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

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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

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Integrating Salesforce.com with Red Hat Products

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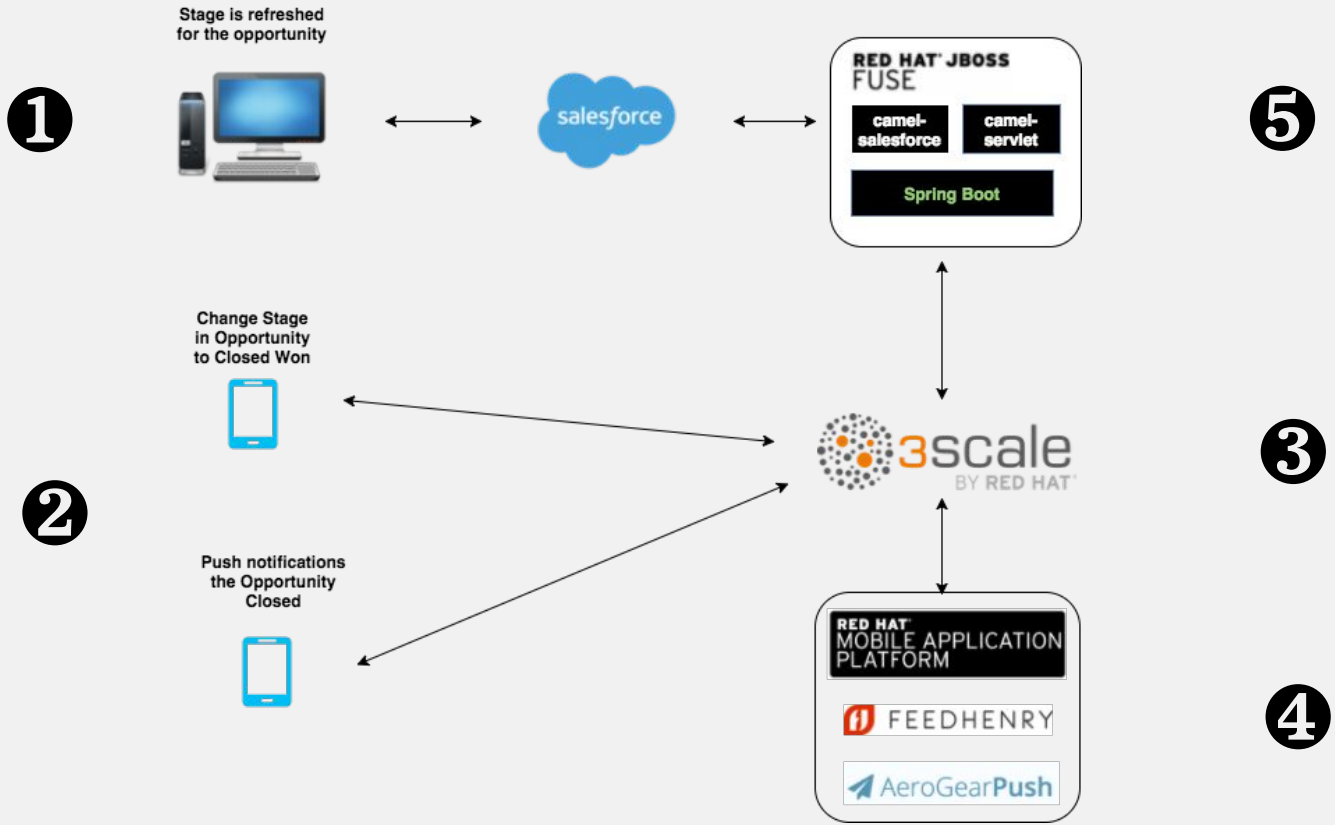
MOBILE APPLICATION PLATFORM

salesforce

3scale BY RED HAT®

JBoss
Middleware
Fuse

Today's demo!


1
Stage is refreshed for the opportunity
salesforce
RED HAT JBOSS FUSE
camel-salesforce
camel-servlet
Spring Boot
5
Change Stage in Opportunity to Closed Won
2
3scale BY RED HAT
3
Push notifications the Opportunity Closed
RED HAT MOBILE APPLICATION PLATFORM
FEEDHENRY
AeroGearPush
4

DEMO!

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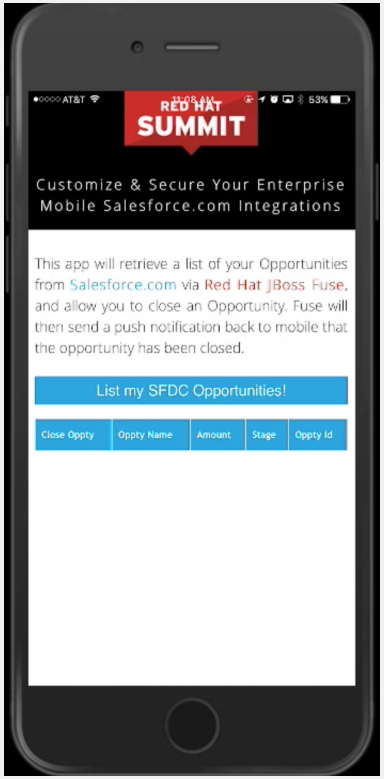
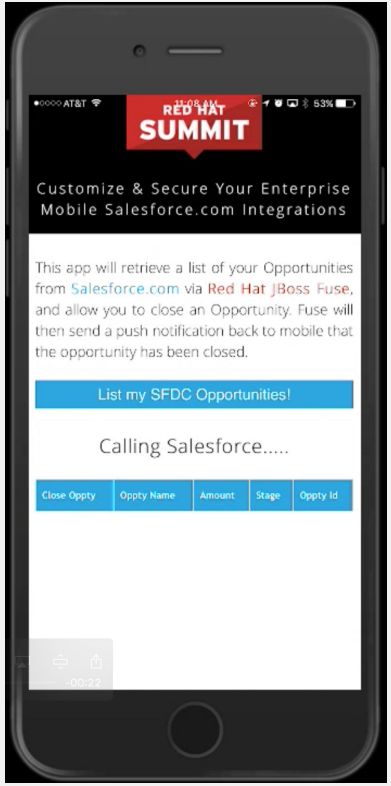
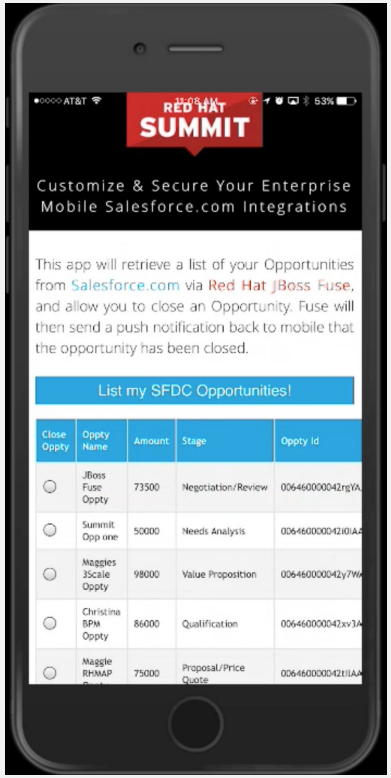
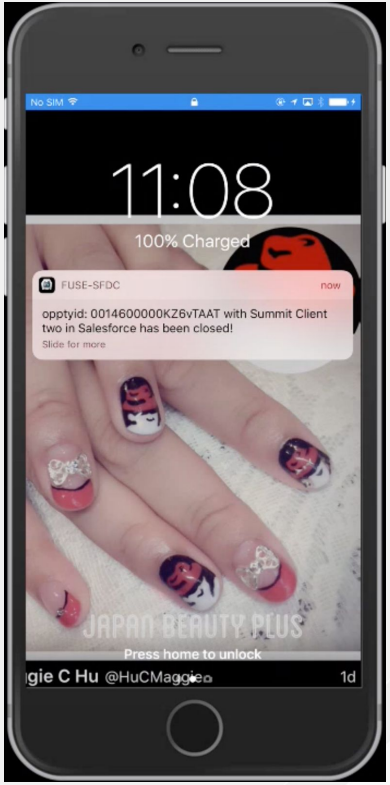
List & Update Salesforce.com Opportunities









