



MOBILIZING AND SECURING RED HAT JBOSS BPM SUITE & BRMS

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DIGITAL TRANSFORMATION?

“While its definition is fluid, ‘digital transformation’ is commonly understood as the means to exploit emerging technology to improve the customer experience and enable more adaptive business operations.”



- Carl Lehmann, Principal Analyst, The 451 Group

Digital Transformation with Red Hat

How have we applied emerging technologies for digital transformation?

- 2015 Red Hat Summit: Mobile + Business Process
- 2016 Red Hat Summit: Mobile + Business Process + Business Rules + Cloud
- 2017 Red Hat Summit: Mobile + API Management + Business Process + Business Rules + Cloud

MODERN APPLICATION DEVELOPMENT

Application Modernization

Cost/efficiency
Containerize monolithic apps

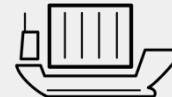


Agile Integration

Distributed integration, containers, APIs

Cloud-Native Apps

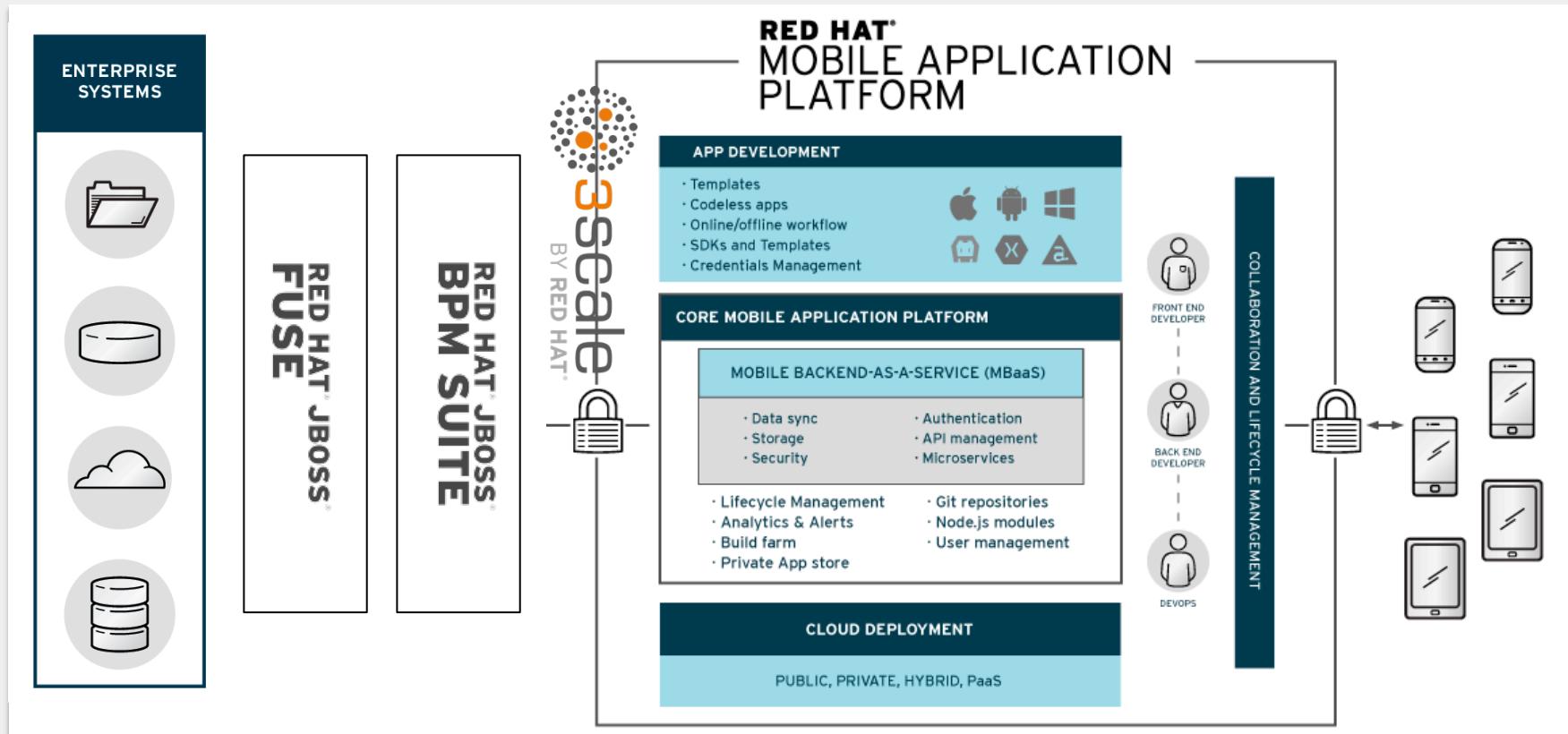
Microservices
DevOps
Containers



Process-Driven Apps

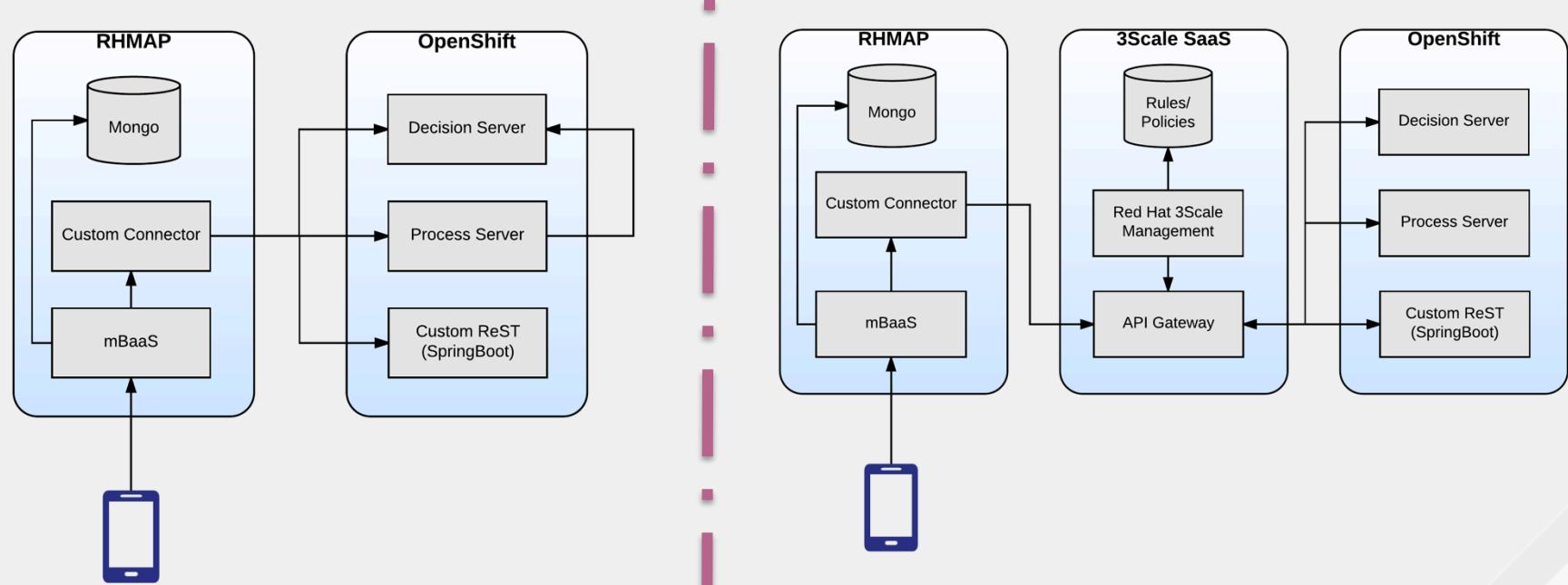
BPM, rules, optimization, mobile

RHMAP - 3Scale - RH JBoss



DEMO ARCHITECTURE

Before and After Red Hat 3Scale API Management

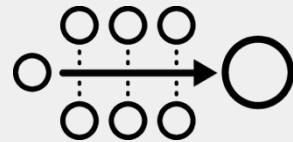


DEMO!

PROCESS DRIVEN APPS

PROCESS-DRIVEN APPS

Main Characteristics



Orchestrate

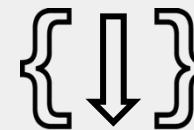
Between systems of engagement and systems of record

Collaboration between knowledge workers.



