

RED HAT
SUMMIT

CUSTOMIZE & SECURE YOUR ENTERPRISE MOBILE SALESFORCE INTEGRATIONS LIKE RED HAT

Featuring Red Hat Mobile Application Platform, 3Scale by Red Hat, and Red Hat JBoss Fuse

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

Christina Lin - JBoss Technical Evangelist, Red Hat

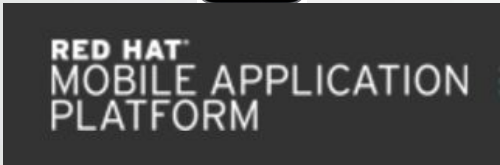
Tom Corcoran - Sr. Solution Architect, 3Scale & API Management, Red Hat

May 2, 2017

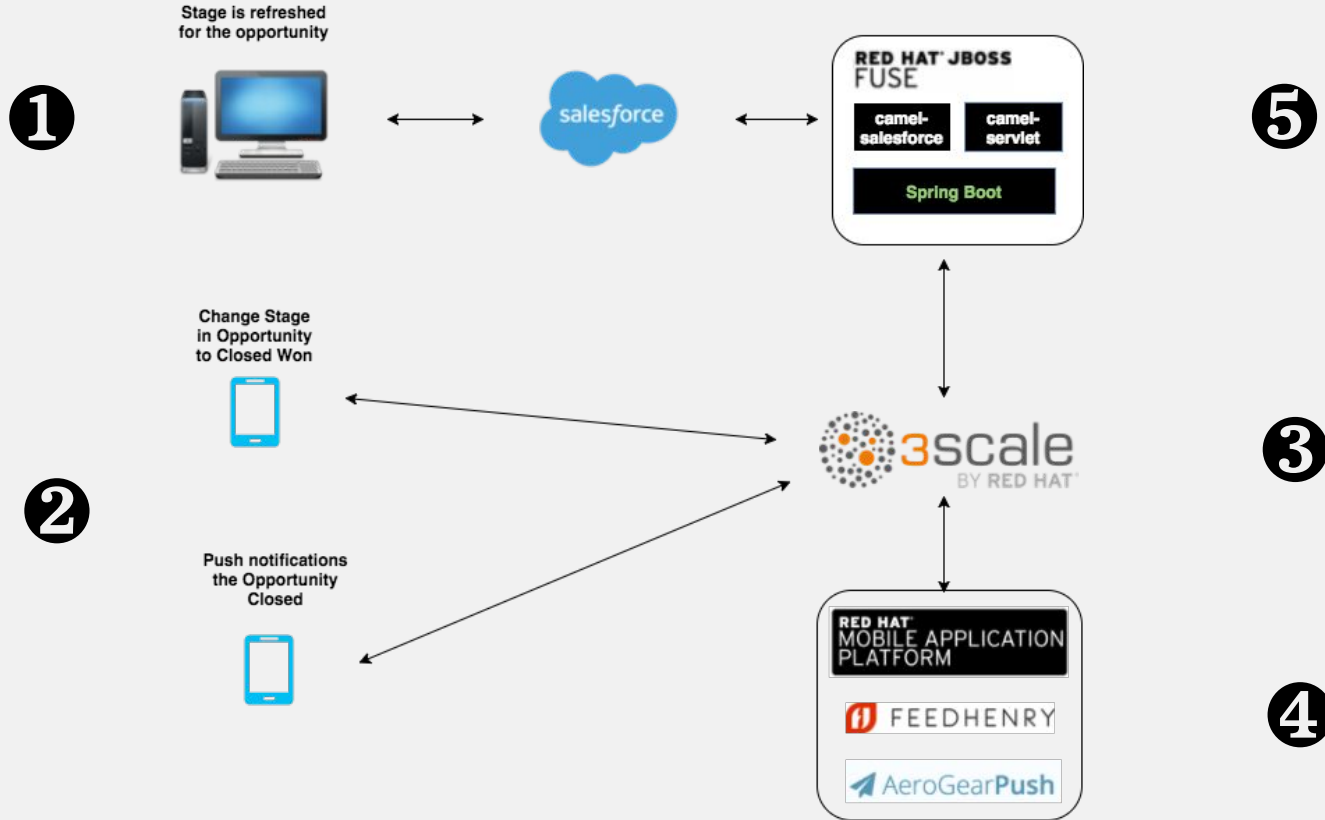
Agenda

- Integrating Salesforce.com with Red Hat Products
- Red Hat Portfolio
- Use cases for today demo
- Demos
- Red Hat Mobile Application Platform
- 3Scale by Red Hat
- Red Hat Fuse Integration

Integrating Salesforce.com with Red Hat Products

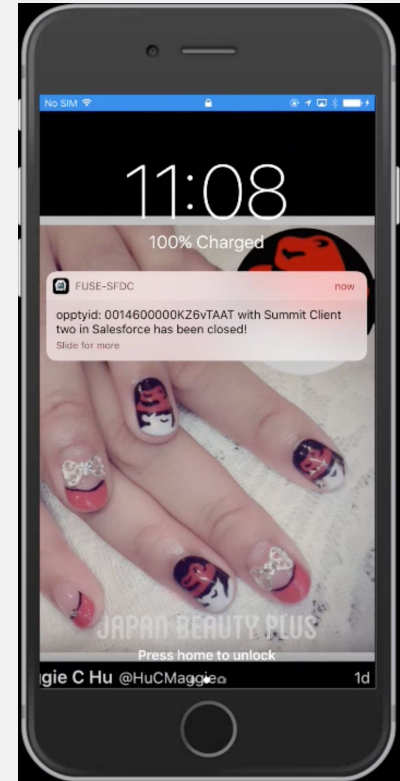
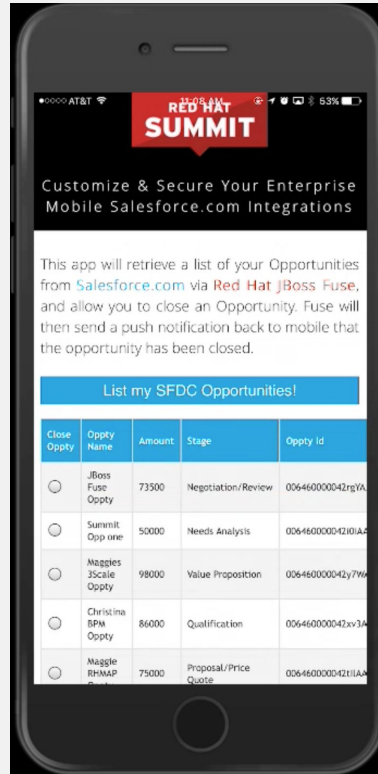
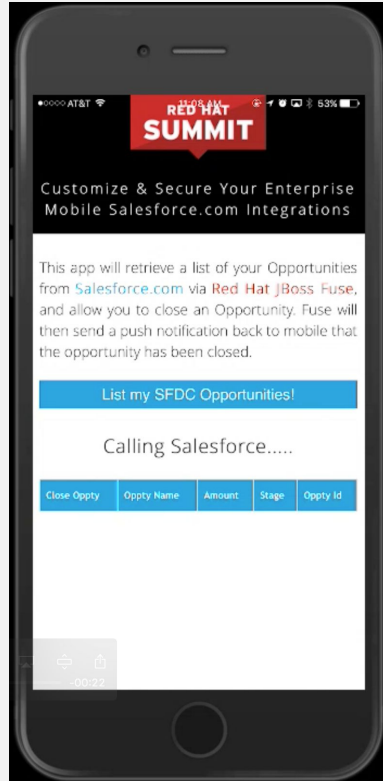
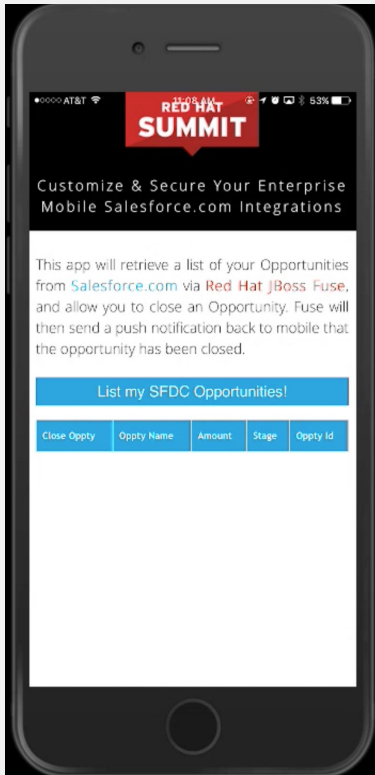


Today's demo!