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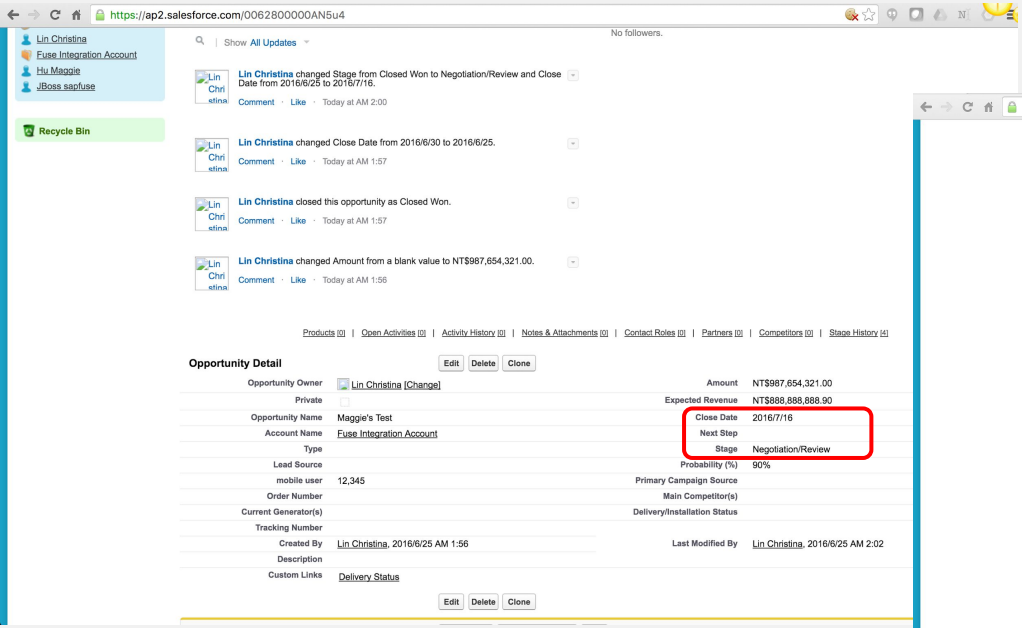
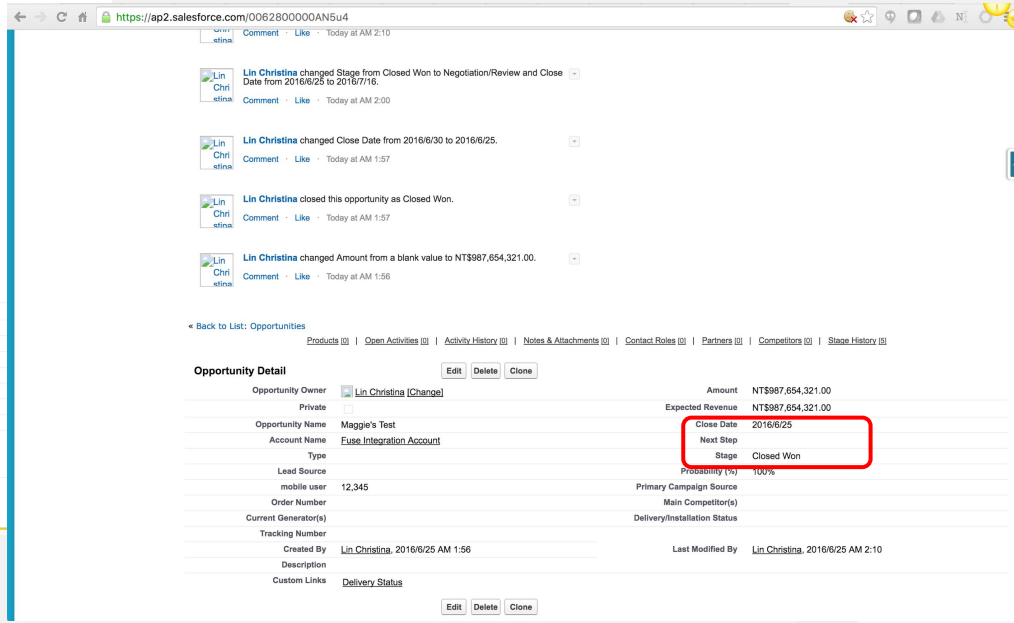
Salesforce.com Opportunity





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Red Hat Mobile Application Platform (RHMAP)