Automate

Manual Tasks & Decisions

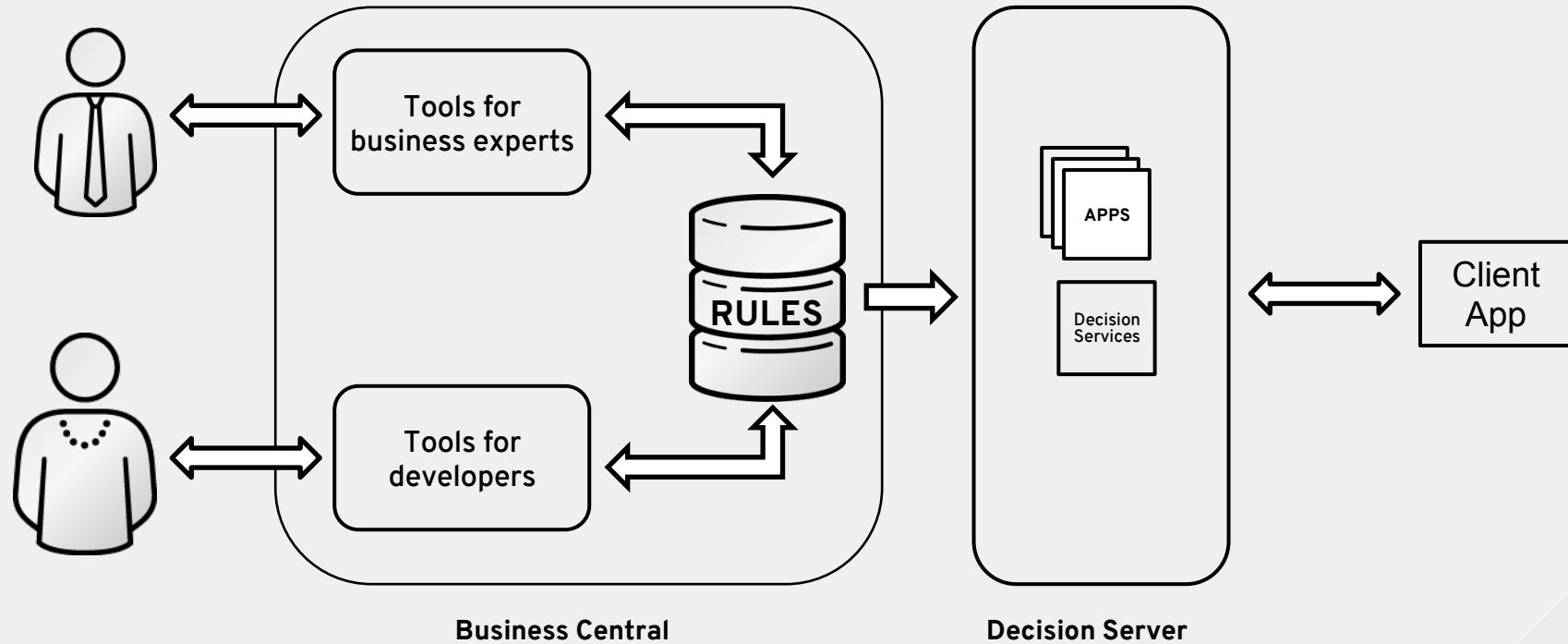


Enable

Business users to participate in application development

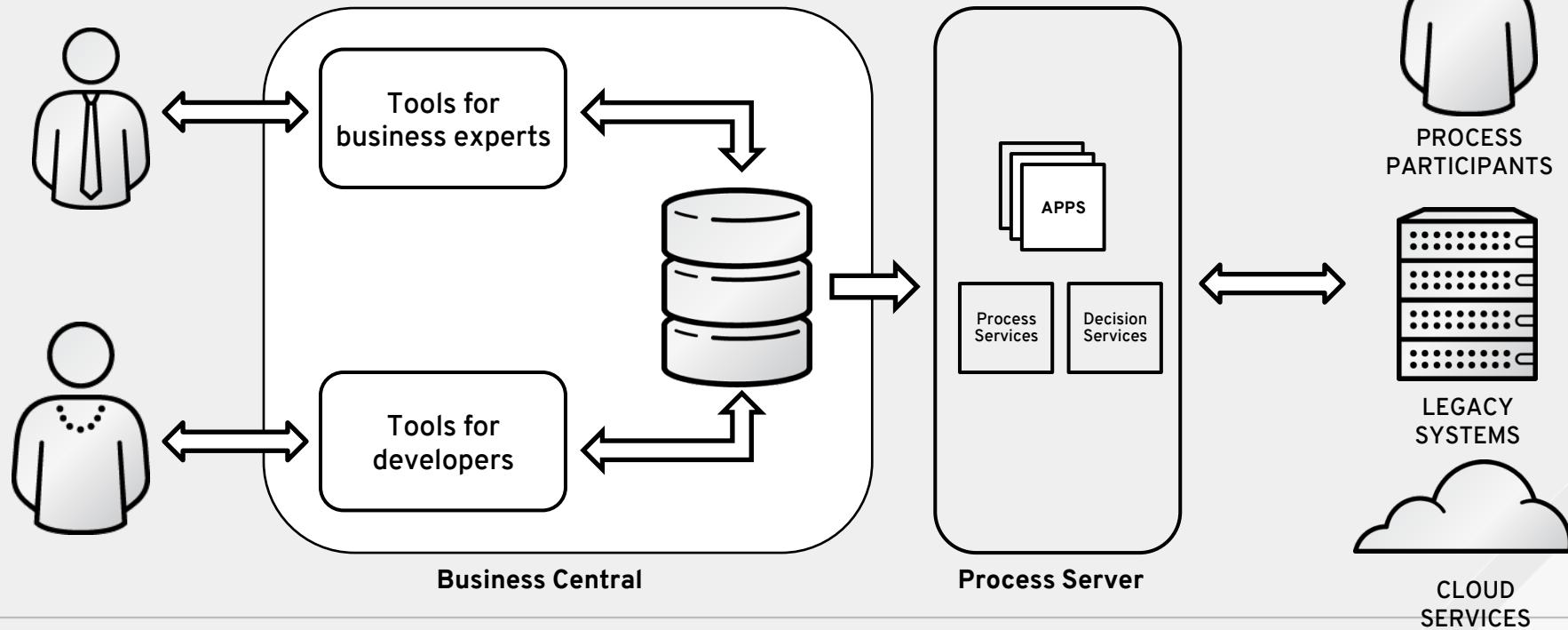
RED HAT JBOSS BRMS

Enables construction of apps that automate business decisions, guided by business rules...

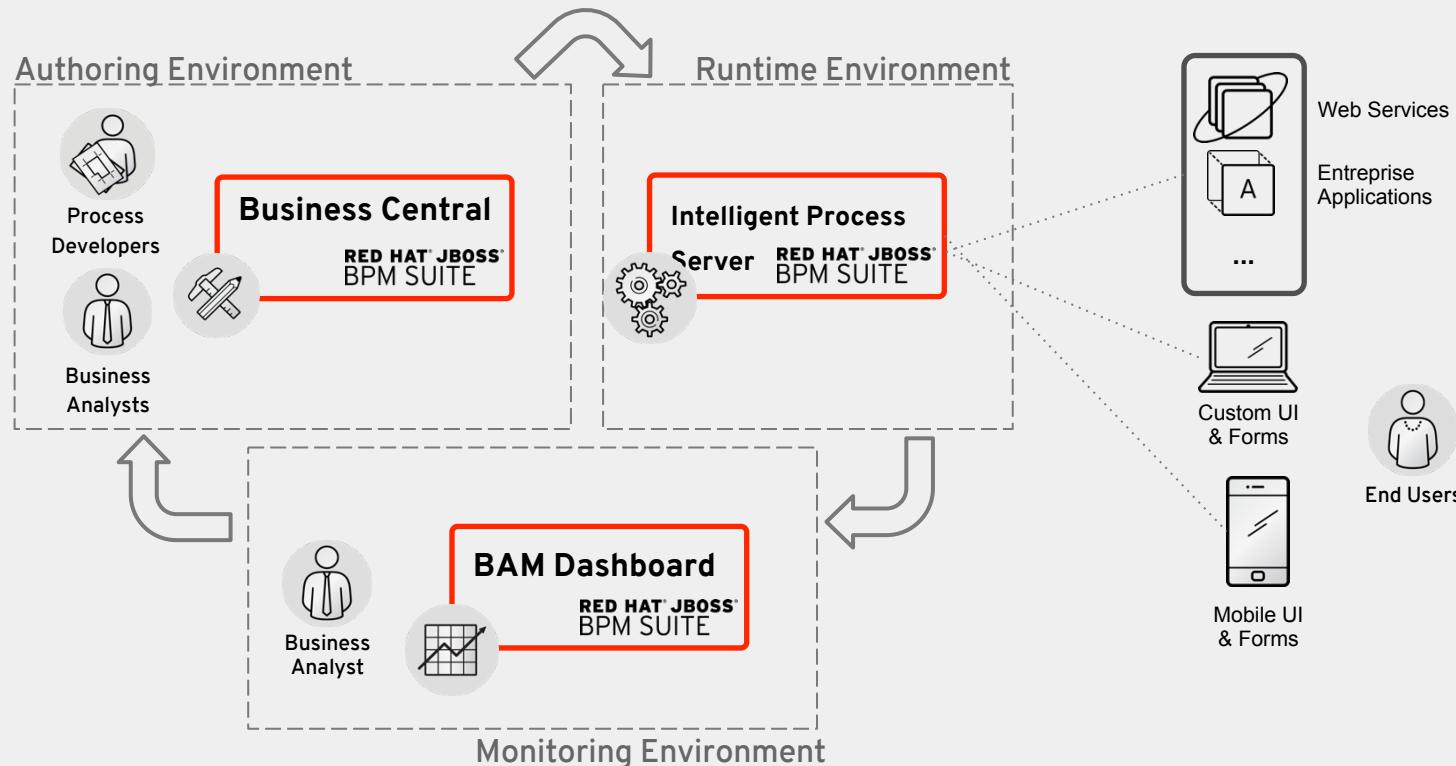


RED HAT JBOSS BPM SUITE

Enables construction of apps that automate a business process - using a model to drive work through the process to completion...