DEMO!

List & Update Salesforce.com Opportunities



Salesforce.com Opportunity

https://ap2.salesforce.com/006280000AN5u4

Lin Christina changed Stage from Closed Won to Negotiation/Review and Close Date from 2016/6/25 to 2016/7/16.
Comment · Like · Today at AM 2:00

Lin Christina changed Close Date from 2016/6/30 to 2016/6/25.
Comment · Like · Today at AM 1:57

Lin Christina closed this opportunity as Closed Won.
Comment · Like · Today at AM 1:57

Lin Christina changed Amount from a blank value to NT\$987,654,321.00.
Comment · Like · Today at AM 1:56

Products | Open Activities | Activity History | Notes & Attachments | Contact Roles | Partners | Competitors | Stage History

Opportunity Detail

Edit Delete Clone

Opportunity Owner	Lin Christina [Change]	Amount	NT\$987,654,321.00
Private		Expected Revenue	NT\$888,888,888.90
Opportunity Name	Maggie's Test	Close Date	2016/7/16
Account Name	Fuse Integration Account	Next Step	
Type		Stage	Negotiation/Review
Lead Source		Probability (%)	90%
mobile user	12,345	Primary Campaign Source	
Order Number		Main Competitor(s)	
Current Generator(s)		Delivery/Installation Status	
Tracking Number			
Created By	Lin Christina, 2016/6/25 AM 1:56	Last Modified By	Lin Christina, 2016/6/25 AM 2:02
Description			
Custom Links	Delivery Status		

Edit Delete Clone

https://ap2.salesforce.com/006280000AN5u4

Lin Christina changed Stage from Closed Won to Negotiation/Review and Close Date from 2016/6/25 to 2016/7/16.
Comment · Like · Today at AM 2:10

Lin Christina changed Stage from Closed Won to Negotiation/Review and Close Date from 2016/6/25 to 2016/7/16.
Comment · Like · Today at AM 2:00

Lin Christina changed Close Date from 2016/6/30 to 2016/6/25.
Comment · Like · Today at AM 1:57

Lin Christina closed this opportunity as Closed Won.
Comment · Like · Today at AM 1:57

Lin Christina changed Amount from a blank value to NT\$987,654,321.00.
Comment · Like · Today at AM 1:56

Products | Open Activities | Activity History | Notes & Attachments | Contact Roles | Partners | Competitors | Stage History

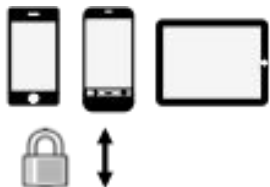
Opportunity Detail

Edit Delete Clone

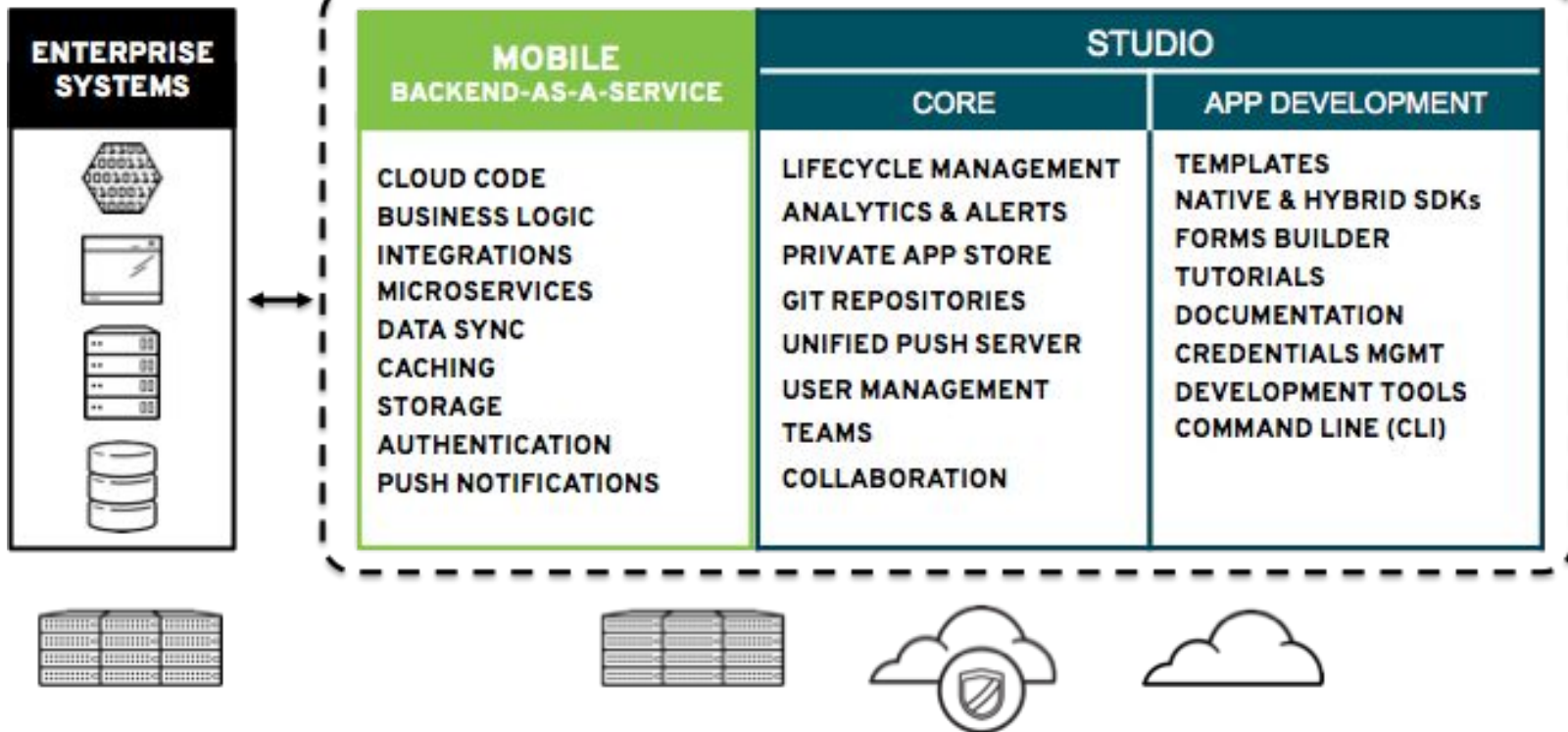
Opportunity Owner	Lin Christina [Change]	Amount	NT\$987,654,321.00
Private		Expected Revenue	NT\$987,654,321.00
Opportunity Name	Maggie's Test	Close Date	2016/6/25
Account Name	Fuse Integration Account	Next Step	
Type		Stage	Closed Won
Lead Source		Probability (%)	100%
mobile user	12,345	Primary Campaign Source	
Order Number		Main Competitor(s)	
Current Generator(s)		Delivery/Installation Status	
Tracking Number			
Created By	Lin Christina, 2016/6/25 AM 1:56	Last Modified By	Lin Christina, 2016/6/25 AM 2:10
Description			
Custom Links	Delivery Status		

