



MOBILIZING AND SECURING RED HAT JBoss BPM SUITE & BRMS

Maggie Hu - Sr. Middleware Specialist Solution Architect, Red Hat

Ken Spokas - Technical Director, Vizuri

Yossi Koren - Sr. Solution Architect, Middleware & API Management, Red Hat

May 4, 2017

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

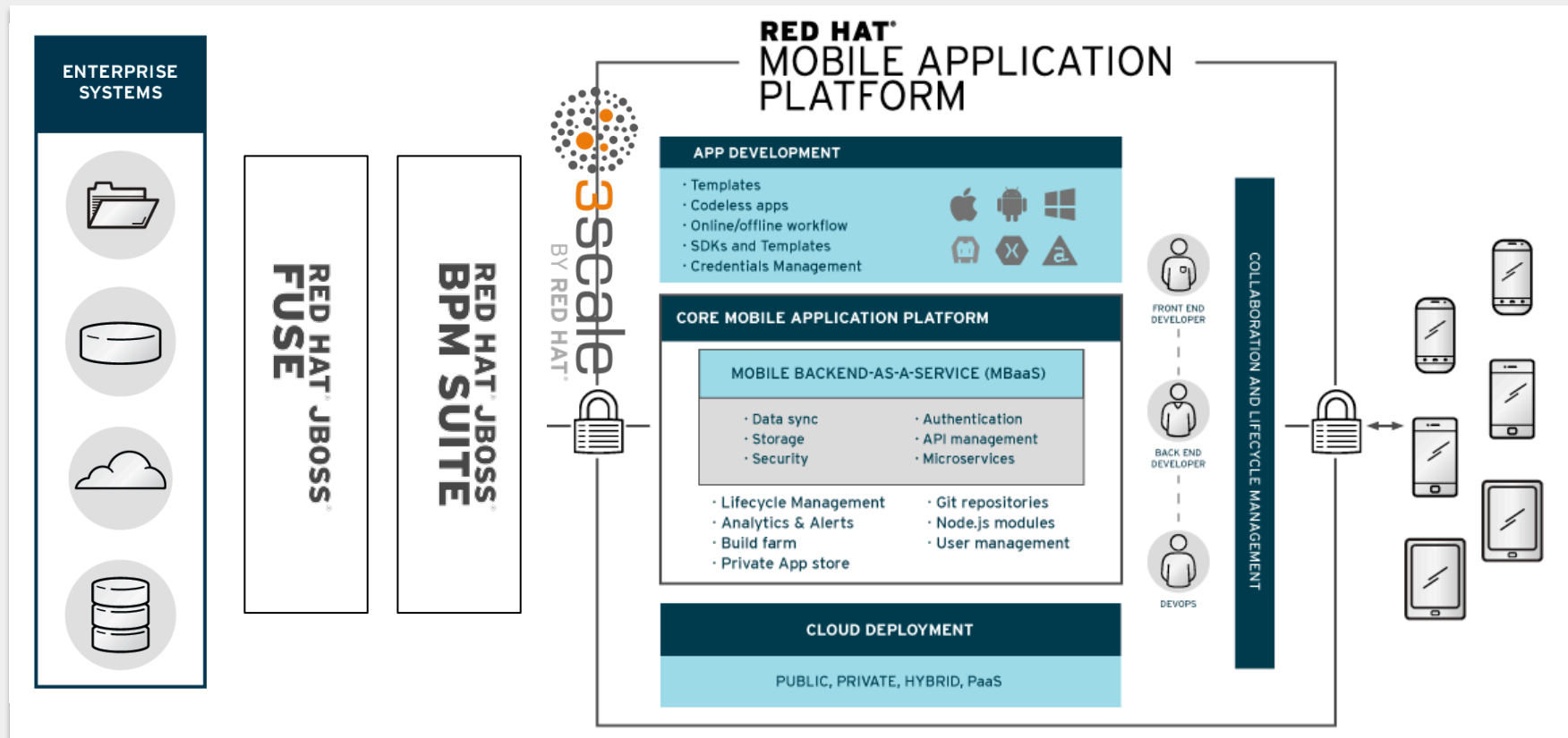
Microservices
DevOps
Containers



Process-Driven Apps

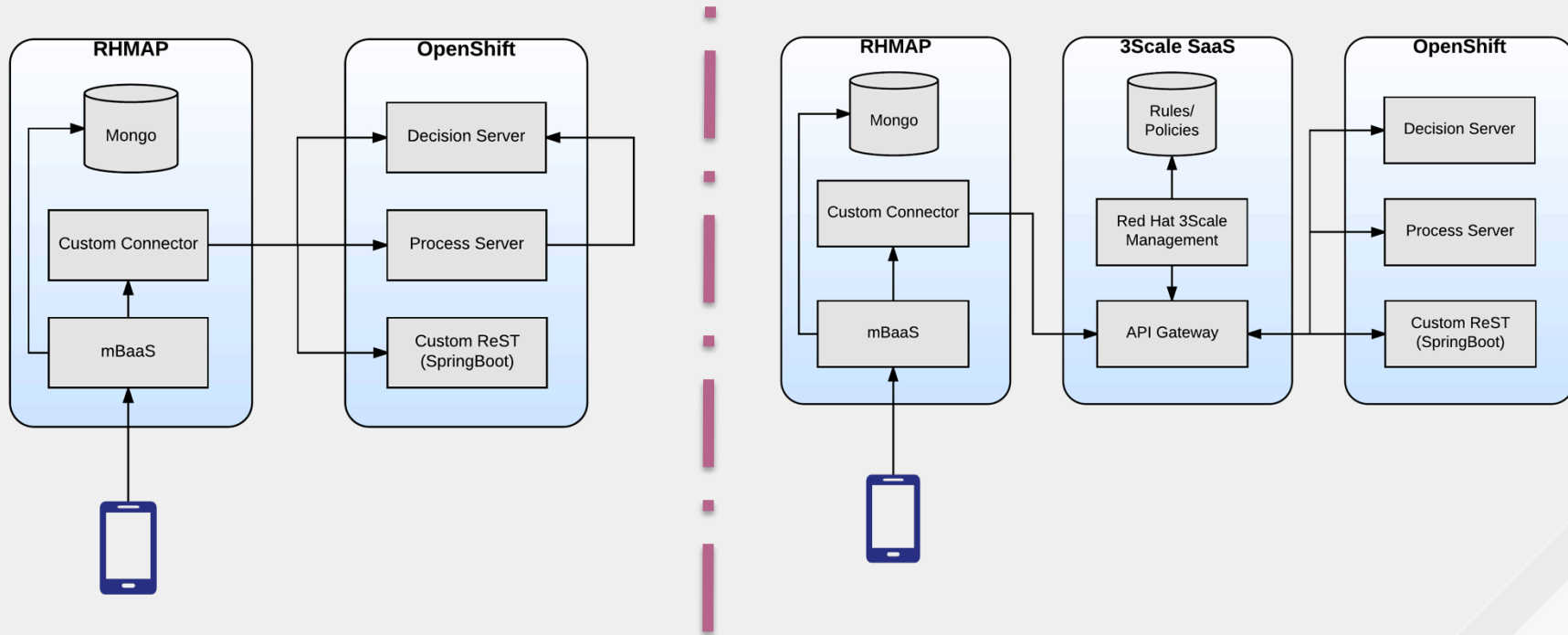
BPM, rules, optimization, mobile

RHMAP - 3Scale - RH JBoss



DEMO ARCHITECTURE

Before and After Red Hat 3Scale API Management

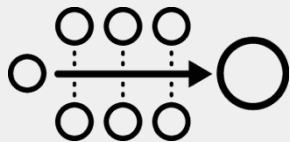


DEMO!

PROCESS DRIVEN APPS

PROCESS-DRIVEN APPS

Main Characteristics



Orchestrate

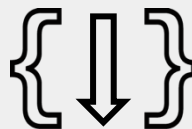
Between systems of engagement and
systems of record

Collaboration between knowledge
workers.