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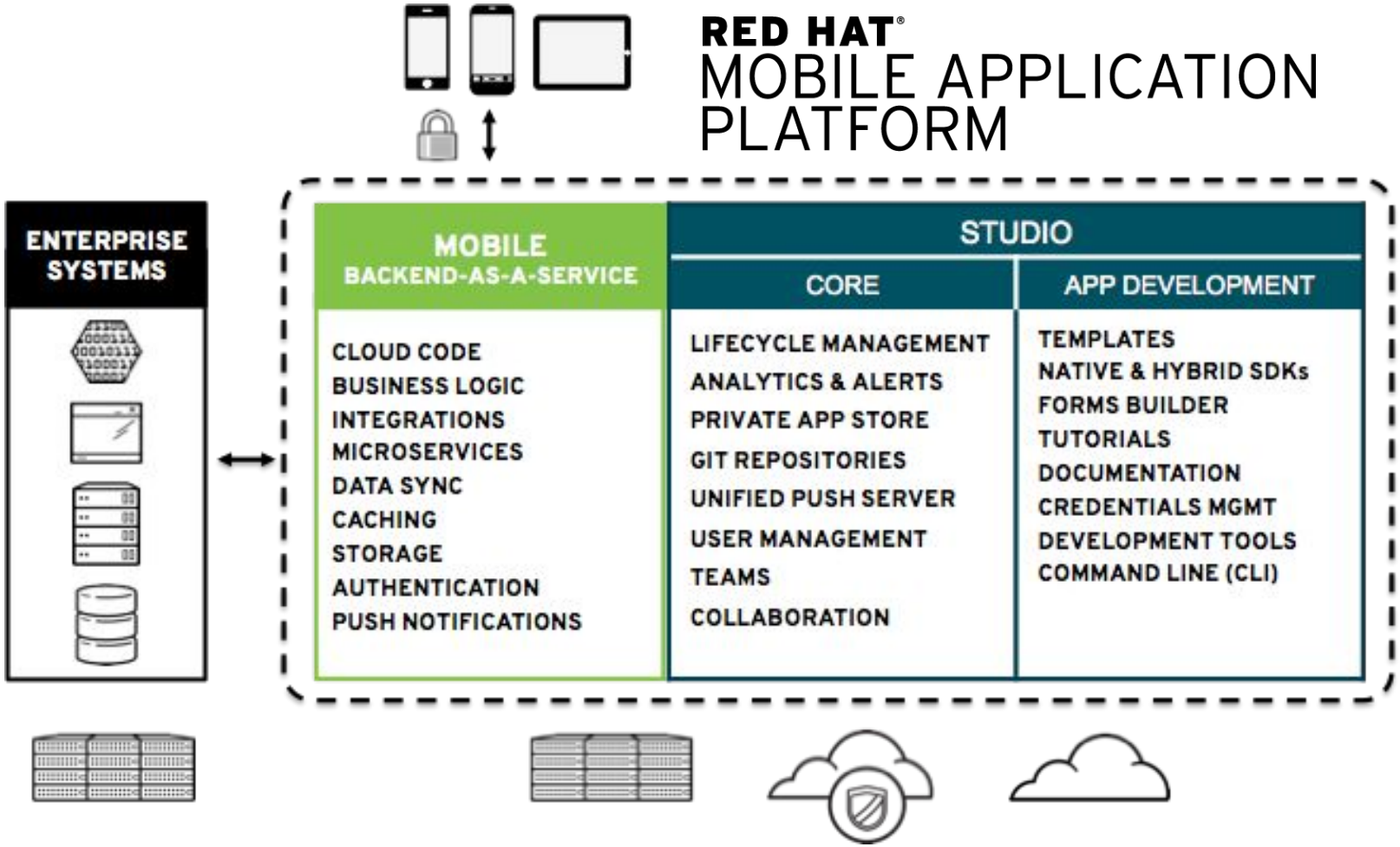
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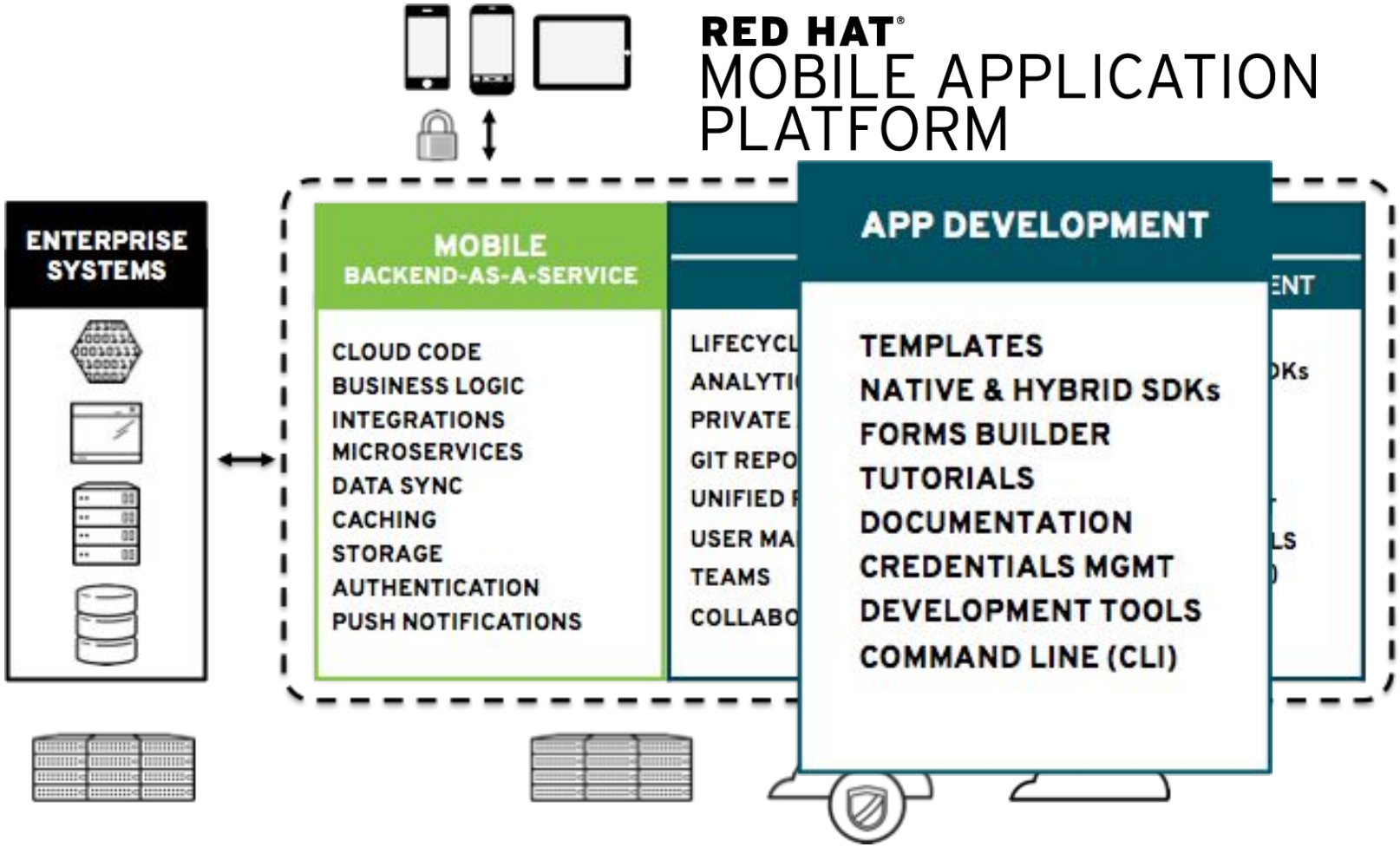
INTEGRATIONS
MICROSERVICES
DATA SYNC
CACHING
STORAGE
AUTHENTICATION
PUSH NOTIFICATIONS
STUDIO
CORE
LIFECYCLE MANAGEMENT