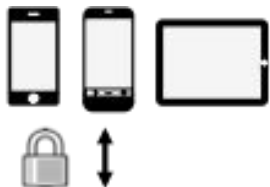
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Red Hat Mobile Application Platform (RHMAP)

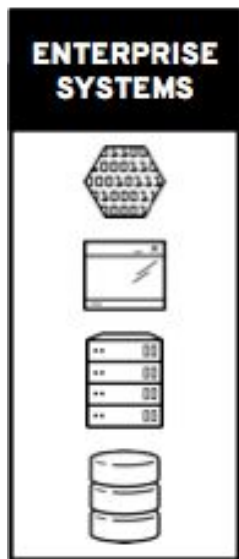


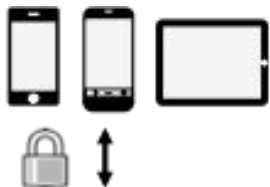
RED HAT® MOBILE APPLICATION PLATFORM



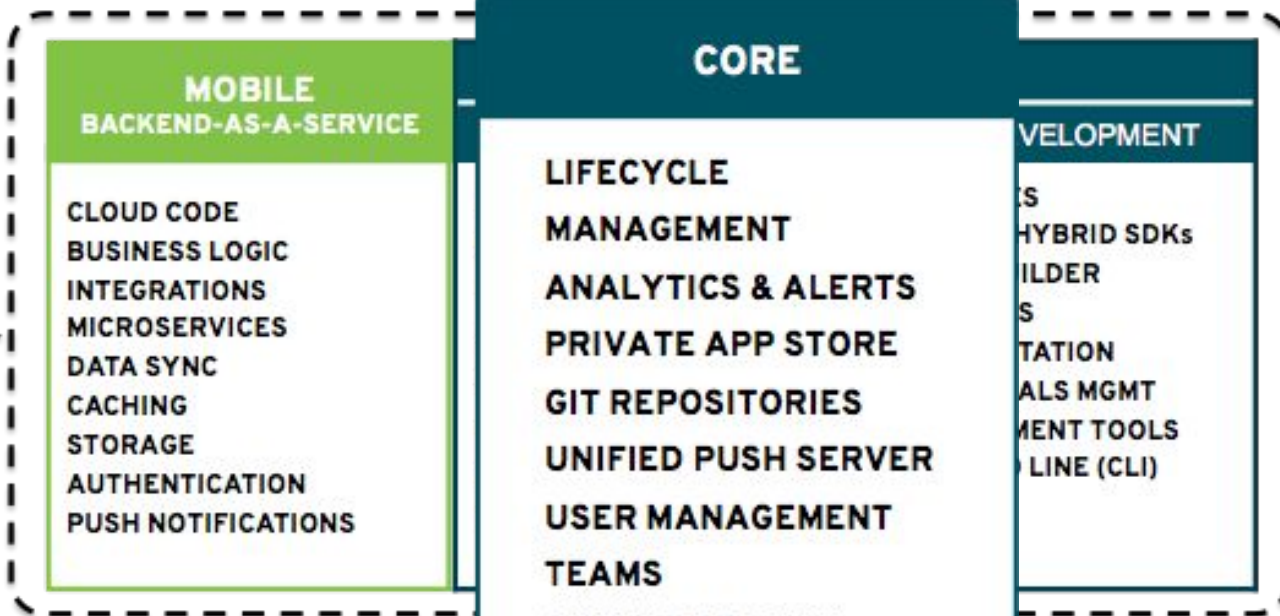
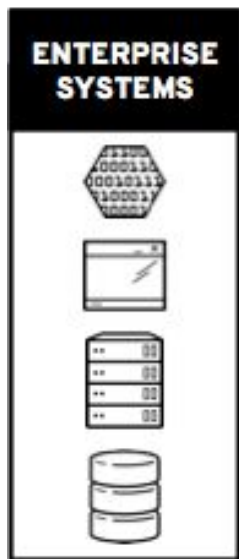


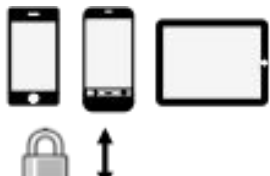
RED HAT® MOBILE APPLICATION PLATFORM



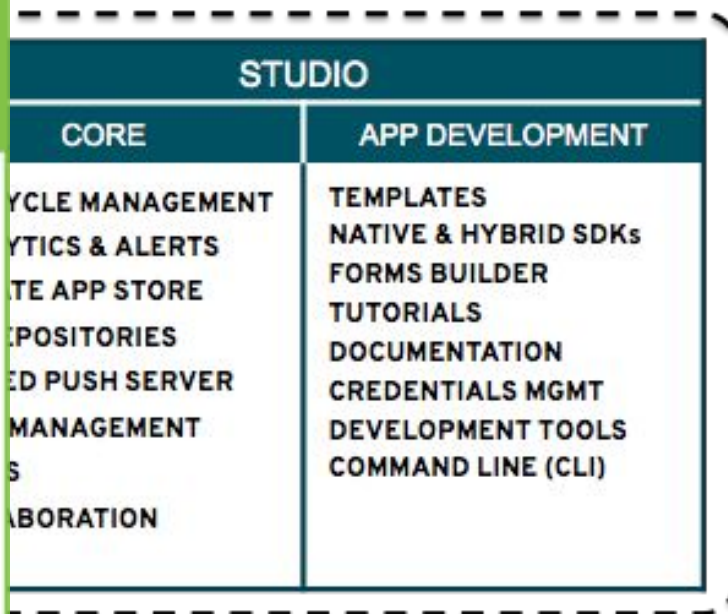
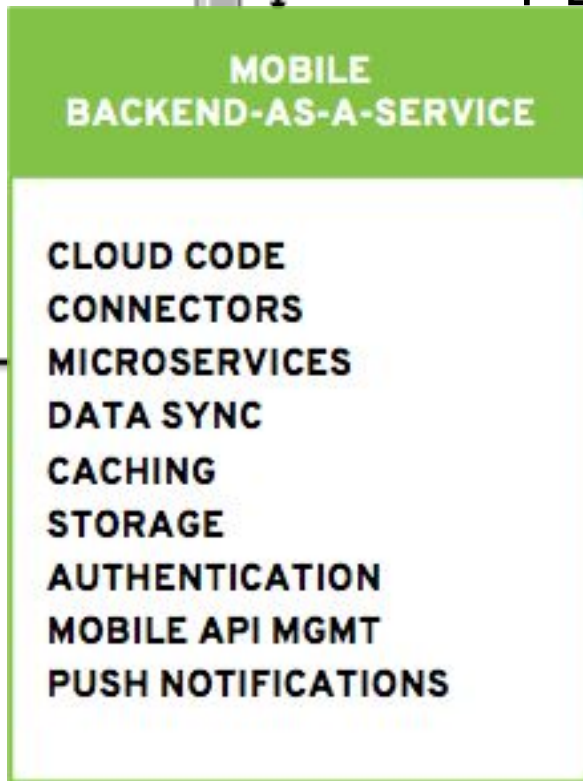
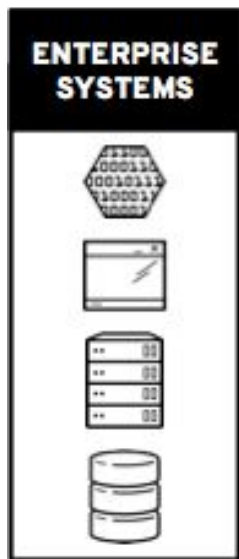