Automate

Manual Tasks
& Decisions

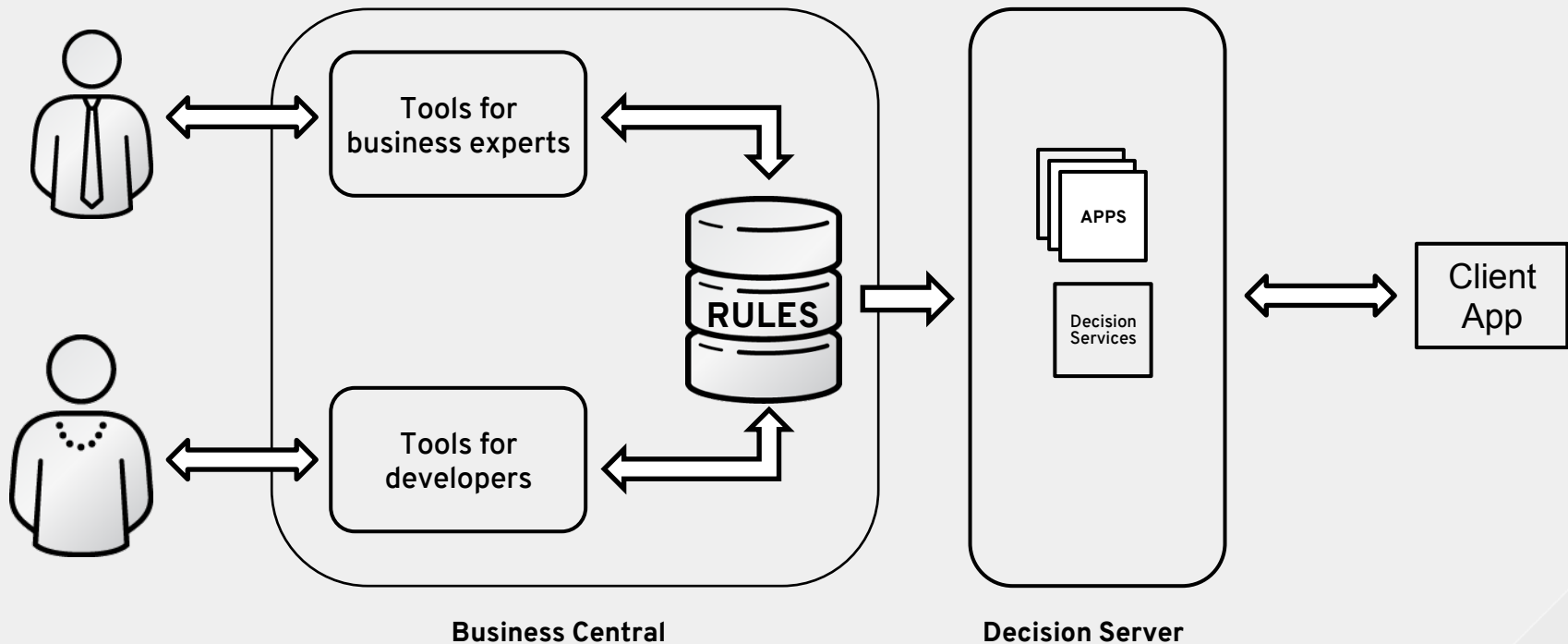


Enable

Business users to participate
in application development

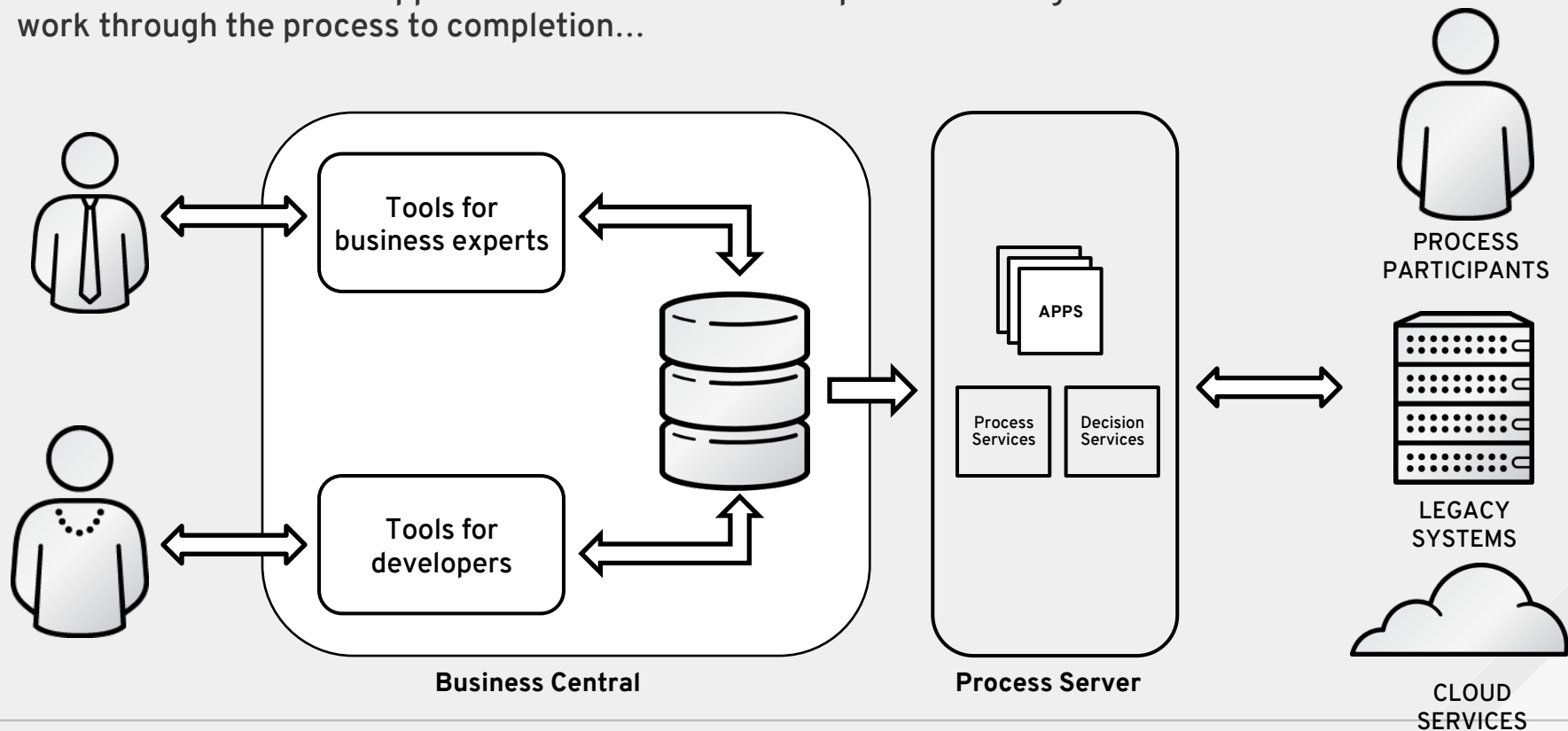
RED HAT JBOSS BRMS

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

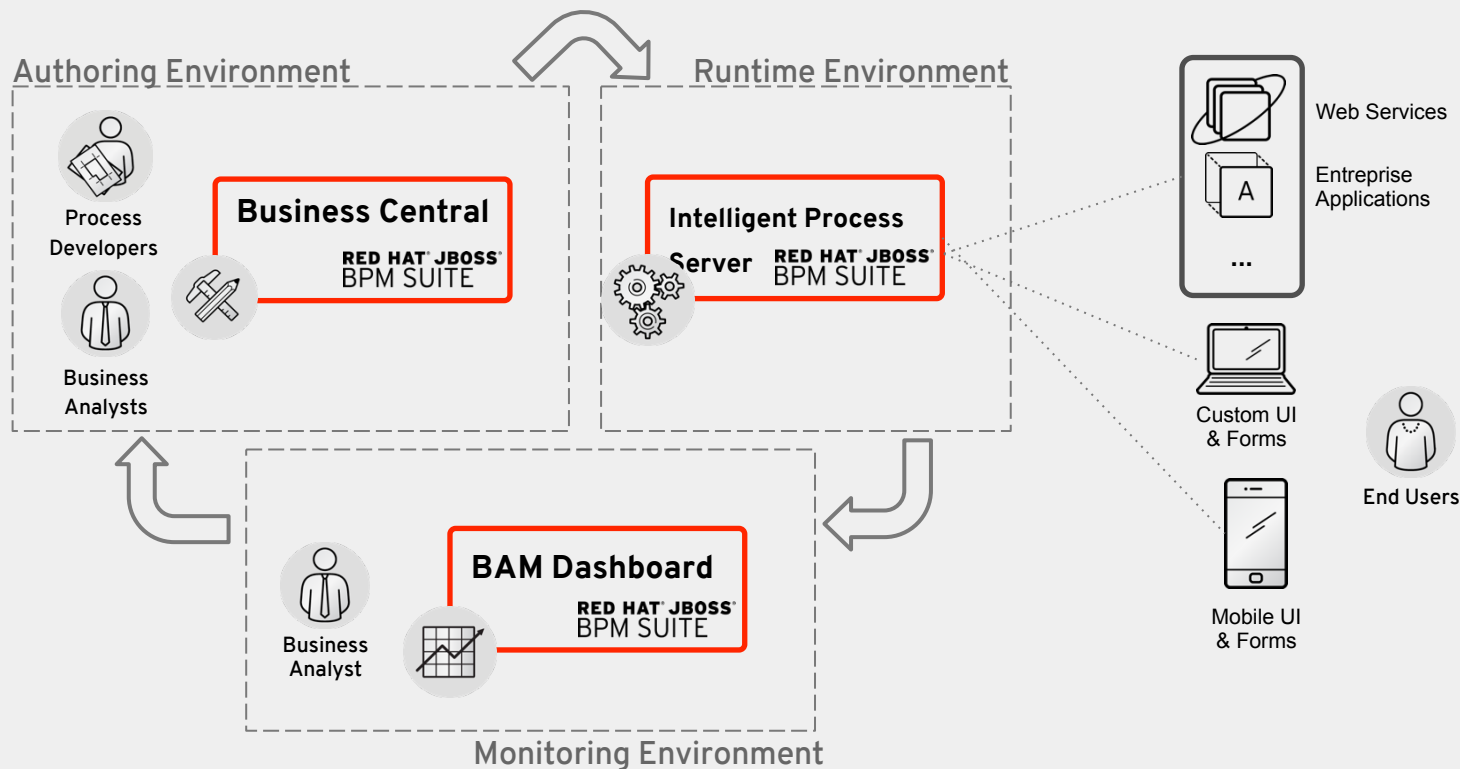


RED HAT JBOSS BPM SUITE

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



Red Hat JBoss BPM Suite Architecture