Red Hat JBoss BPMSuite Architecture



PROCESS DRIVEN APP DEVELOPMENT

Supporting role:

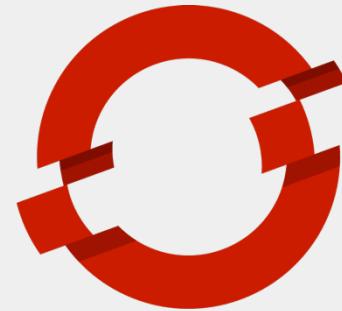
**RED HAT® JBOSS®
FUSE**

**RED HAT® JBOSS®
DATA VIRTUALIZATION**



**RED HAT®
MOBILE**

RED HAT SOLUTIONS ARE DIFFERENT



RED HAT®
OPENSHIFT

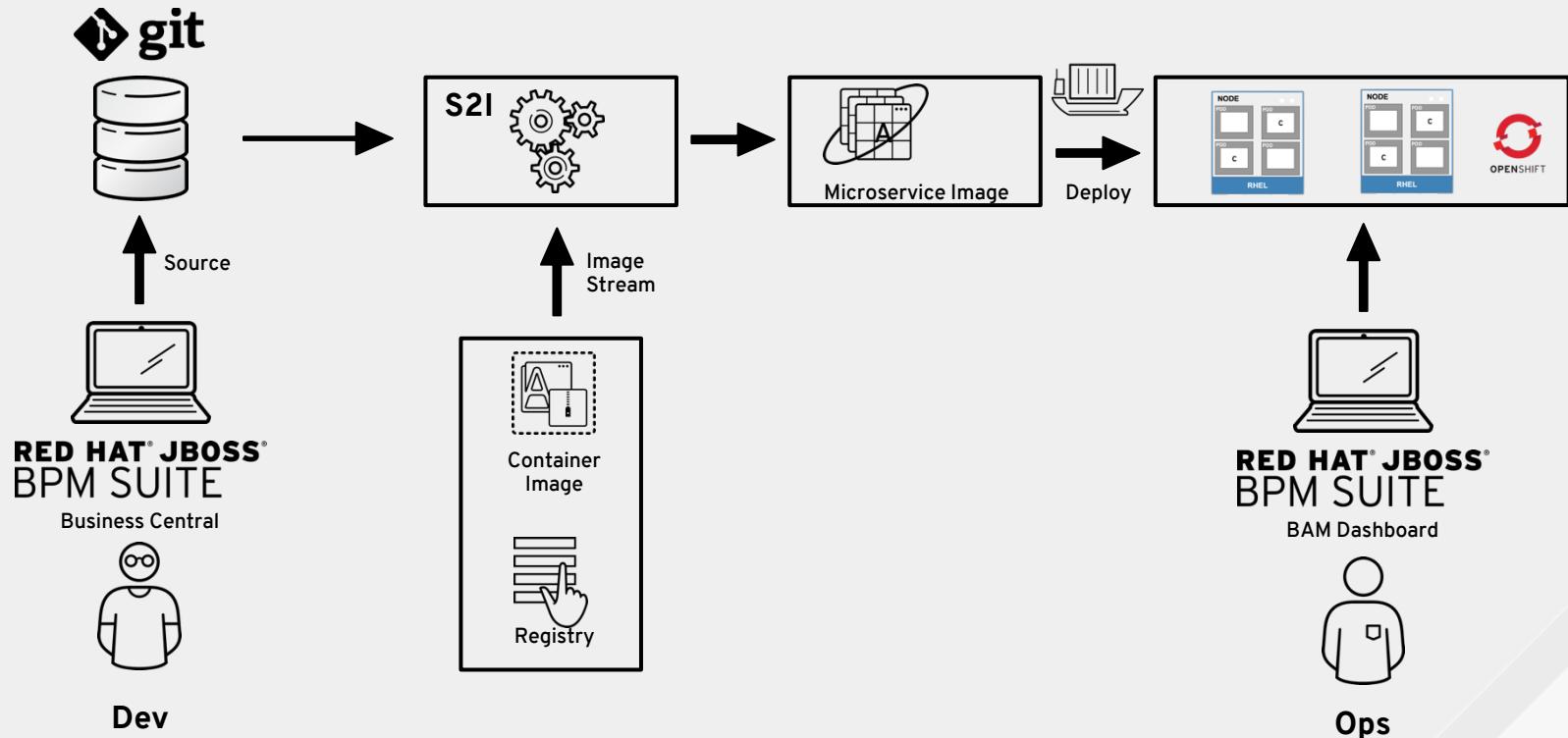
OPENSOURCE DECISION AND PROCESS SERVICES

“When combined with OpenShift, BRMS and BPM Suite enable developers to build, deploy and manage truly modern process-driven applications - fully supporting DevOps practices, microservices architectures and modern user experiences.”