RED HAT® MOBILE APPLICATION PLATFORM





RED HAT® MOBILE APPLICATION PLATFORM



OPENSIFT VIEW OF RHMAP ARCHITECTURE

Complex architecture, same great RHMAP user experience

OpenShift Container Platform

OpenShift Master Nodes

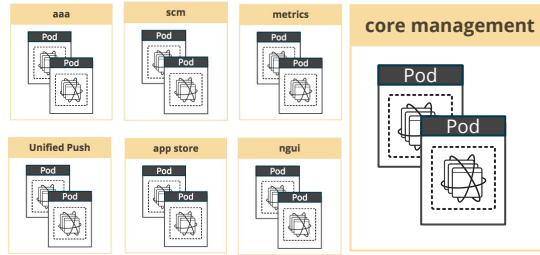
Authentication

Data Store

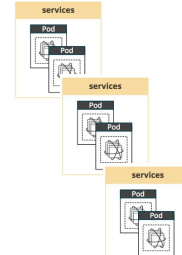
Scheduler

Health/Scaling

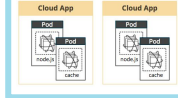
RHMAP Core Infra Nodes



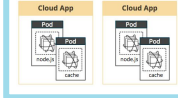
MBaaS Infra



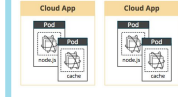
Mobile App Node



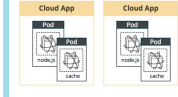
Mobile App Node



Mobile App Node



Mobile App Node



OpenShift Infra Nodes

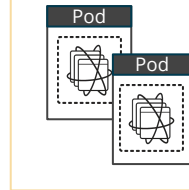
Routers

Registry

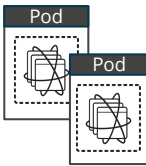
etcd

Other App Nodes

other services

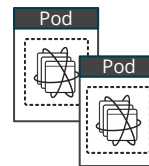


JBoss EAP

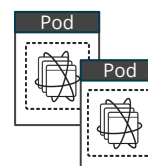


Other App Nodes

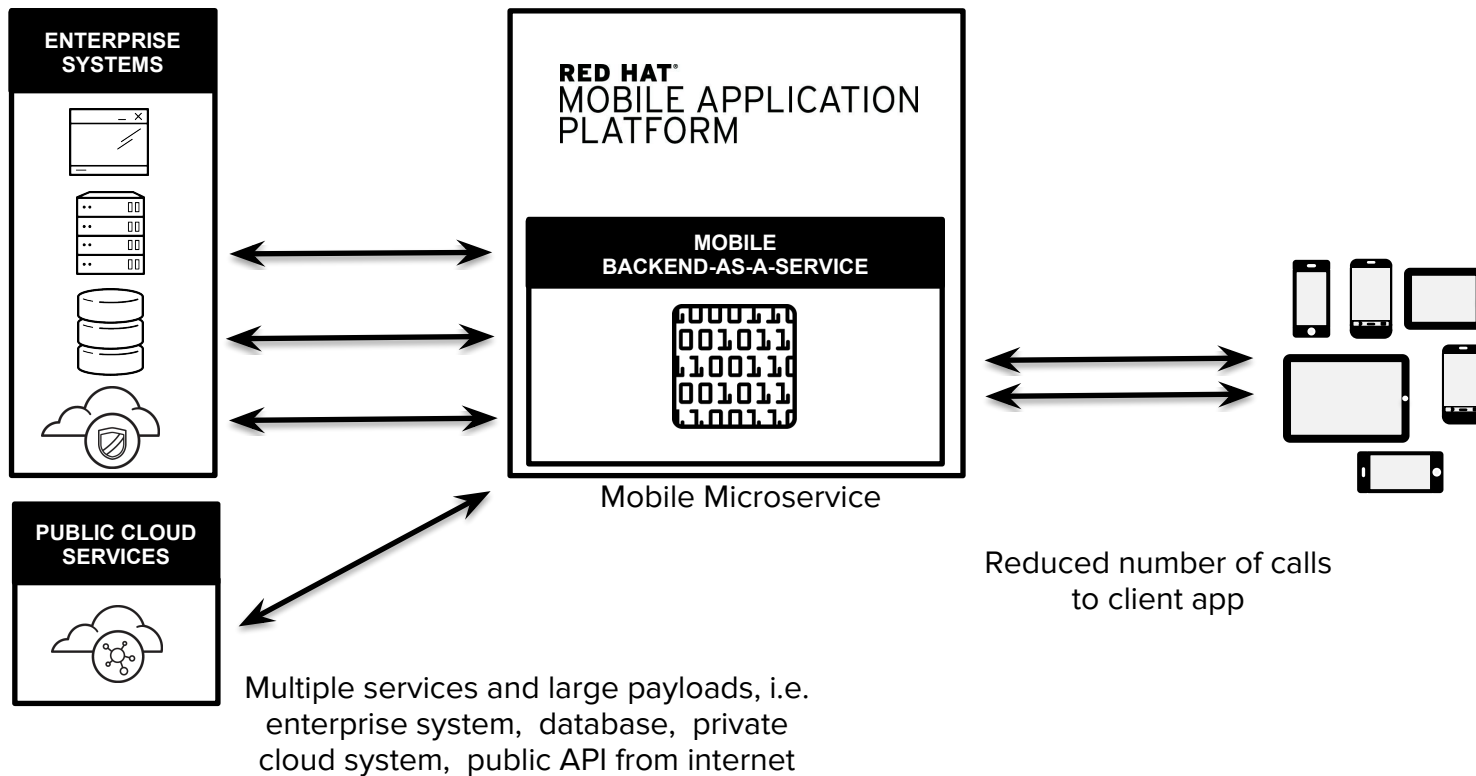
JBoss Fuse



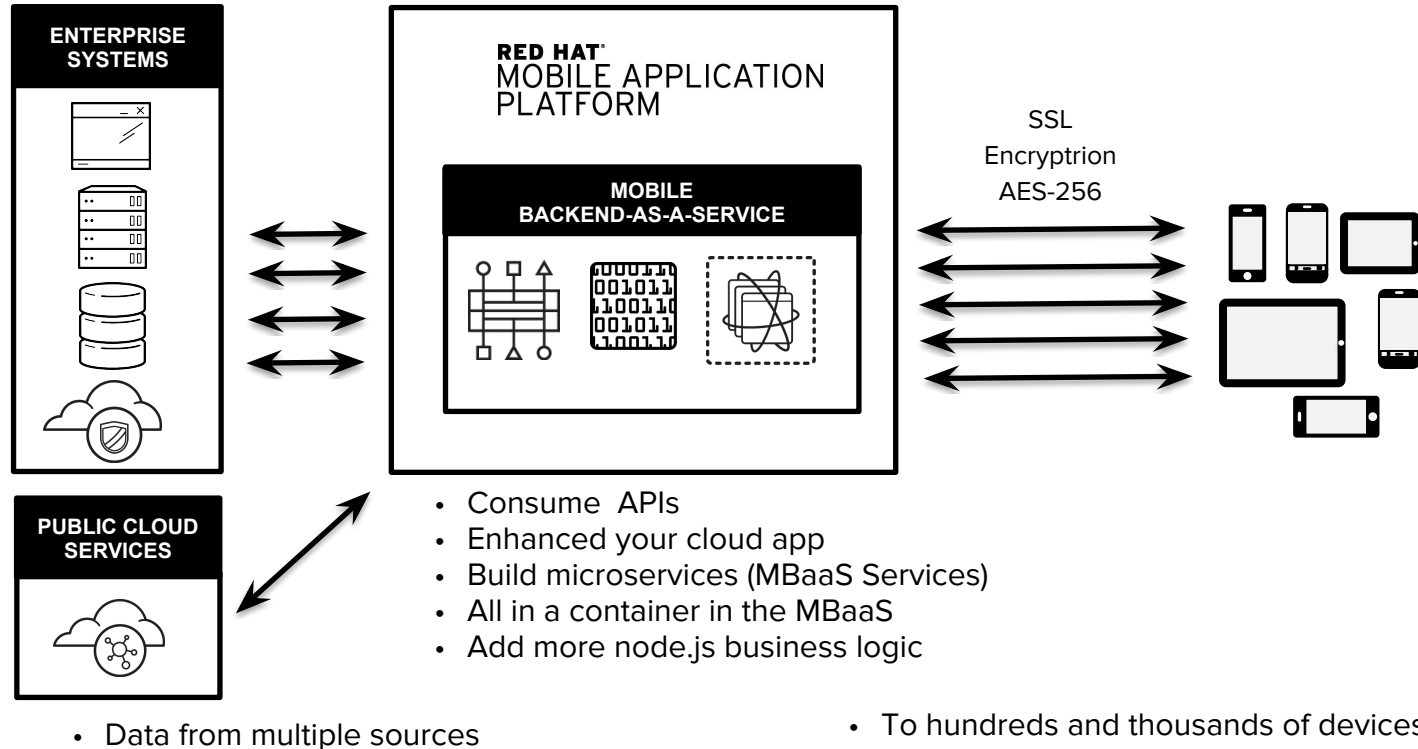
JBoss BPM



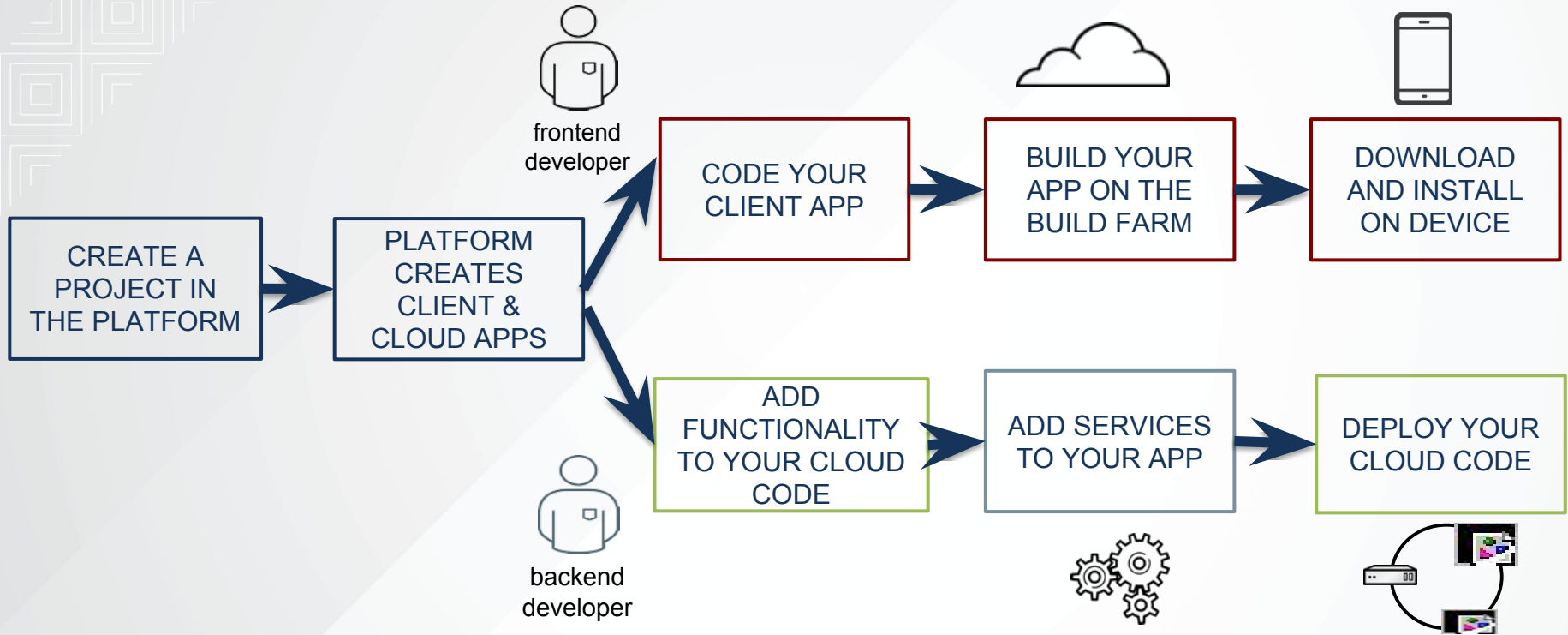
MOBILE APPS AND MICROSERVICES IN RHMAP



SUMMARY OF MOBILE APPS WITH RHMAP



Full Process Flow to Build a Mobile App