PROCESS DRIVEN APP DEVELOPMENT

Supporting role:

RED HAT® JBOSS®
FUSE

RED HAT® JBOSS®
DATA VIRTUALIZATION



RED HAT®
MOBILE

RED HAT SOLUTIONS ARE DIFFERENT

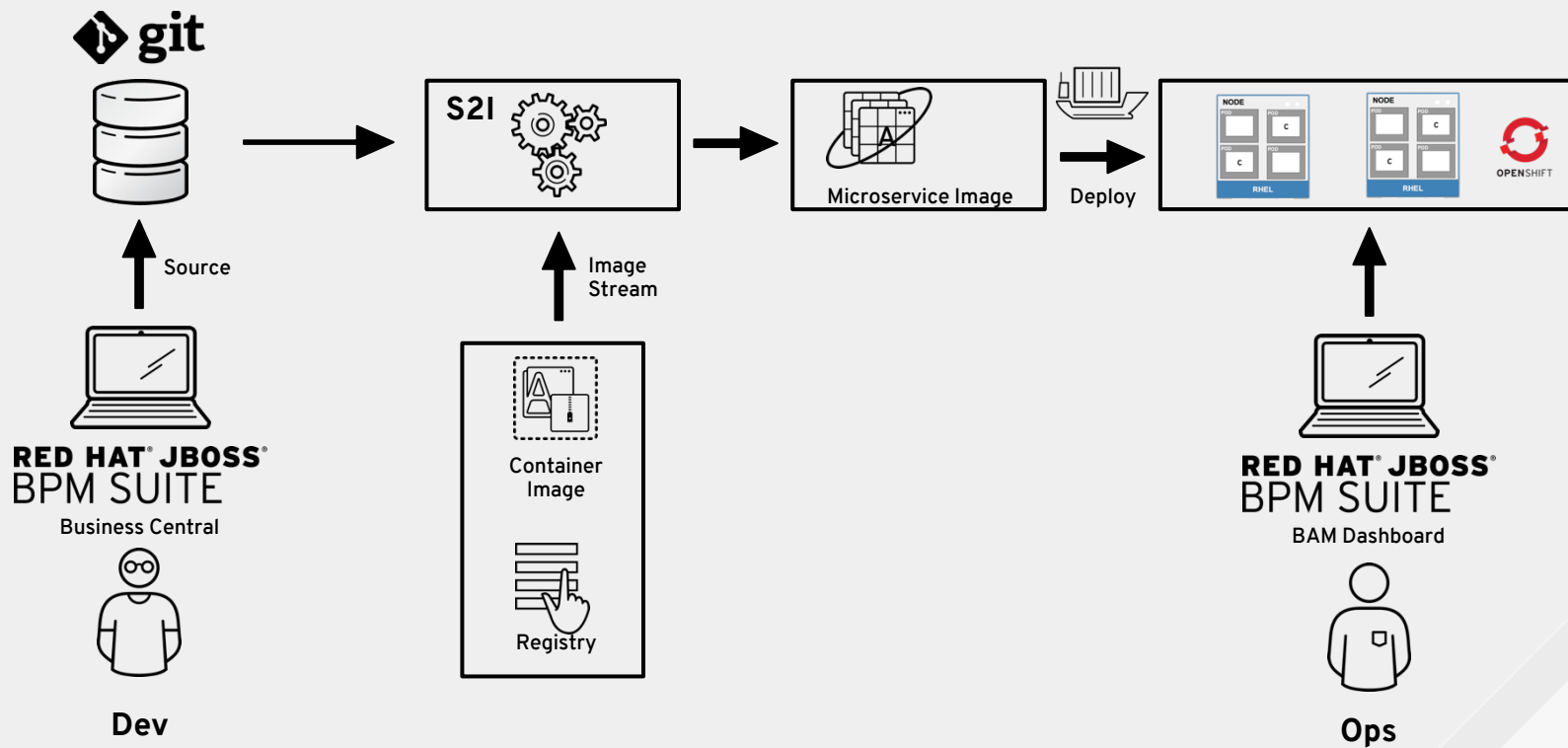


OPENSIFT DECISION AND PROCESS SERVICES

“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.”

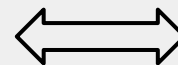
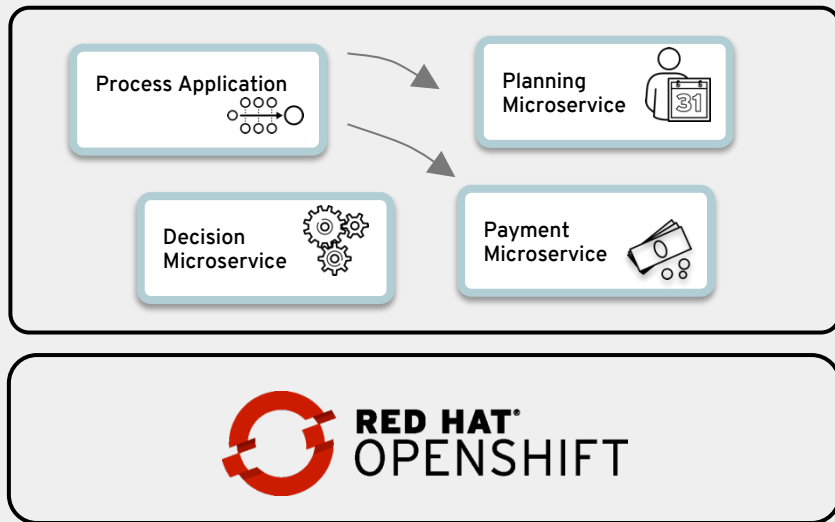
- Phil Simpson, March 29 2017