ANALYTICS & ALERTS
PRIVATE APP STORE
GIT REPOSITORIES
UNIFIED PUSH SERVER
USER MANAGEMENT
TEAMS
COLLABORATION
APP DEVELOPMENT
TEMPLATES
NATIVE & HYBRID SDKs
FORMS BUILDER
TUTORIALS
DOCUMENTATION
CREDENTIALS MGMT
DEVELOPMENT TOOLS
COMMAND LINE (CLI)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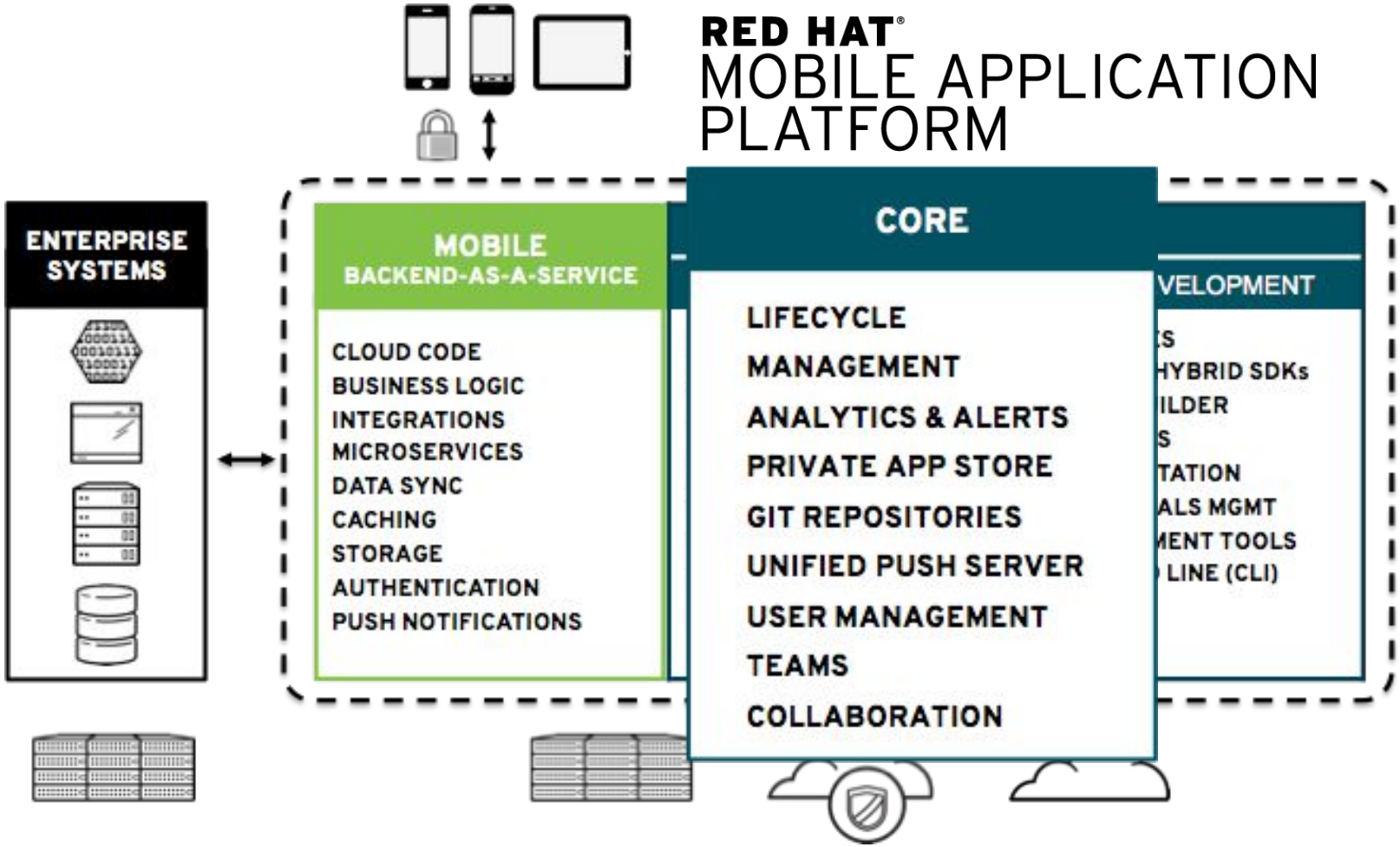