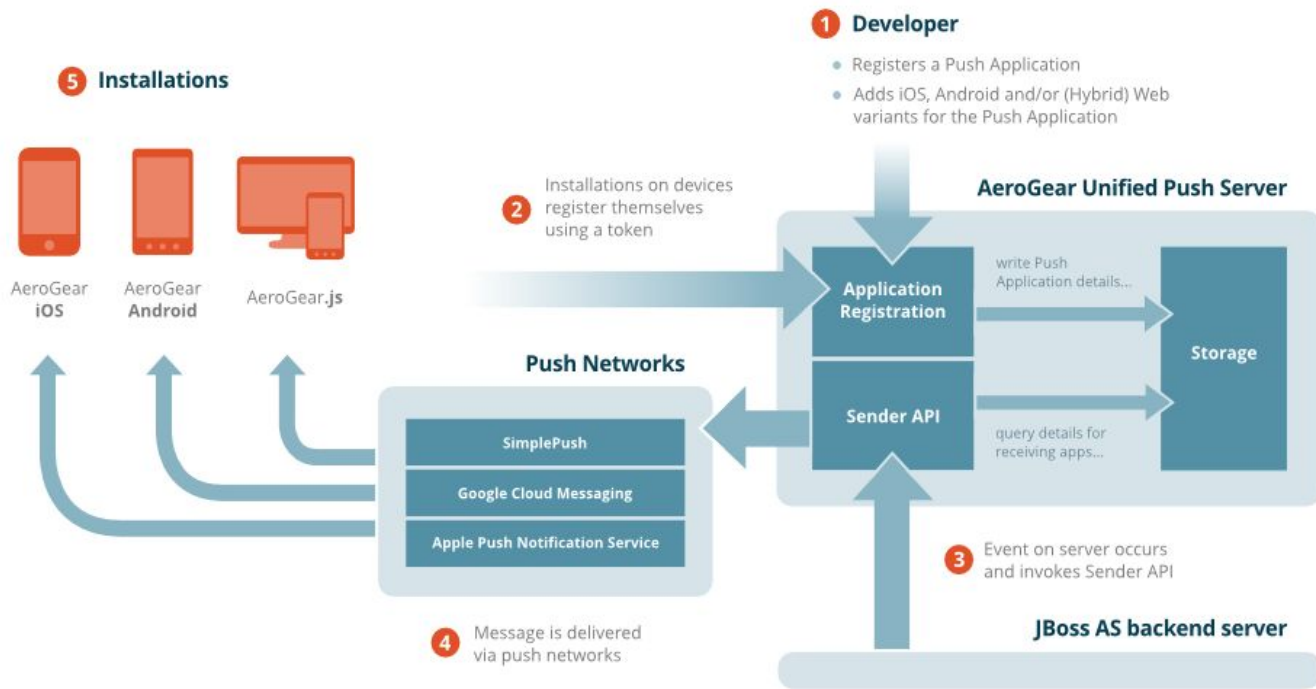
Red Hat Mobile Components

The screenshot displays the Red Hat Mobile Application Platform interface. At the top, the navigation bar includes the platform name and various menu items: Projects, Analytics, Resources, Drag & Drop Apps, Services & APIs, Admin, and Docs. Below this, a secondary navigation bar shows the current project 'Summit 2016-...' and a list of categories: Apps, Cloud Apps & Services, Connections, Resources, Lifecycle, Forms, Reporting, and Settings. The main content area is titled 'Summit 2016-2017 Customize & Secure Your Enterprise Mobile Salesforce.com Integrations' and is organized into three columns:

- Apps:** Contains a component titled 'List Update SFDC Oppty Cordova App' (Cordova), updated 5 minutes ago. It includes a 'Copy' button and a git repository link.
- Cloud Code Apps:** Contains a component titled 'MAP-Fuse Cloud App' (Node.js Cloud App), updated 10 days ago. It includes a 'Copy' button and a git repository link.
- MBaaS Services:** Contains a component titled 'Salesforce Connector - Connector Service', updated 10 months ago. It includes a 'Discover' button and the Salesforce logo.