BUILDING PROCESS-DRIVEN APPS



RUNNING PROCESS-DRIVEN APPS WITH OPENSIFT AND BPM SUITE

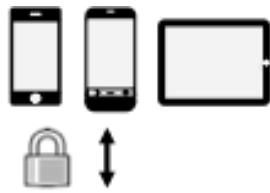
Modern
microservices
architecture



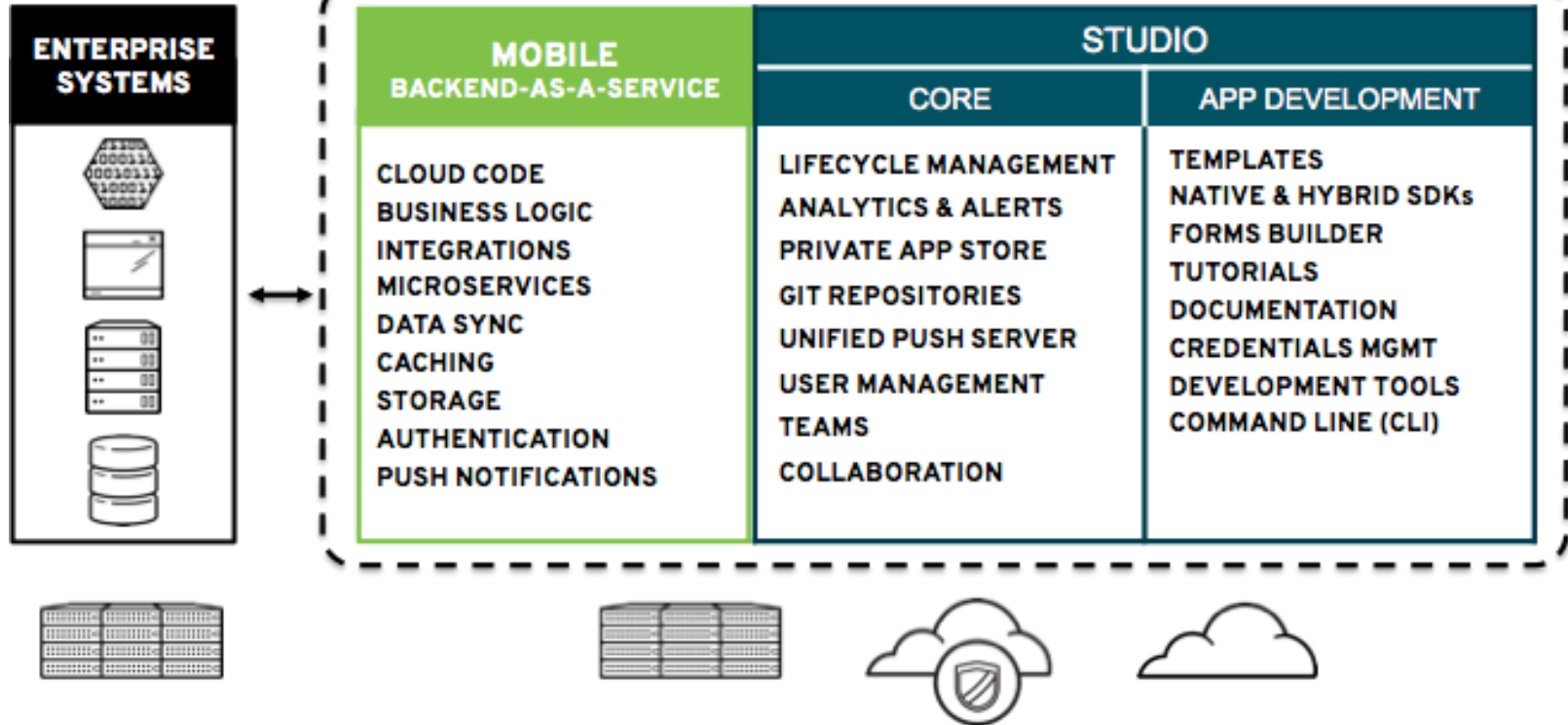
Next-gen user
experience

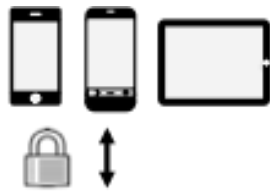
BxMS xPaaS Demo!