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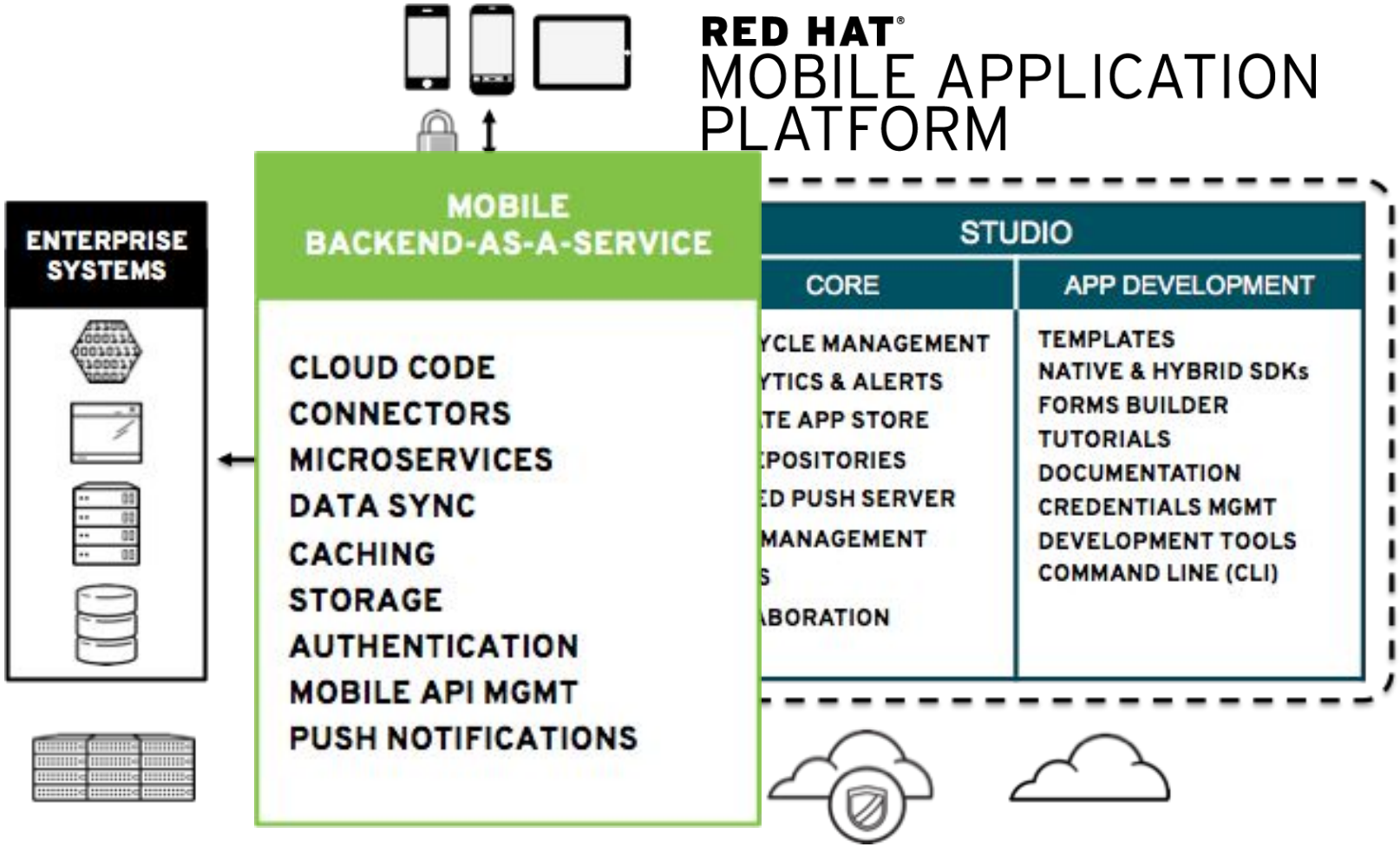
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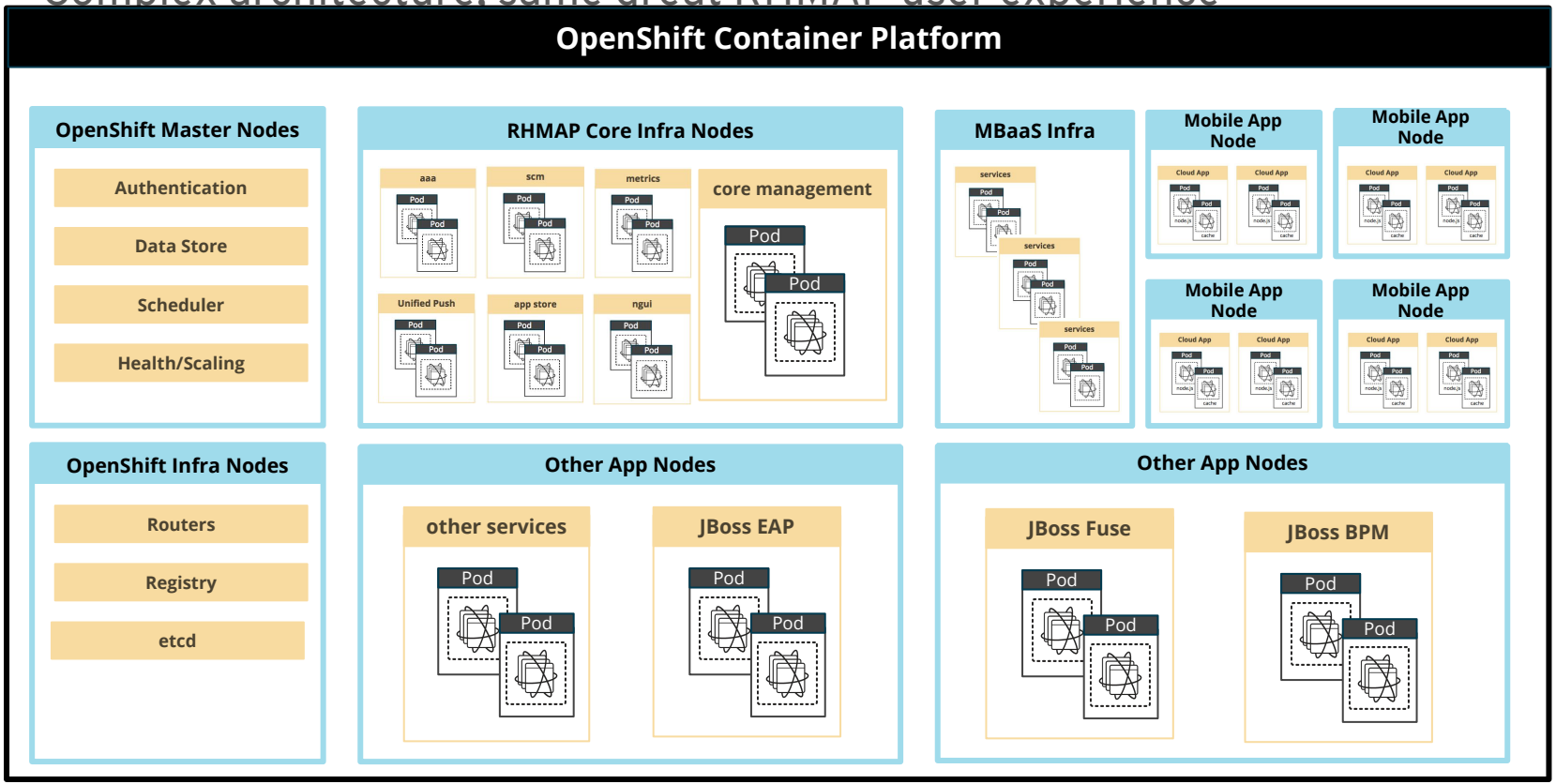
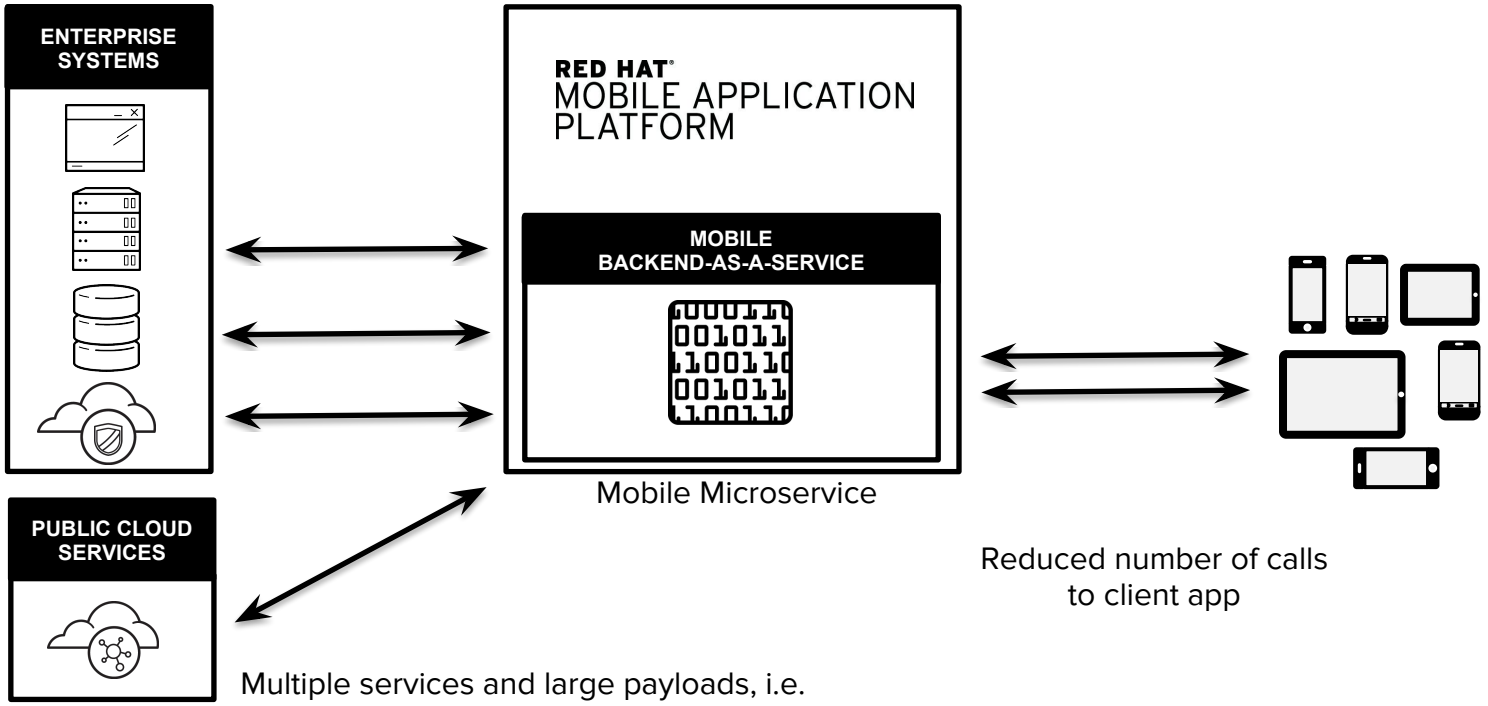
OPENSHIFT VIEW OF RHMAP ARCHITECTURE

