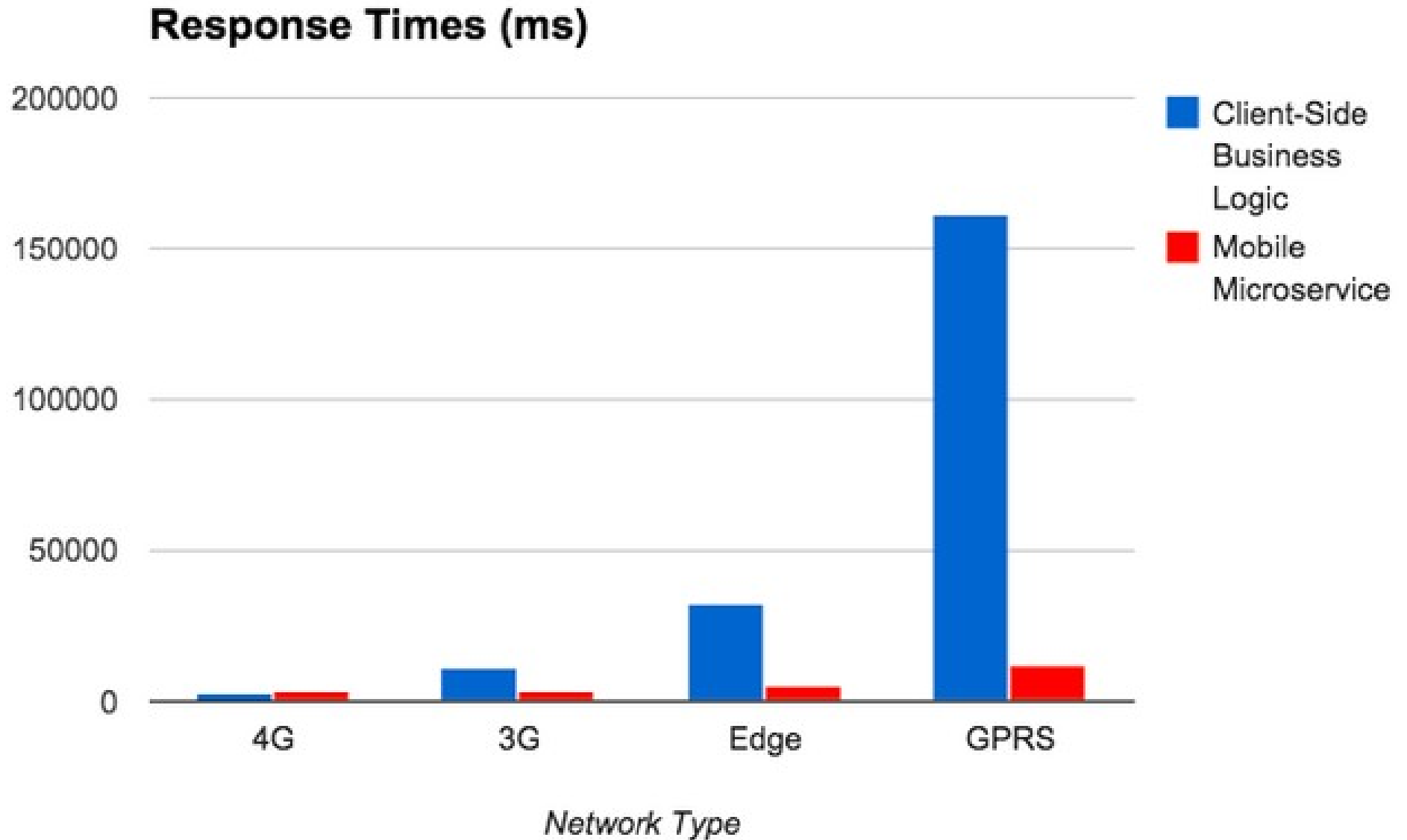
Mobile and Microservices – Bad Architecture



Mobile and Microservices – Good Architecture



Mobile and Microservices – Performance




</> APPS, CLOUD APPS & SERVICES

Below are all Apps, Cloud Code Apps and associated Services in this Project

Apps +


Barcode Client
Cordova Light
Updated 4 months ago



git@git.openshift.feedhenry.com:jfrizell/Ba... [Copy](#)

Cloud Code Apps +


Barcode Cloud
Node.js Cloud App
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MBaaS Services +

Barcode Reader - Connector
Service
Updated 4 months ago




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Image Stream Service -
Connector Service
Updated 4 months ago



[Discover](#)

Order Service - Connector
Service
Updated 4 months ago



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Thank You

John Frizelle