Mobile with Red Hat

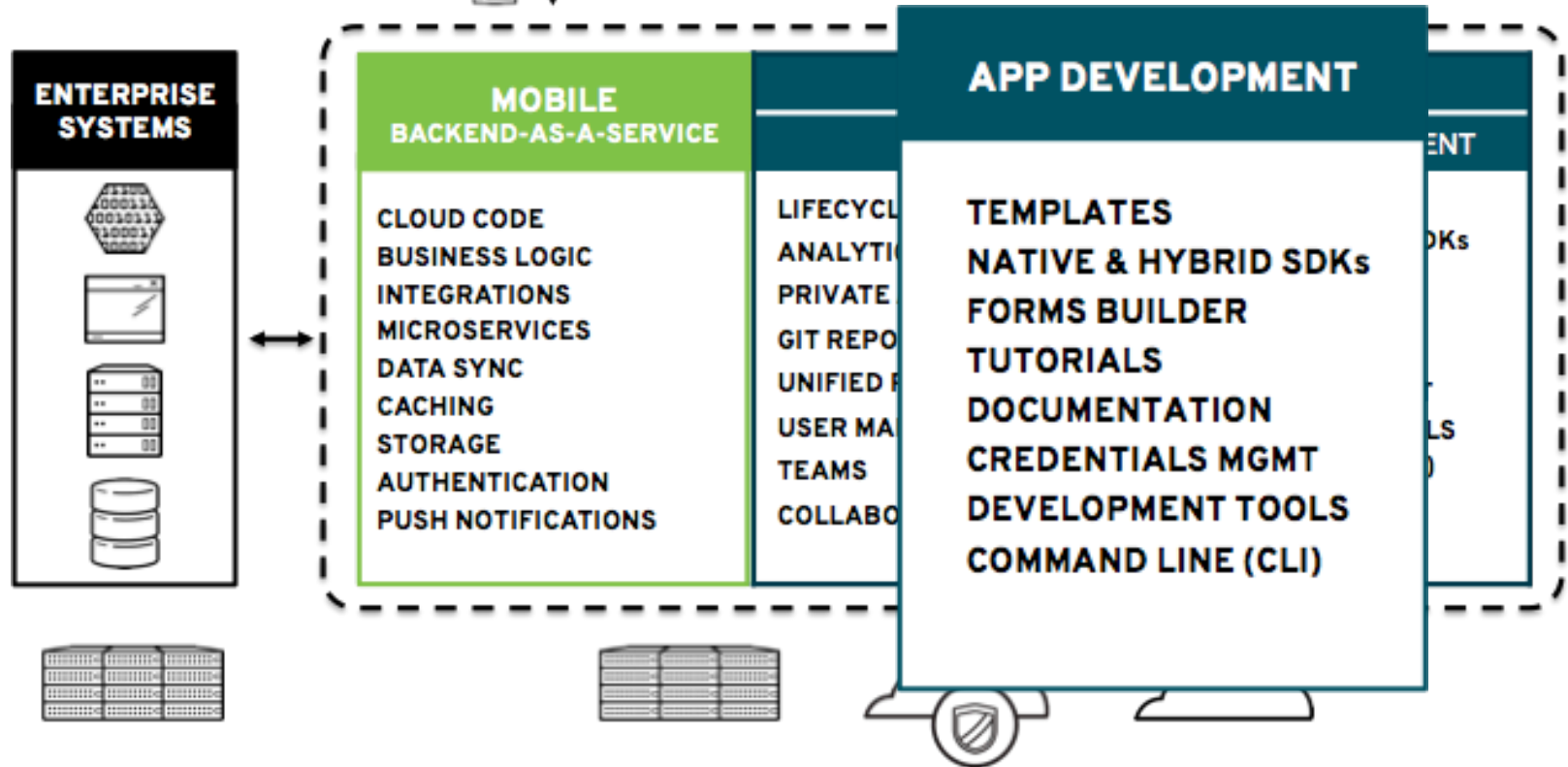


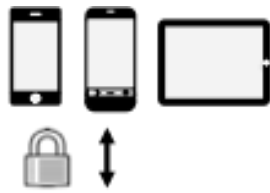
RED HAT® MOBILE APPLICATION PLATFORM



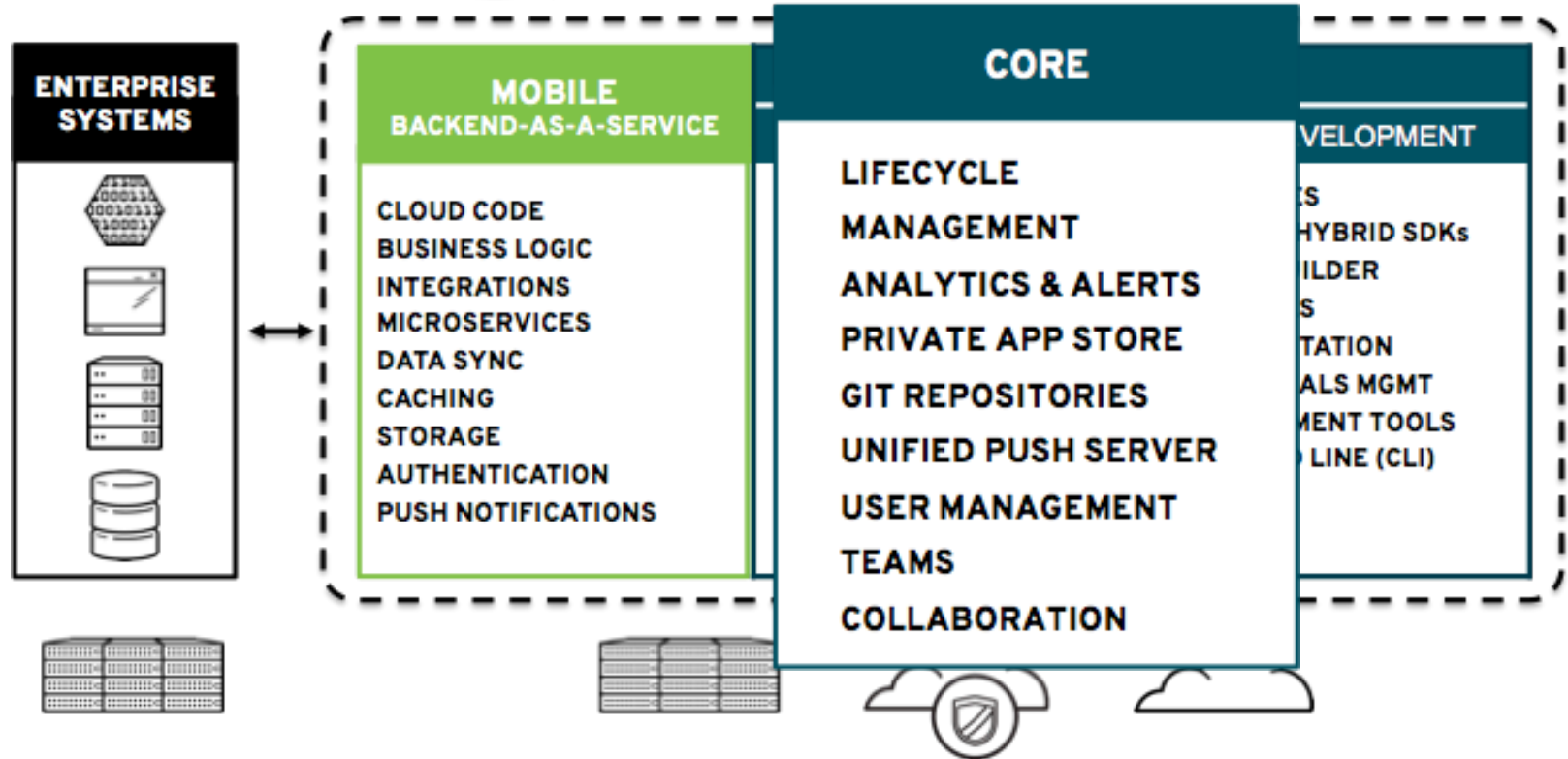


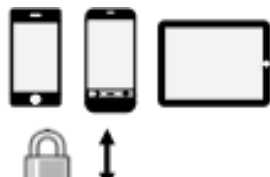
RED HAT® MOBILE APPLICATION PLATFORM



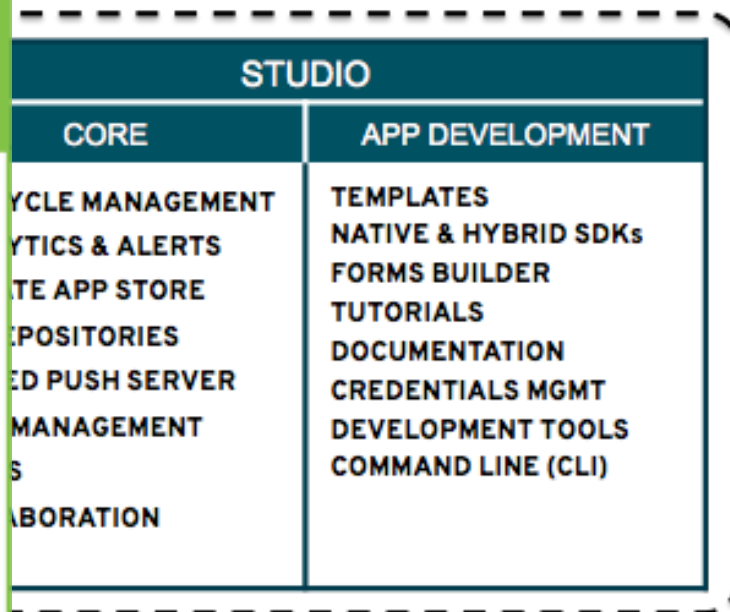
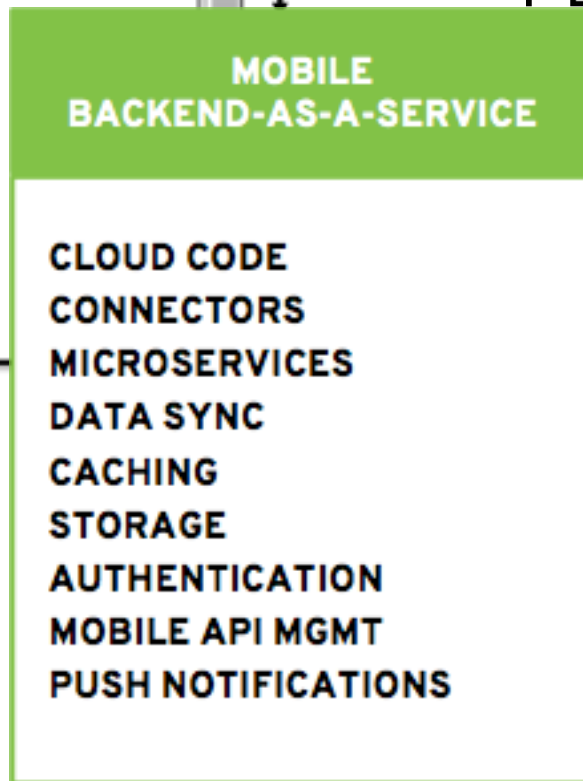
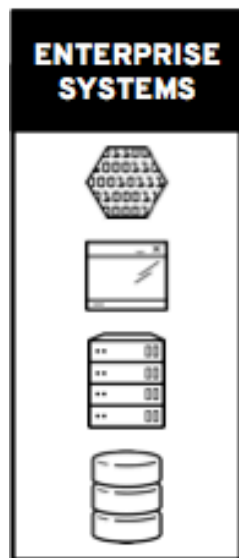