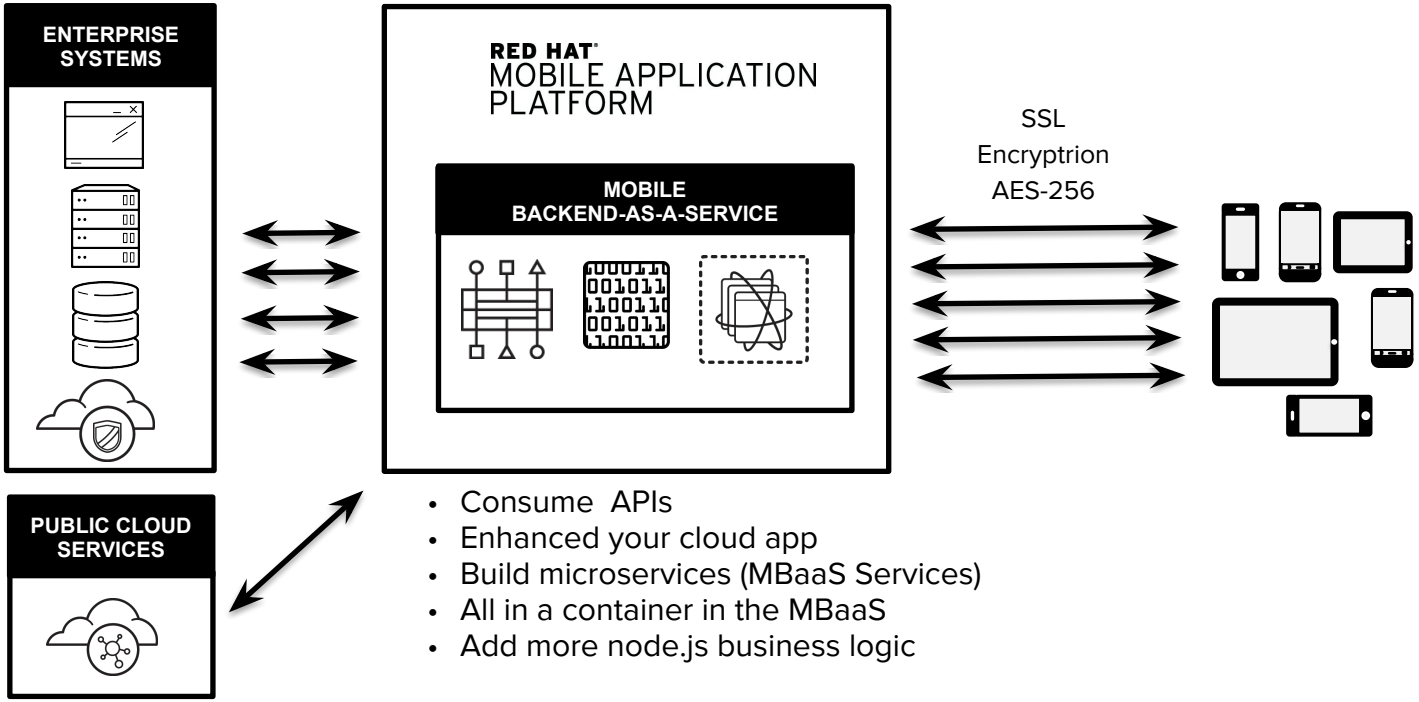
Complex architecture, same great RHMAP user experience