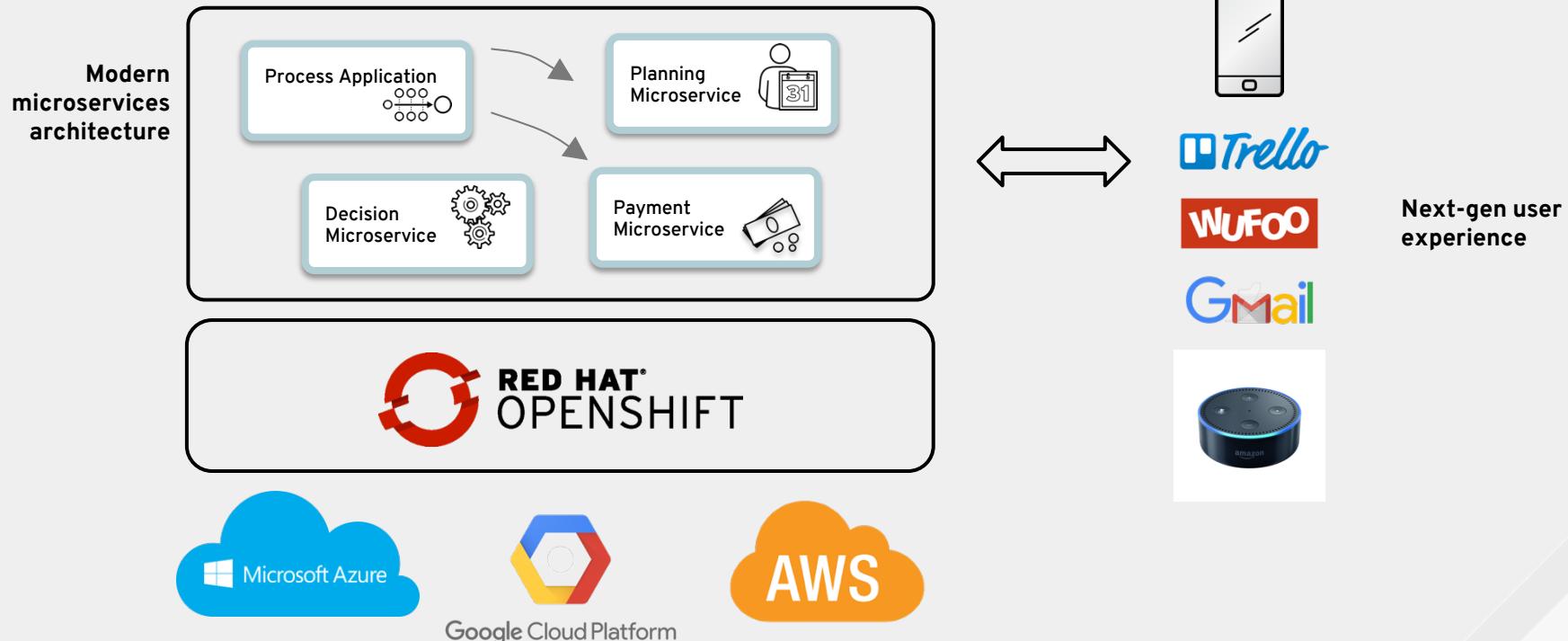


- Phil Simpson, March 29 2017

BUILDING PROCESS-DRIVEN APPS

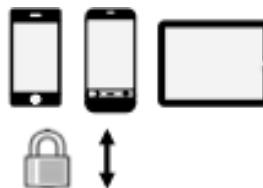


RUNNING PROCESS-DRIVEN APPS WITH OPENSHIFT AND BPM SUITE

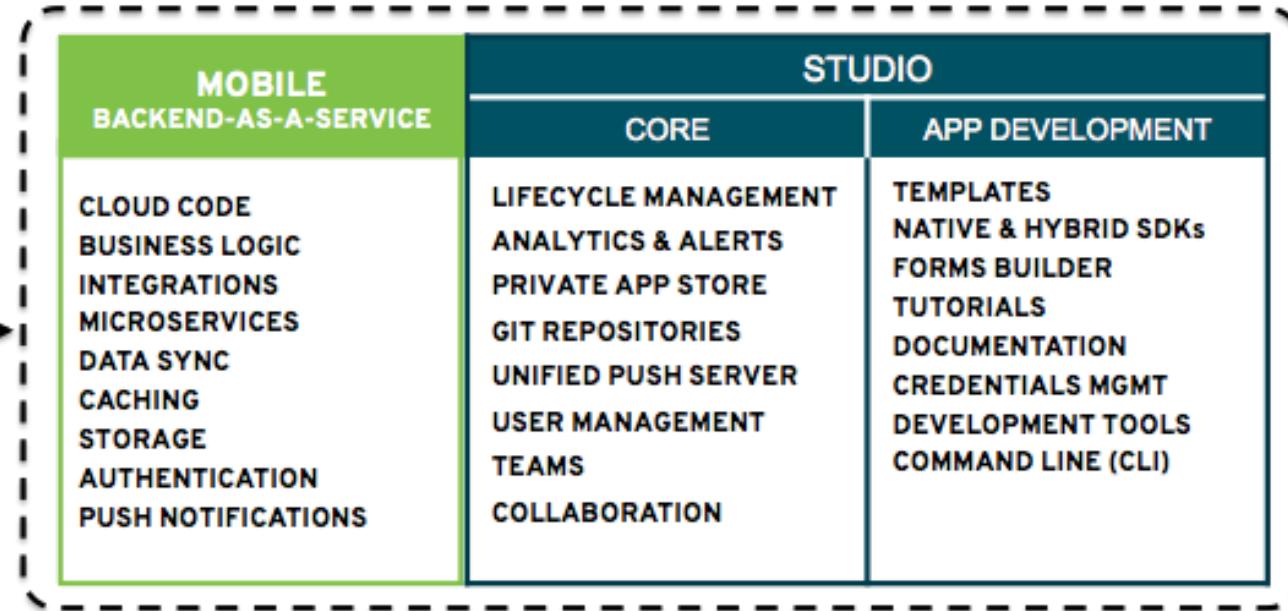
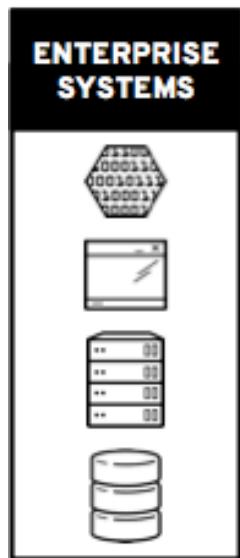


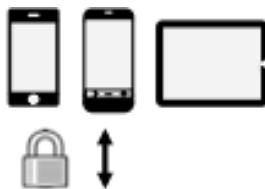
BxMS xPaaS Demo!