RED HAT® MOBILE APPLICATION PLATFORM





RED HAT® MOBILE APPLICATION PLATFORM



OPENSIFT VIEW OF RHMAP ARCHITECTURE

Complex architecture, same great RHMAP user experience

OpenShift Container Platform

OpenShift Master Nodes

Authentication

Data Store

Scheduler

Health/Scaling

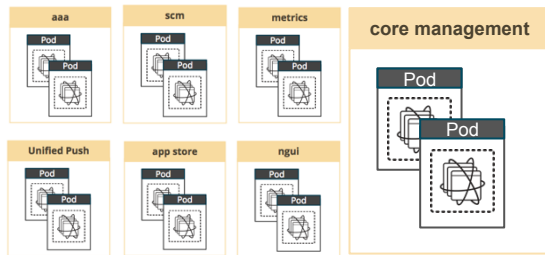
OpenShift Infra Nodes

Routers

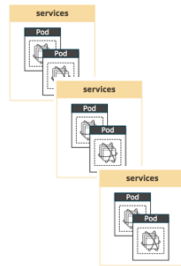
Registry

etcd

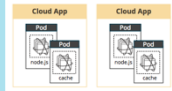
RHMAP Core Infra Nodes



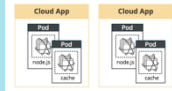
MBaaS Infra



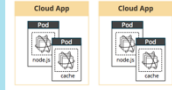
Mobile App Node



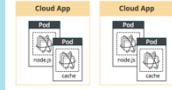
Mobile App Node