3.16.3 (Core MAP (US-TOM)) - Copyright © 2017 Red Hat

AeroGear Unified Push Server



Red Hat Mobile Unified Push Notifications

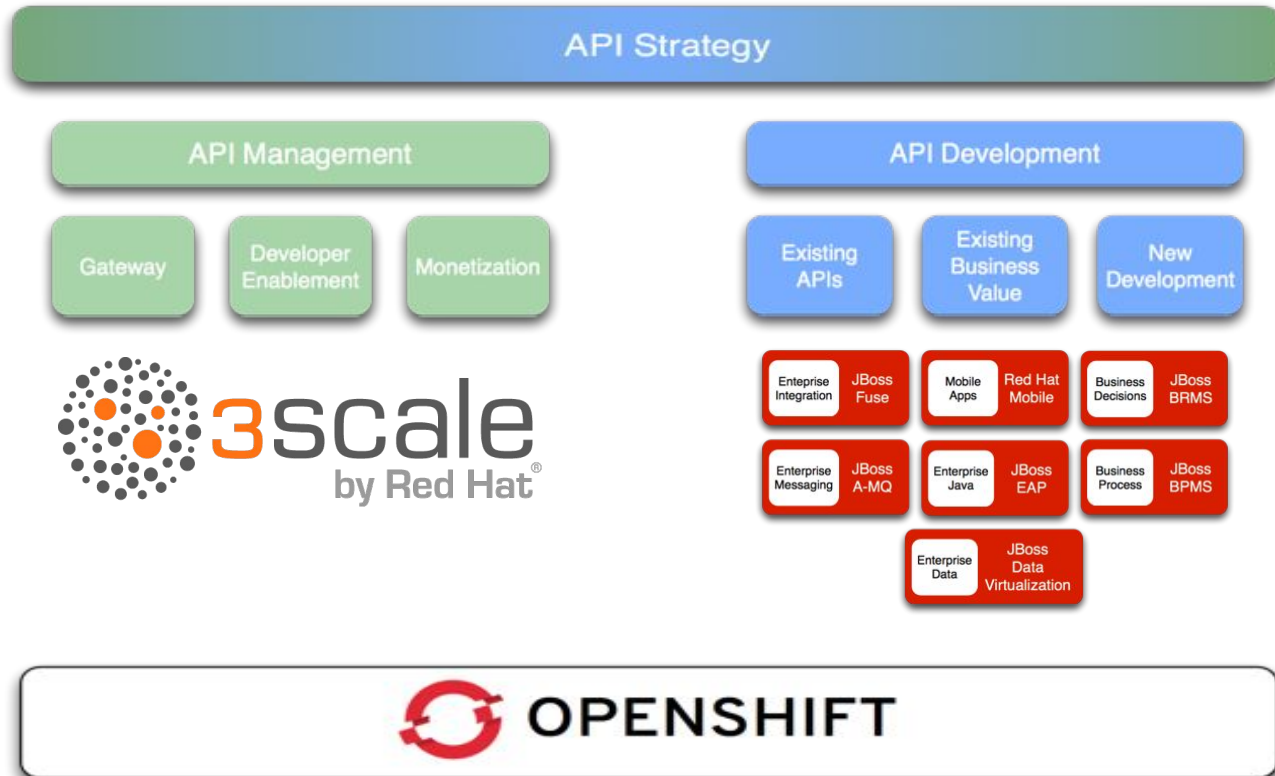
The screenshot displays the Red Hat Mobile Application Platform interface. The top navigation bar includes 'RED HAT MOBILE APPLICATION PLATFORM' and various menu items like 'Projects', 'Analytics', 'Resources', 'Drag & Drop Apps', 'Services & APIs', 'Admin', and 'Docs'. Below this, a secondary navigation bar shows 'Summit 2016...' and 'Apps, Cloud Apps & Services'. The main content area is titled 'Push Notifications' and contains the following elements:

- App Header:** 'RHSummit List Update SFDC Oppty Cordova Light App' with a 'Send Notification to this app' button.
- Navigation Tabs:** 'Analytics', 'Variants', 'Sender API', and 'Activity log'.
- Summary:** 'You have 2 Variants' with an 'Add a variant' button.
- Android Variant:** Shows 0 Variants, 0 Messages, and 0 Devices. A note indicates 'No installation yet'.
- iOS Variant:** Shows 69 Messages and 10 Devices.
- App Notifications Panel:** A summary box showing 2 Variants, 69 Messages, and 10 Devices, with a list of recent notifications and a 'See all notifications' link.

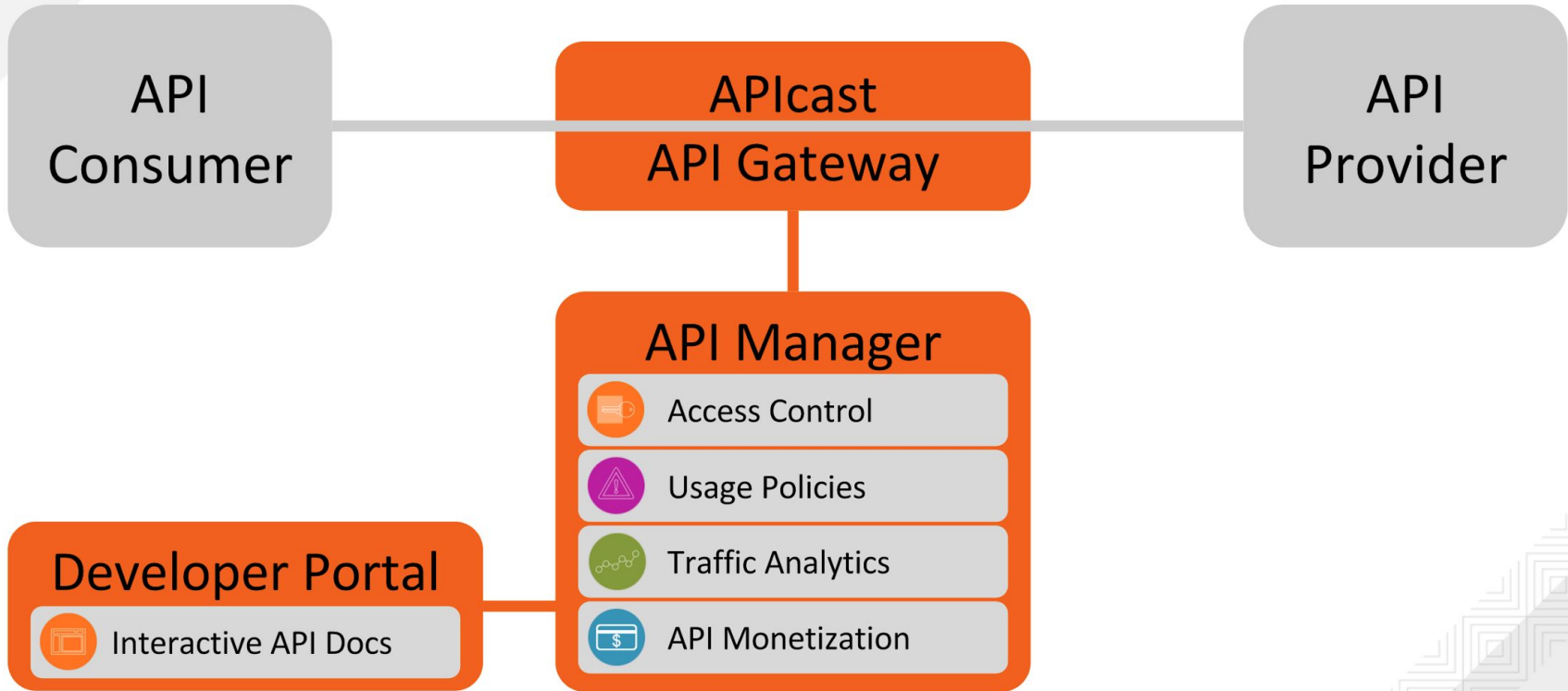
At the bottom right of the interface, the version information is displayed: 3.16.3 (Core MAP (US-TOM)) - Copyright © 2017 Red Hat.