Mobile with Red Hat

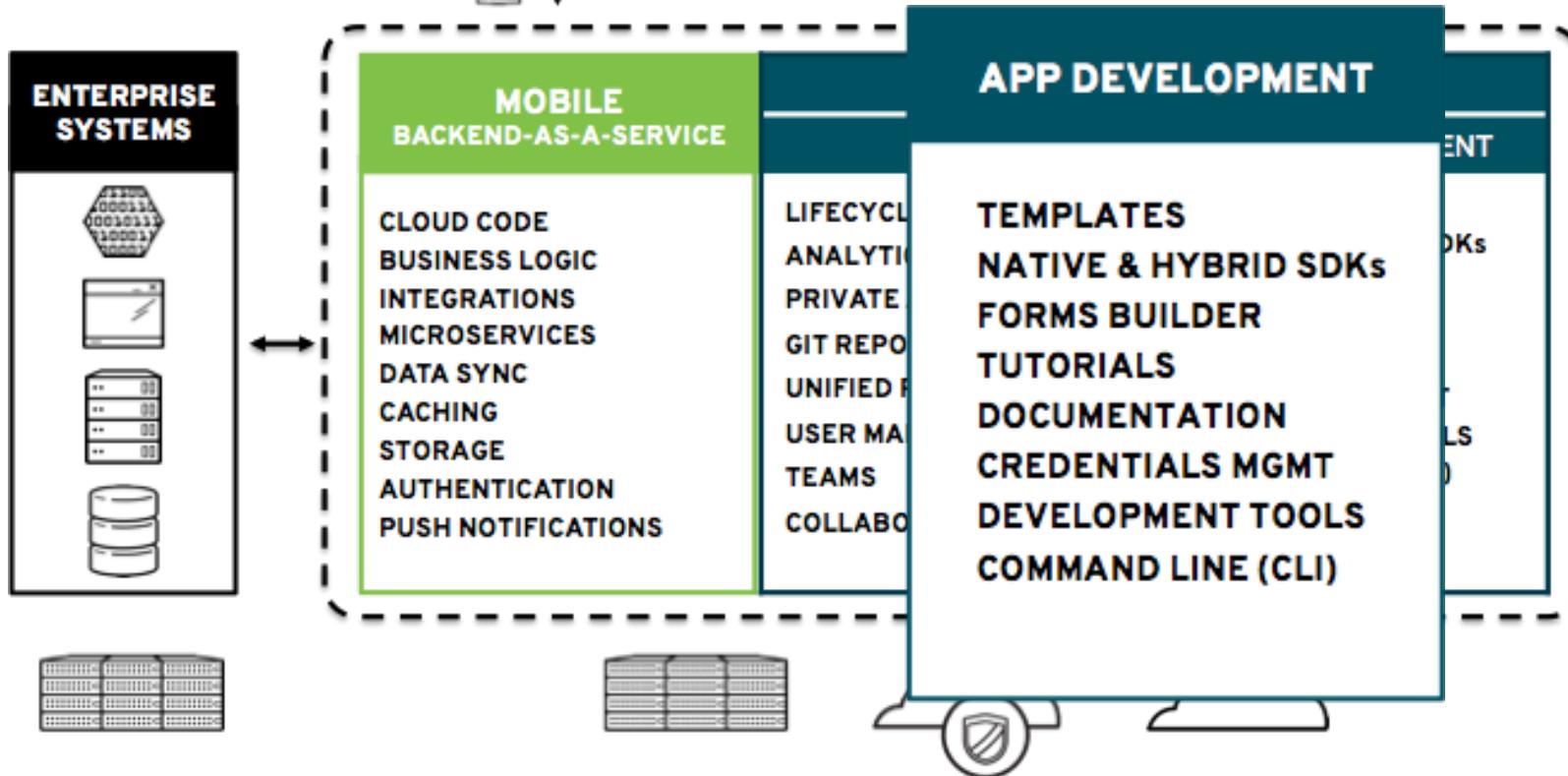


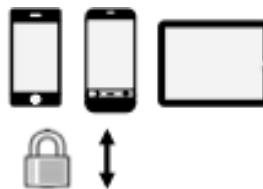
RED HAT® MOBILE APPLICATION PLATFORM



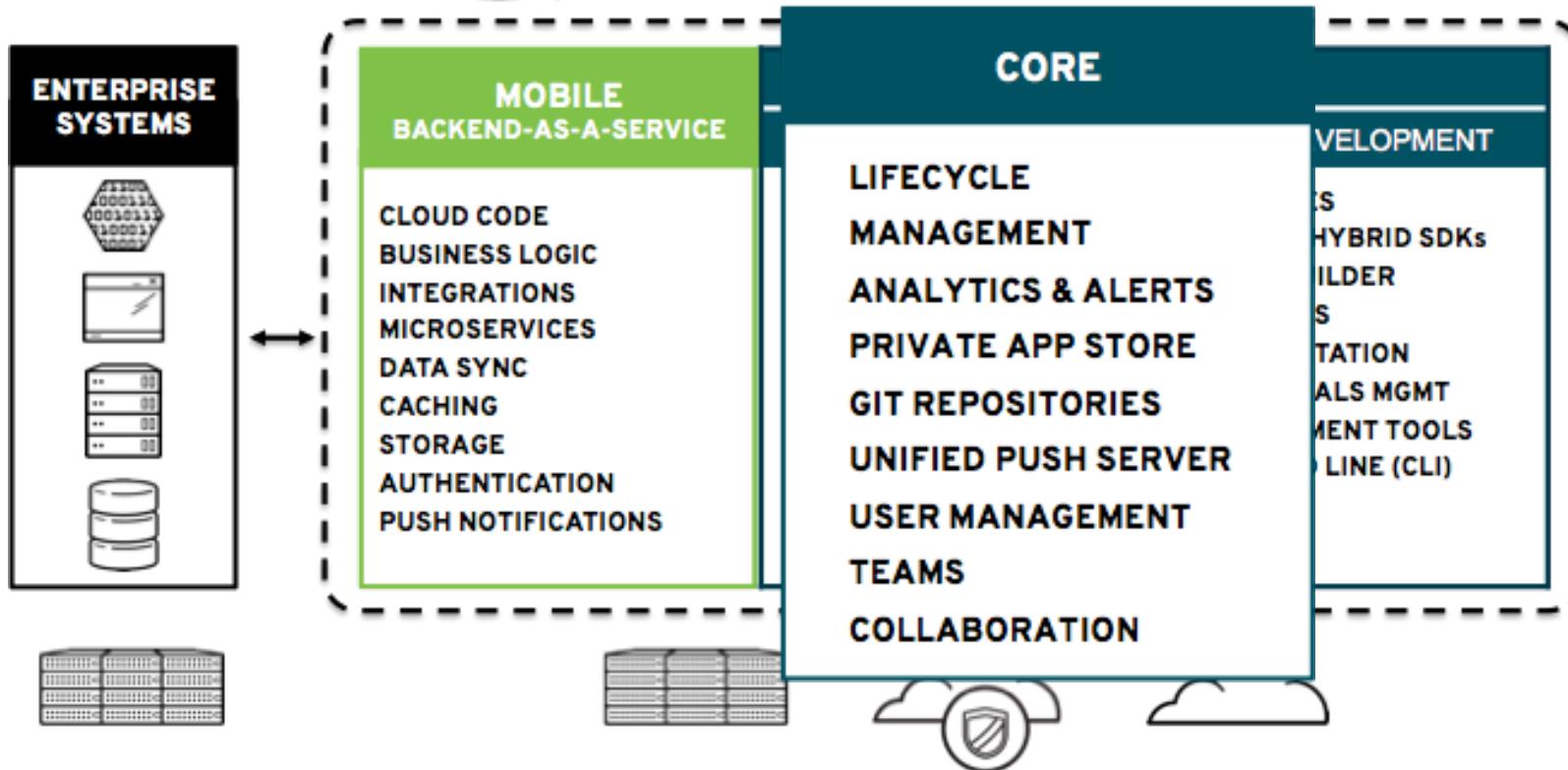


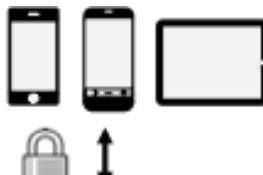
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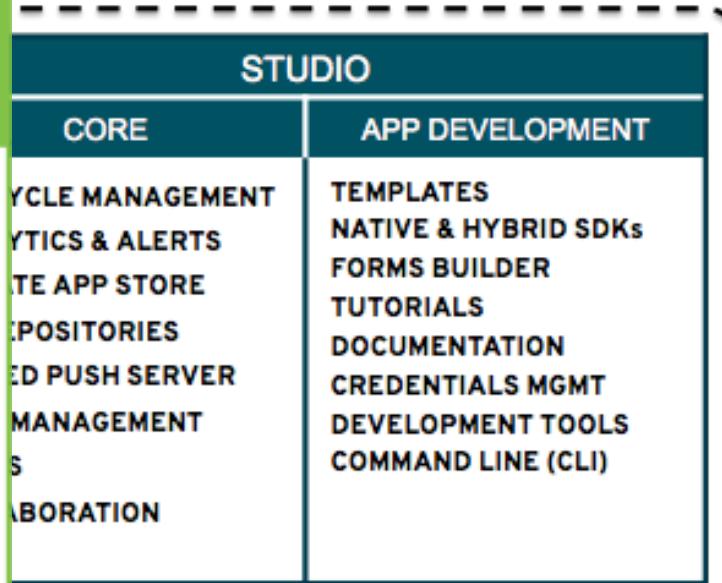
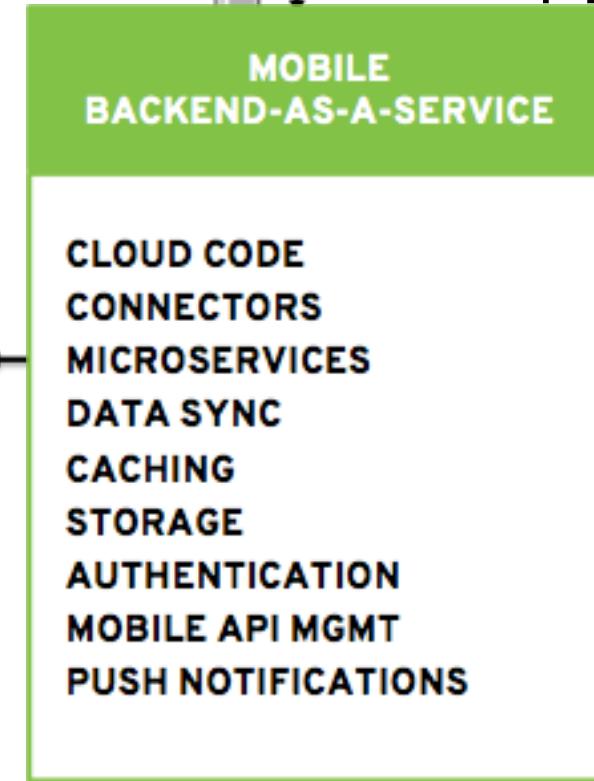
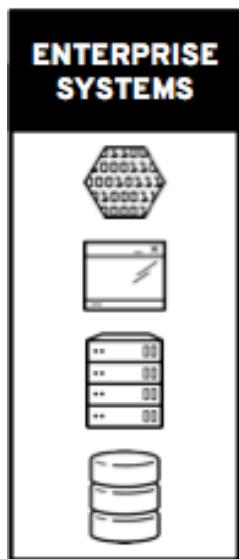