Mobile App Node

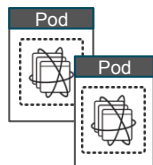


Mobile App Node

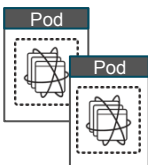


Other App Nodes

other services

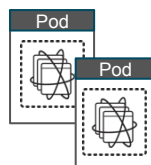


JBoss EAP

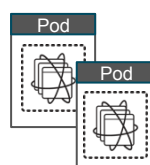


Other App Nodes

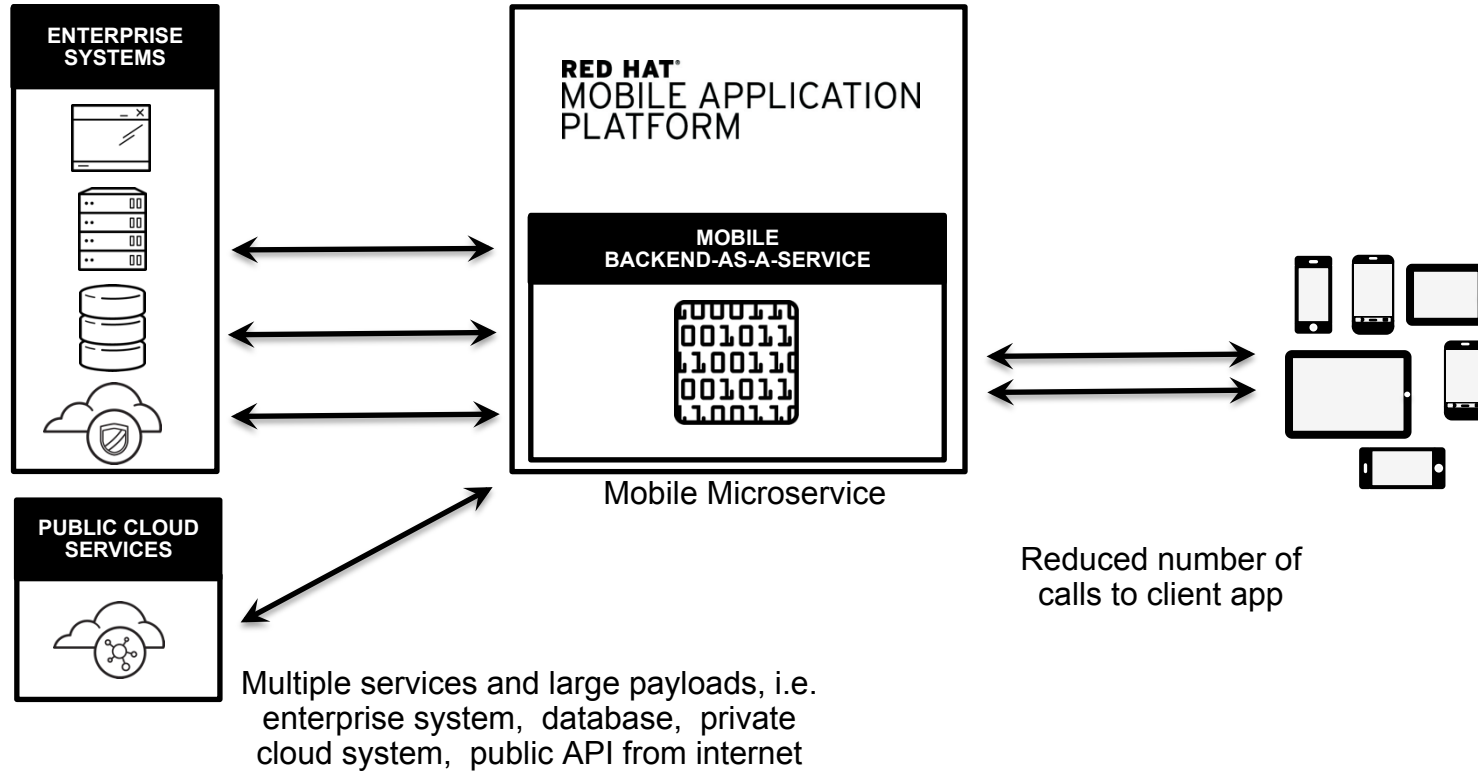
JBoss Fuse



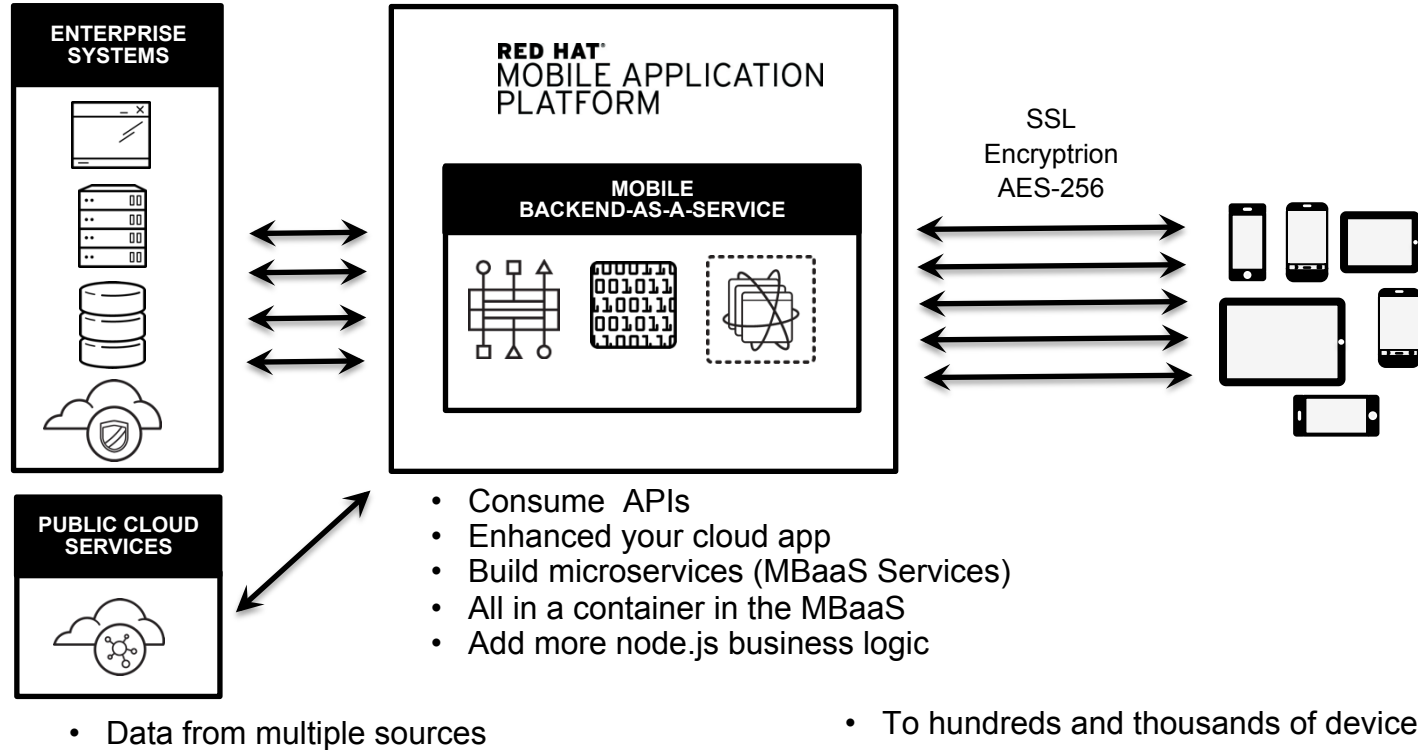
JBoss BPM



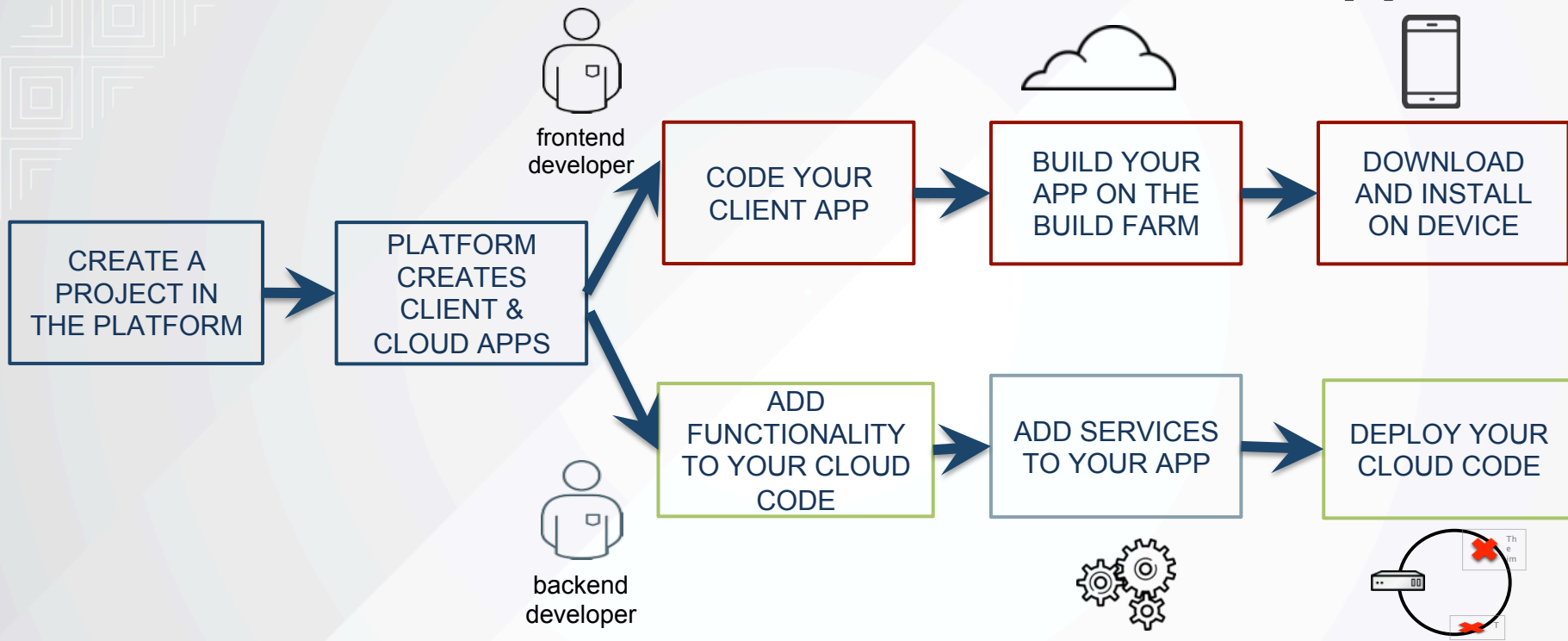
MOBILE APPS AND MICROSERVICES IN RHMAP



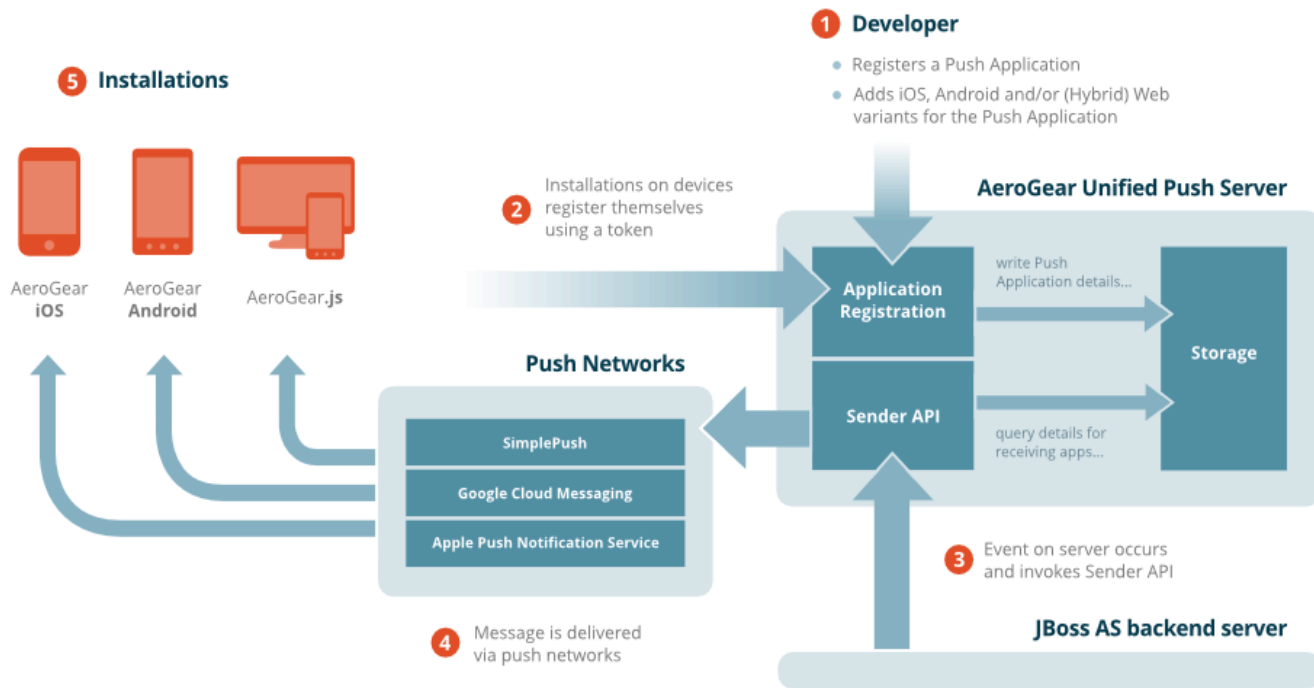
SUMMARY OF MOBILE APPS WITH RHMAP



Full Process Flow to Build a Mobile App



AeroGear Unified Push Server



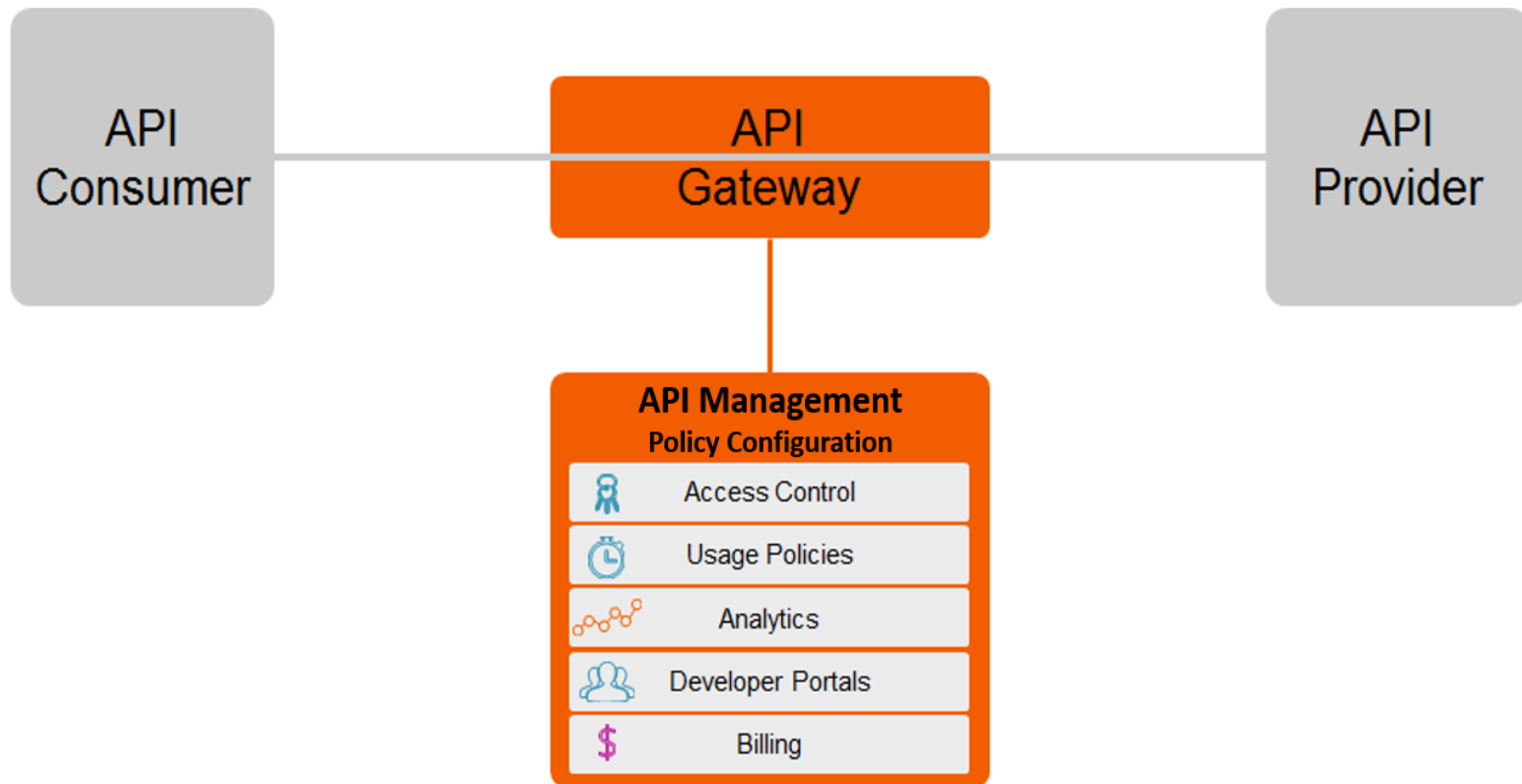
RHMAP Demo!