3Scale by Red Hat

Enabling Your API Strategy



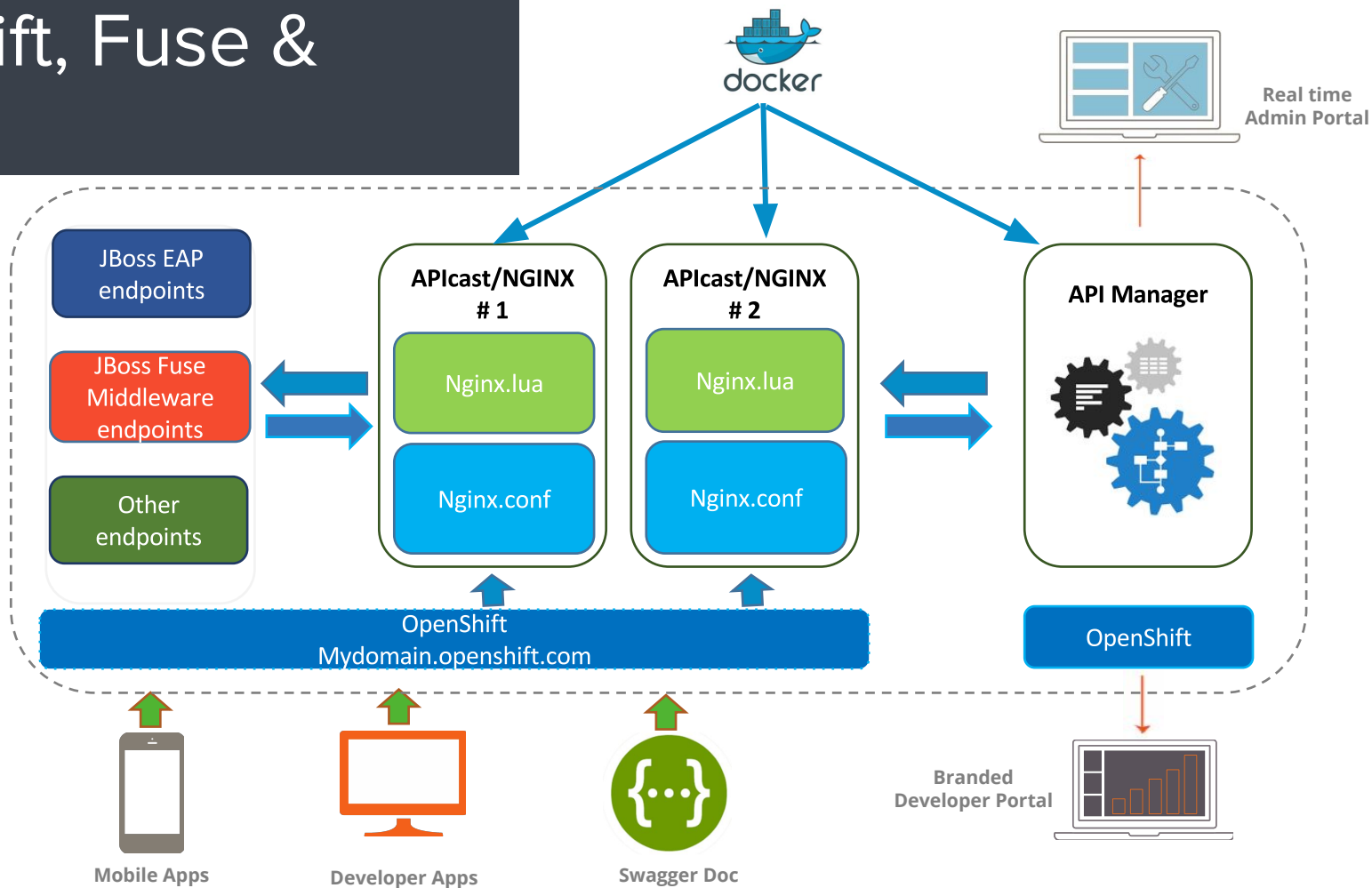
3scale Architecture



OpenShift, Fuse & 3scale

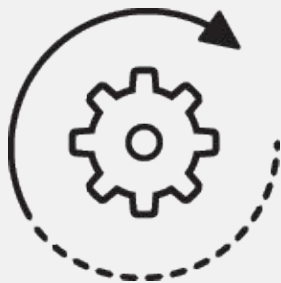
Benefits:

- Security
- Scalability
- Very low latency
- Privacy
- Control
- Flexibility



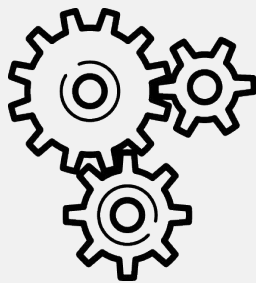
Integrating with Salesforce

Fuse and Salesforce



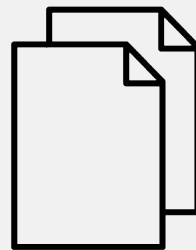
Code generation
Configuration

Built-in Tooling
Drag and drop route
Configure application



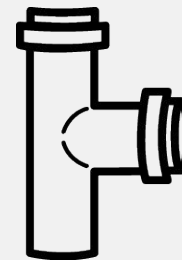
Integrate
Summarize

HR, ERP
Salesforce to
Salesforce
System migration



Enrich
Type Transform

Aggregators
Splits
XML, JSON
Customize data



Proxy
APIs

Monetizing services
Information
customization
Version control

Applying Agile Integration

Distributed Integration

- Lightweight
- Pattern Based
- Reusable Connectors
- Community Sourced

Flexibility

Container

- Cloud native solutions
- Lean artifacts, individually deployable
- Container based scaling and high availability