RED HAT® MOBILE APPLICATION PLATFORM



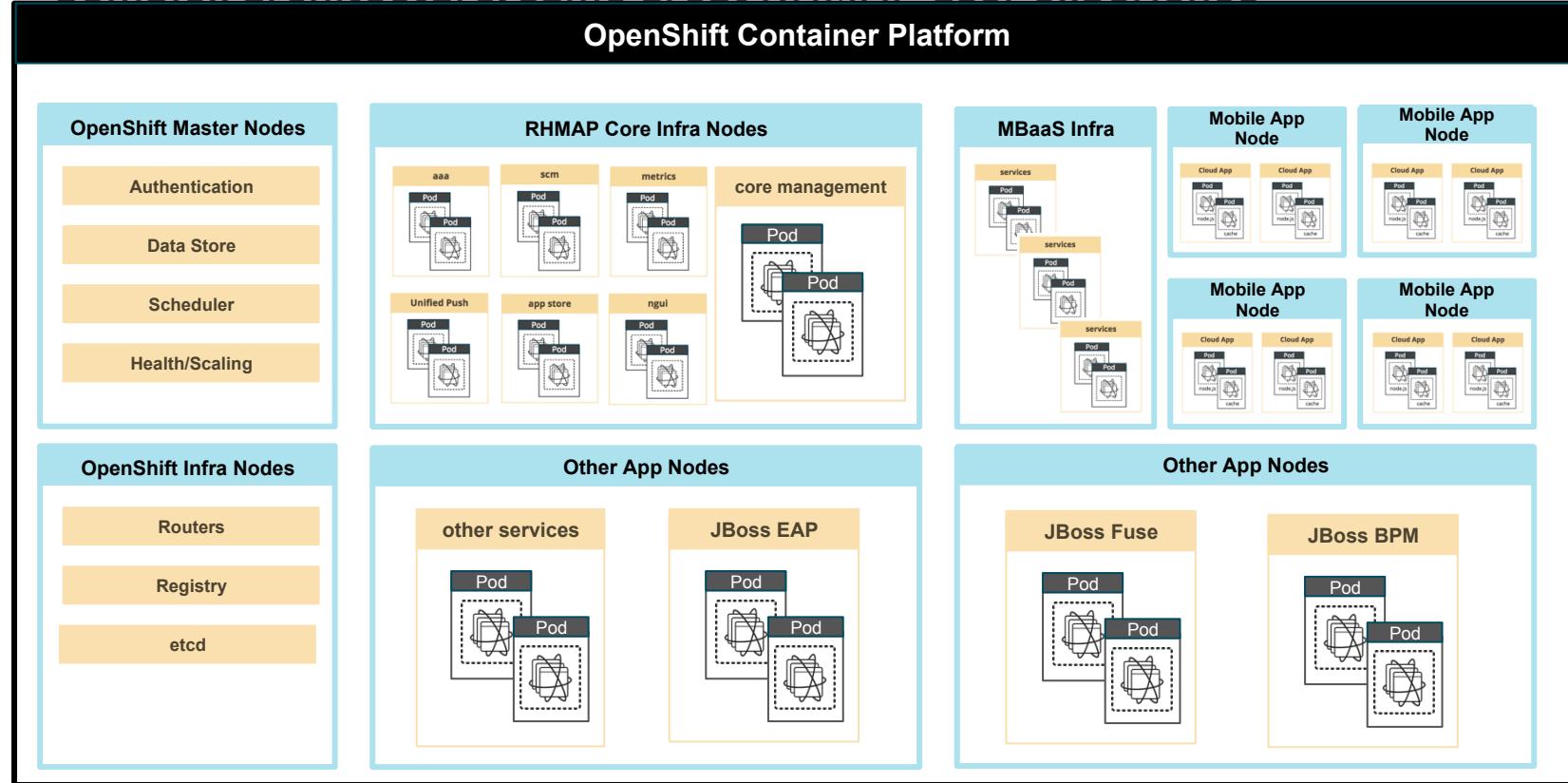


RED HAT® MOBILE APPLICATION PLATFORM

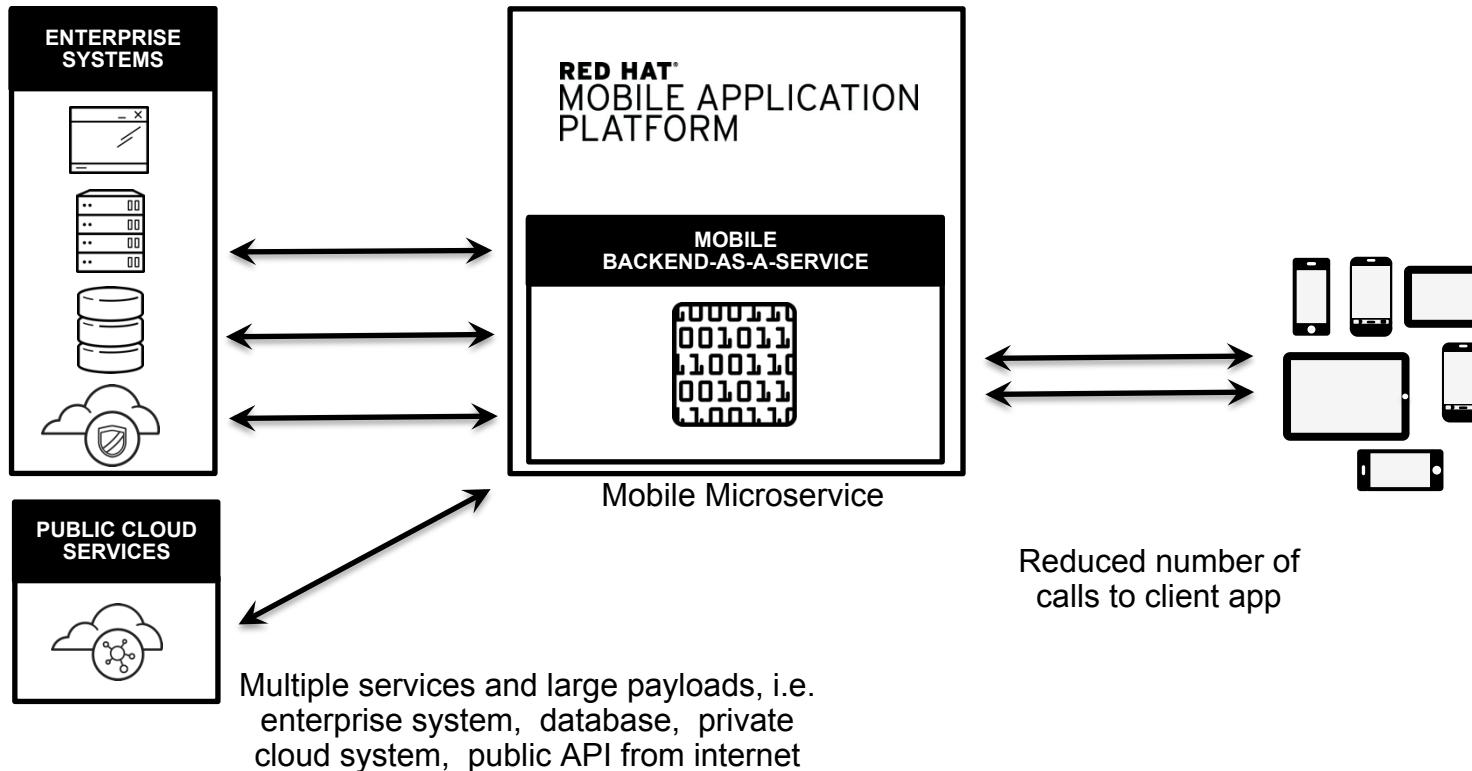


OPENSHIFT VIEW OF RHMAP ARCHITECTURE

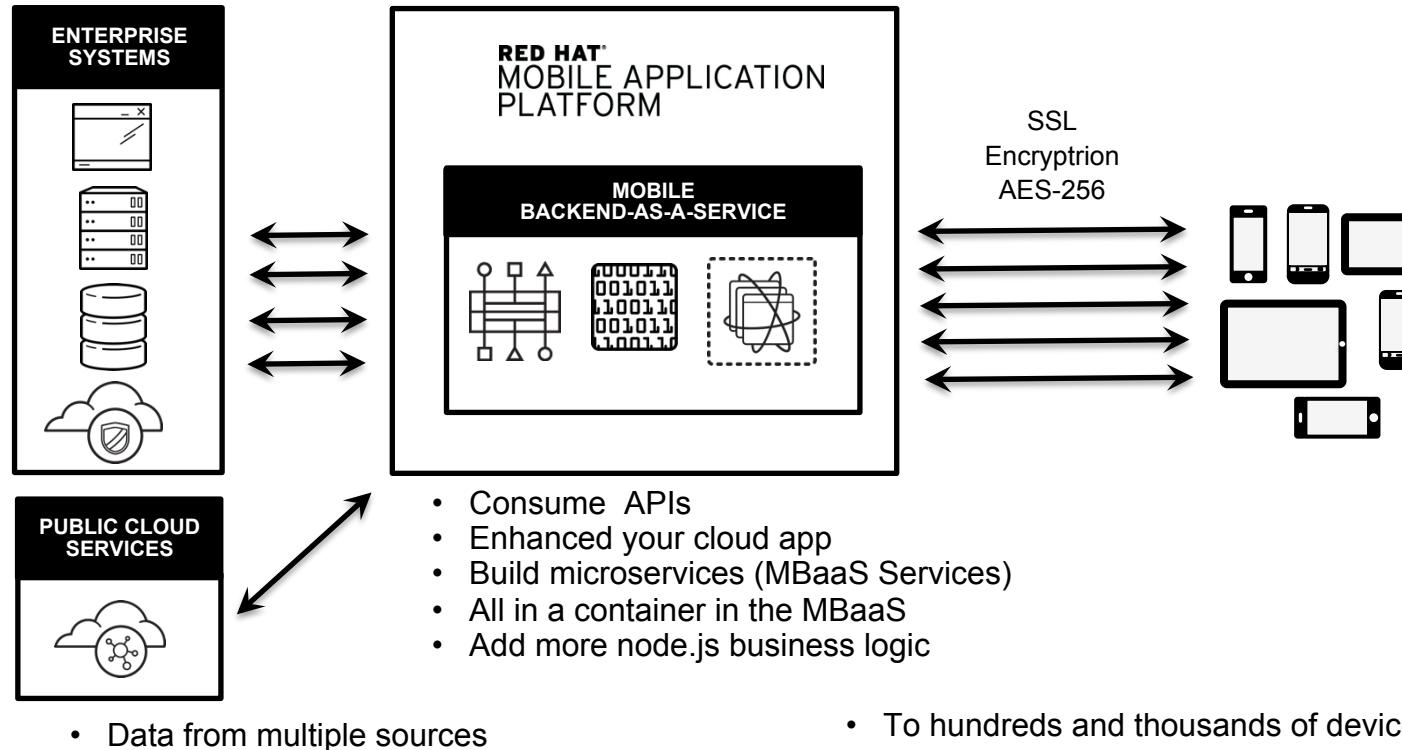
Complex architecture, same great RHMAP user experience