Red Hat 3scale API Management Platform (RHAMP)

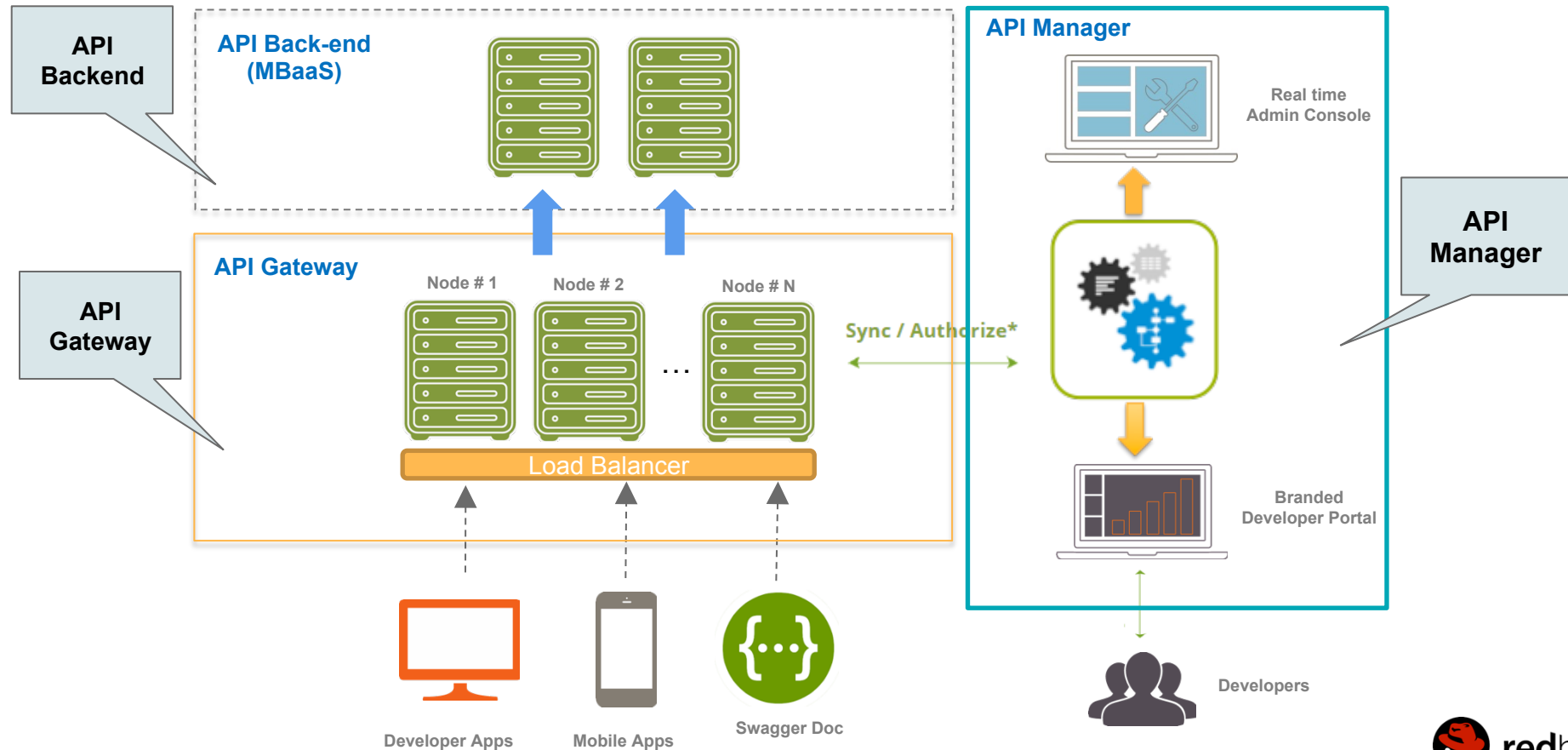
Red Hat 3Scale API Management Approach

- 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

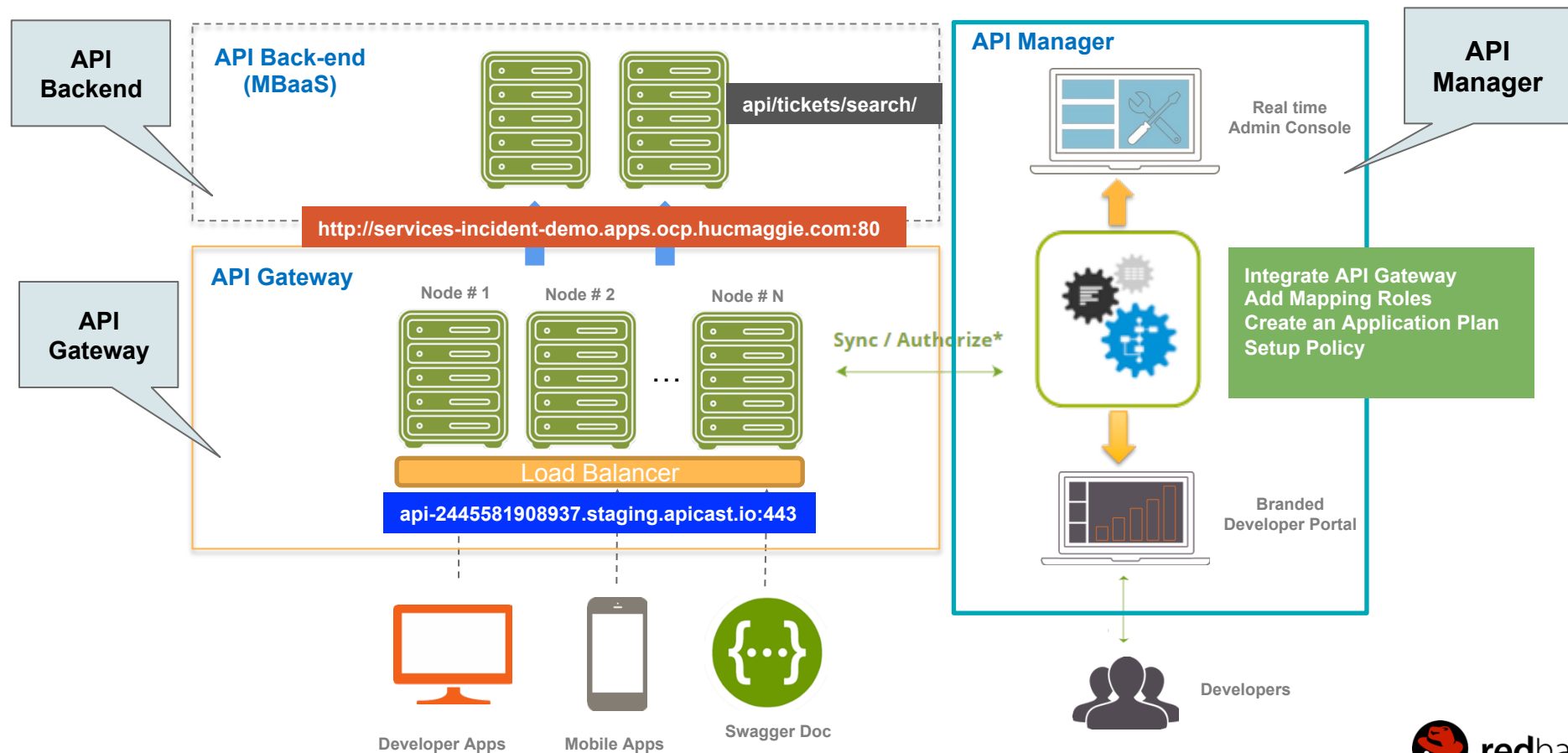
Red Hat 3Scale API Management Model



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?

Maggie Hu

Sr. Middleware Specialist Solution Architect
Red Hat

Email: mhu@redhat.com

Twitter: [@HuCMaggie](https://twitter.com/HuCMaggie)

Ken Spokas

Technical Director
Vizuri

Email: kspokas@vizuri.com

Twitter: [@KenSpokas](https://twitter.com/KenSpokas)

Yossi Koren

Sr. Solution Architect, 3Scale & API Management
Red Hat

Email: ykoren@redhat.com

Twitter: [@yossiko](https://twitter.com/yossiko)



THANK YOU



plus.google.com/+RedHat



facebook.com/redhatinc



linkedin.com/company/red-hat



twitter.com/RedHatNews



youtube.com/user/RedHatVideos

The logo consists of a white speech bubble shape pointing downwards, containing the text "RED HAT" in a smaller font above the word "SUMMIT" in a larger, bold font, both in red.

RED HAT
SUMMIT

**LEARN. NETWORK.
EXPERIENCE
OPEN SOURCE.**