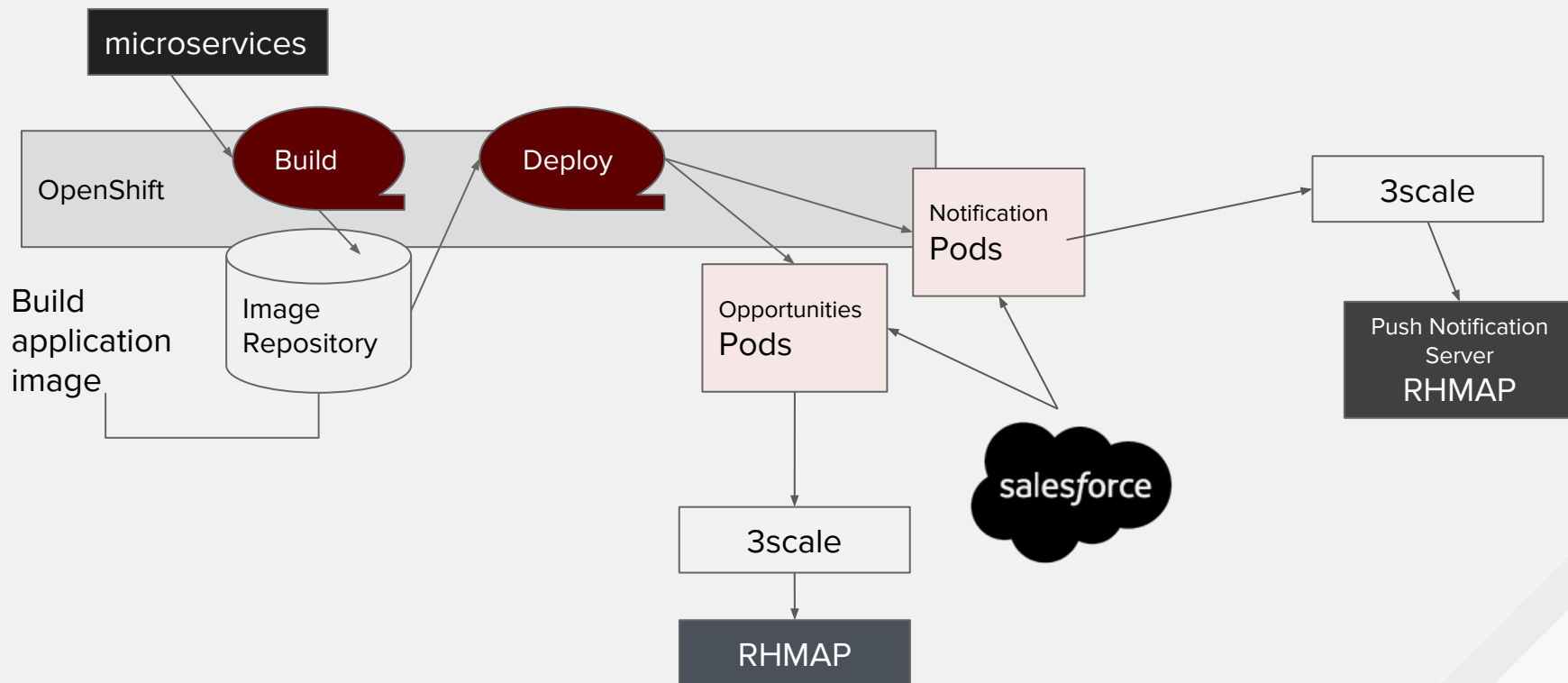
Scalability

API

- Well defined, re-usable, and well managed end-points
- Ecosystem leverage

Re-Usability

Fuse Integration Architecture



Salesforce Integration - microservice way



Generate Salesforce Objects Maven Salesforce plugin

```
mvn camel-salesforce:generate -DclientId=id -DclientSecret=secret -Dusername=username  
-Dpassword=password
```



Configure Salesforce Connectors CRUD Salesforce Objects, Bulk, Stream(Consumer) Rest API support

```
salesforce:upsertSObject?sObjectName=Account  
salesforce:CamelTestTopic&sObjectName=Account
```



Applying Enterprise Integration Pattern

```
<split id="_split1">  
  <jsonpath>recentItems</jsonpath>  
  <log id="_log3" message="{body}" />  
  <to id="_to3" uri="direct:getOppDetail" />  
</split>
```

Mobile/3scale API Integration - Proxying



Restful API Endpoint

Rest DSL

```
<rest path="/opportunity" produces="application/json">
  <get uri="/getList">
    <description>retrieve lists of opportunities</description>
    <to uri="direct:getOppoRecentList"/>
  </get>
</rest>
```



Calling push notification server

HTTP4 component, CXF-RS, CXF

```
<to id="_to3" uri="http4://push.34.210.10.237.xip.io/api/v2/ag-push/rest/sender"/>
```



Generate OpenAPI documentation

```
<restConfiguration apiContextPath="api-docs" bindingMode="json" component="servlet">
```

Containerized Application



Local debug

Maven Spring boot plugin

```
mvn spring-boot:run
```



Containerized Integration Solution and Cloud Deployment

Maven fabric8 plugin

```
mvn clean fabric8:deploy
```



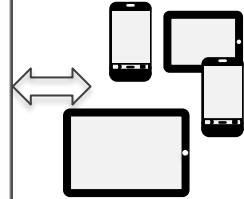
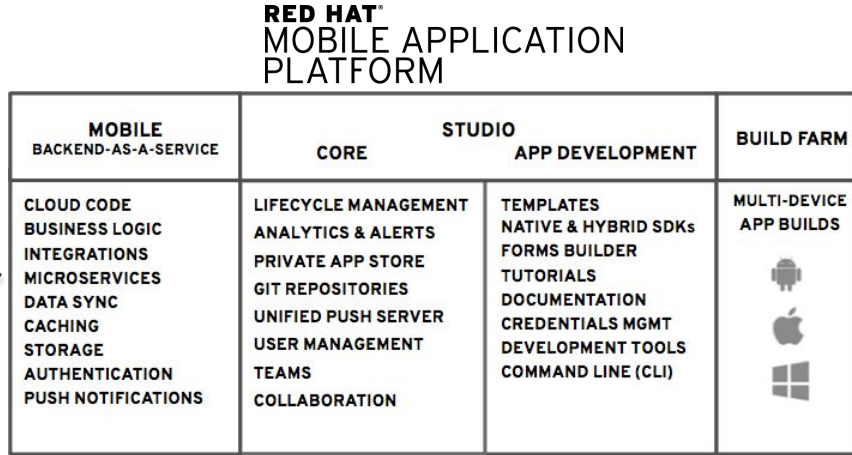
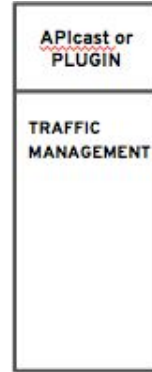
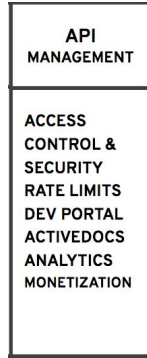
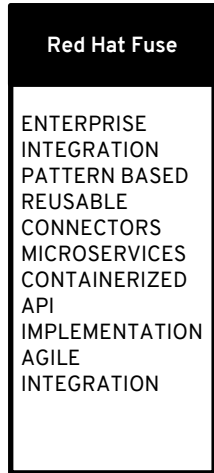
Manage and scale integration layer

```
https://ocpmaster.ocp.hucmaggie.com:8443/console/
```

Summary

Enterprise Mobile Integration with Salesforce

2. Configure API Management Policies



1. Integrate With Salesforce



3. RESTful APIs of Integrated data from RedHat Fuse



4. 3scale manages APIs monitors and secure

5. Microservices are created consuming APIs to feed mobile app

6. RHMAPP features add functionality to the app and build app for multiple mobile platforms

Reference

A recap of Red Hat Summit sessions:

- <http://maggiechu-jboss.blogspot.com/2017/05/red-hat-summit-2016-2017-customize-secure-your-enterprise-mobile-salesforce-integrations-with-redhat.html>

QUESTIONS?

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RED HAT API MANAGEMENT AT SUMMIT 2017

Time	Room	Title
Tuesday, 2nd May		
10:15	101	Technological pivot points lightning talks
15.30	151A	The Three Pillars that Apply Agile to Integration
16:30	153C	Mobile API Management and Integration - A Reference Architecture and Demo
16.30	153B	Customize and secure your enterprise mobile Salesforce integrations like Red Hat
18:00	210A	API Escape Room
Wednesday, 3rd May		
10:15	104C	Blueprint for modern application architecture with APIs, OpenID, and microservices
10:15	102B	Building secure IoT solutions with Red Hat
Thursday, 4th May		
10:15	152	Managing across the API life cycle
15.30	157B	Schiphol Airport: Sharing the experience of running a multicloud OpenShift integration CPaaS with API management in production
16.30	152	How to craft a successful API strategy
16.30	153C	Mobilizing and securing Red Hat JBoss BPM Suite and BRMS
16:40	156C	Agile Integrations in Action

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

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EXPERIENCE
OPEN SOURCE.