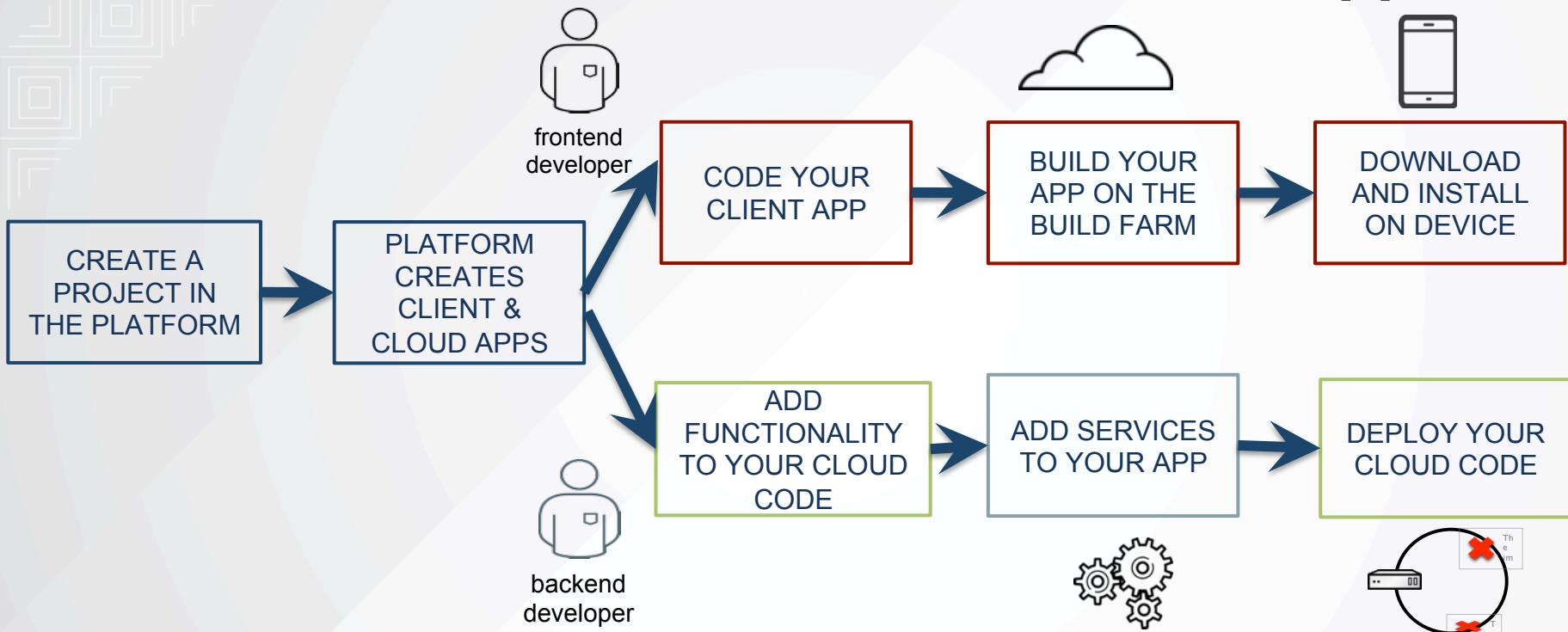
MOBILE APPS AND MICROSERVICES IN RHMAP



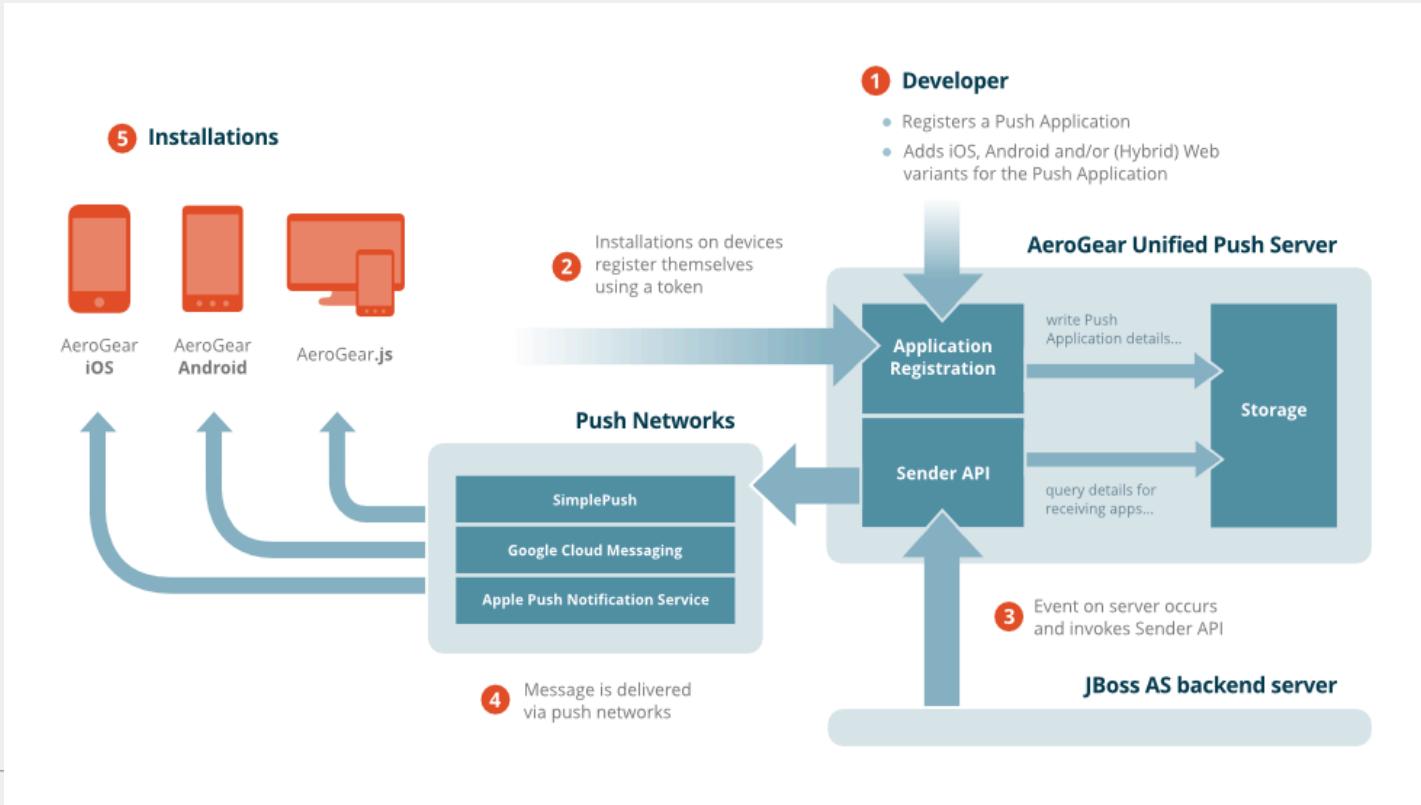
SUMMARY OF MOBILE APPS WITH RHMAP



Full Process Flow to Build a Mobile App



AeroGear Unified Push Server



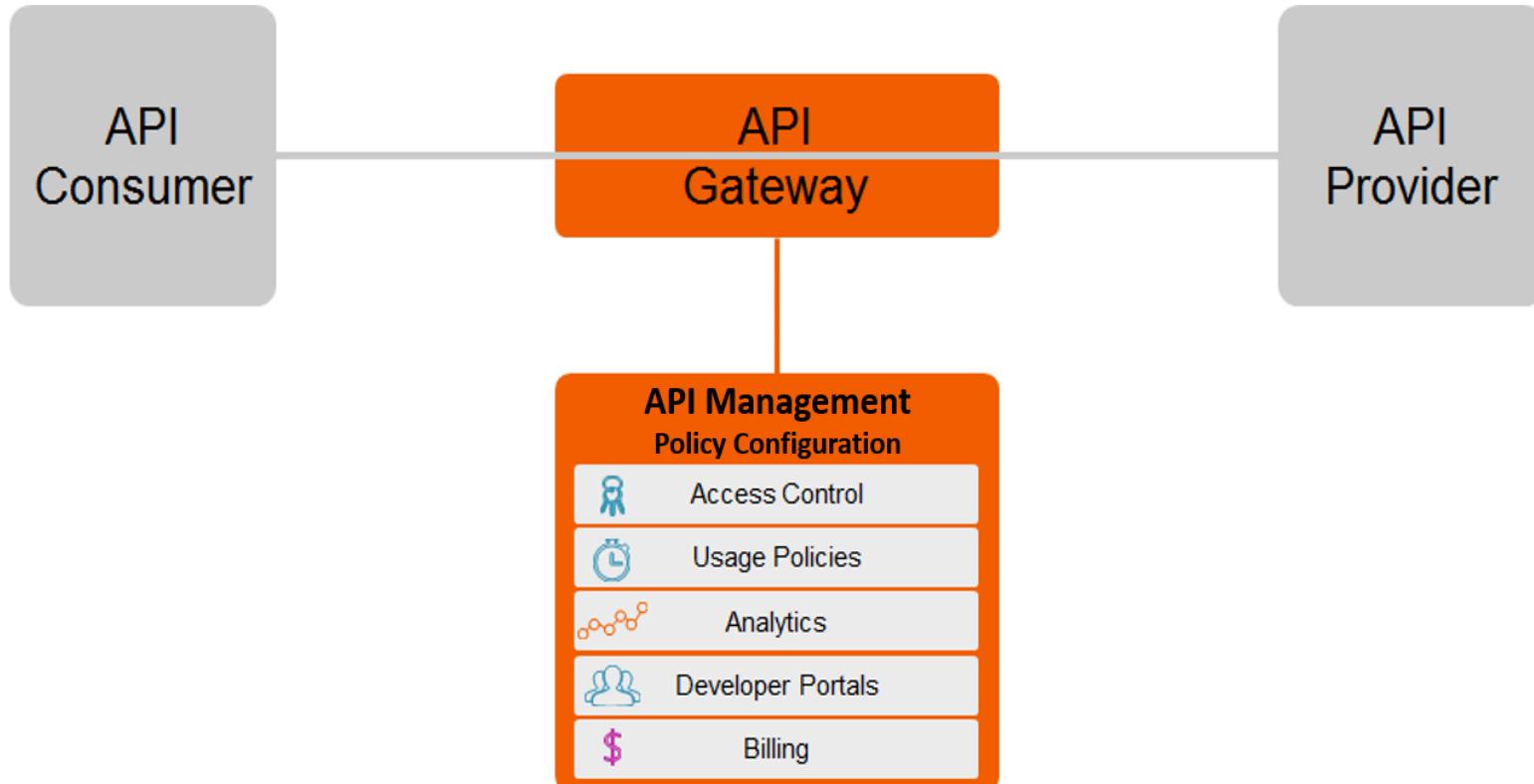
RHMAP Demo!