MOBILE APPS AND MICROSERVICES IN RHMAP



SUMMARY OF MOBILE APPS WITH RHMAP

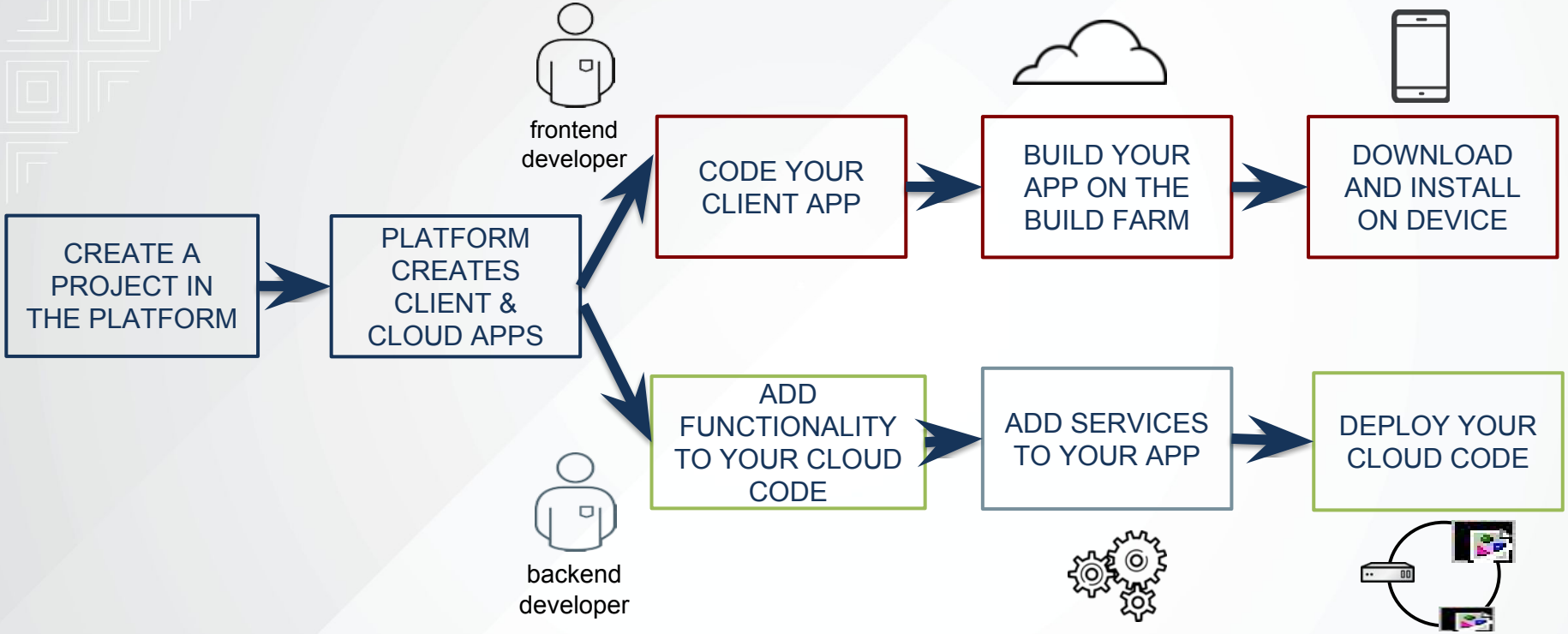


- Consume APIs
- Enhanced your cloud app
- Build microservices (MBaaS Services)
- All in a container in the MBaaS
- Add more node.js business logic