Red Hat 3scale API Management Platform (RHAMP)

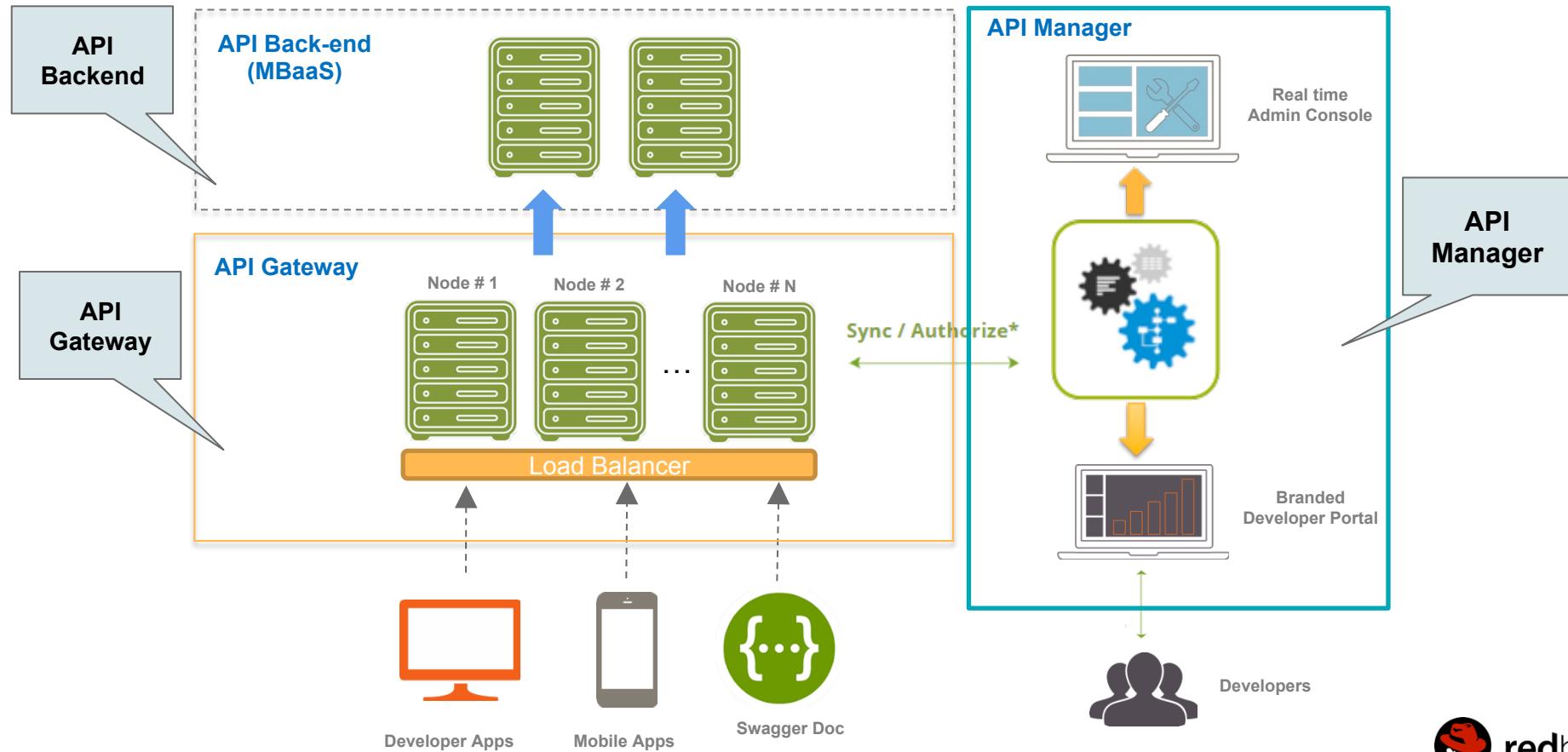
Red Hat 3Scale API Management Approach

- Modular & Open-Source API Gateway (Nginx)
- Flexible API Security Integration (API Key, OAuth, SSO)
- Hybrid Architecture, Multiple Deployment Options
(Cloud, Hybrid & On-premises)
- Highly Scalable, Flexible Infrastructure
(Standard HW, VM, Container)
- High-Availability, Redundancy

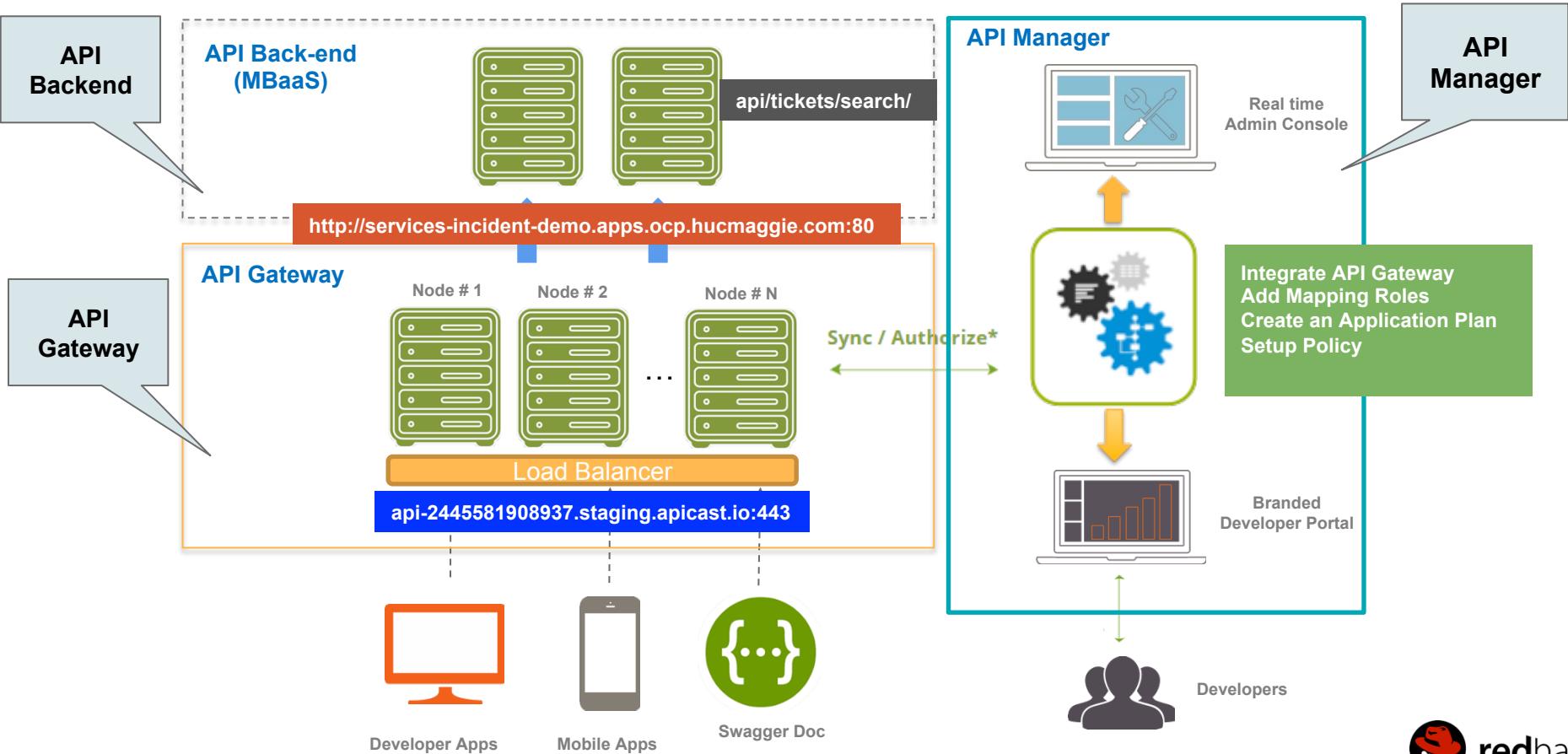
Red Hat 3Scale API Management Model



Red Hat 3Scale Architecture



Red Hat 3Scale Deployment Process



3Scale DEMO!

Past Summit Reference

Check out what we did in the past Red Hat Summit sessions:

- <http://maggiechu-jboss.blogspot.com/2016/09/red-hat-summit-2016-going-mobile-with-bpms.html>

QUESTIONS?

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