- Data from multiple sources

- To hundreds and thousands of devices

Full Process Flow to Build a Mobile App



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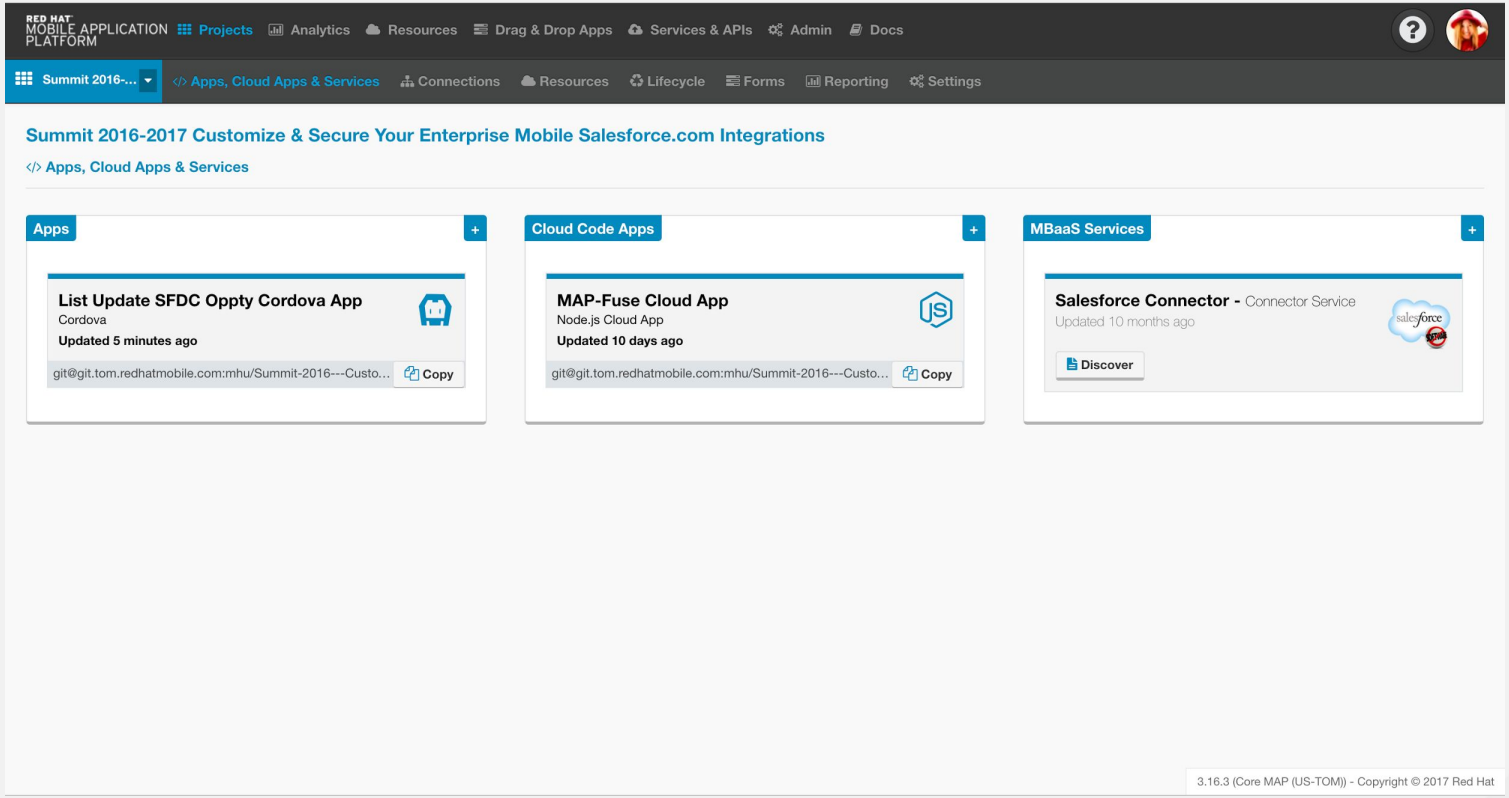
Red Hat Mobile Components



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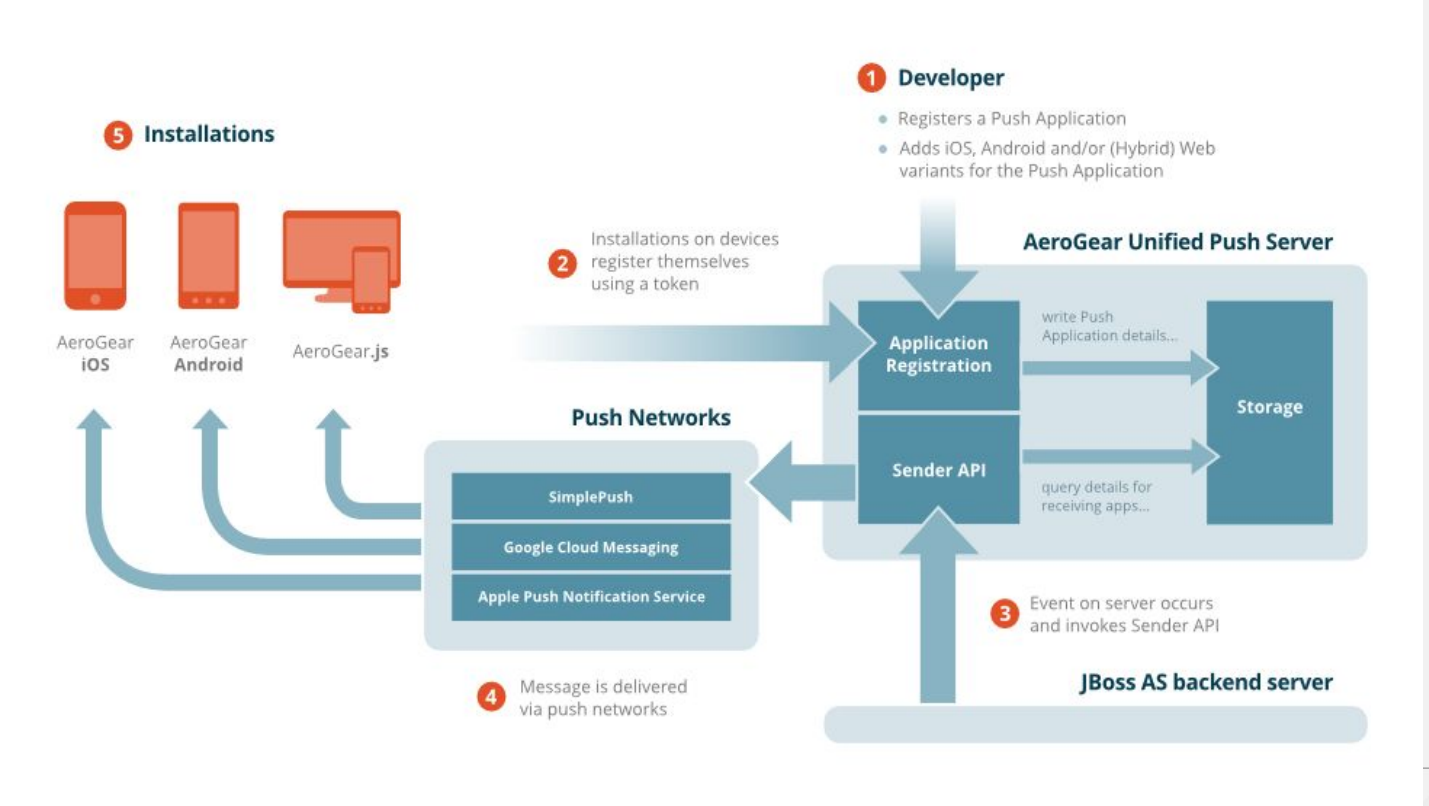
AeroGear Unified Push Server



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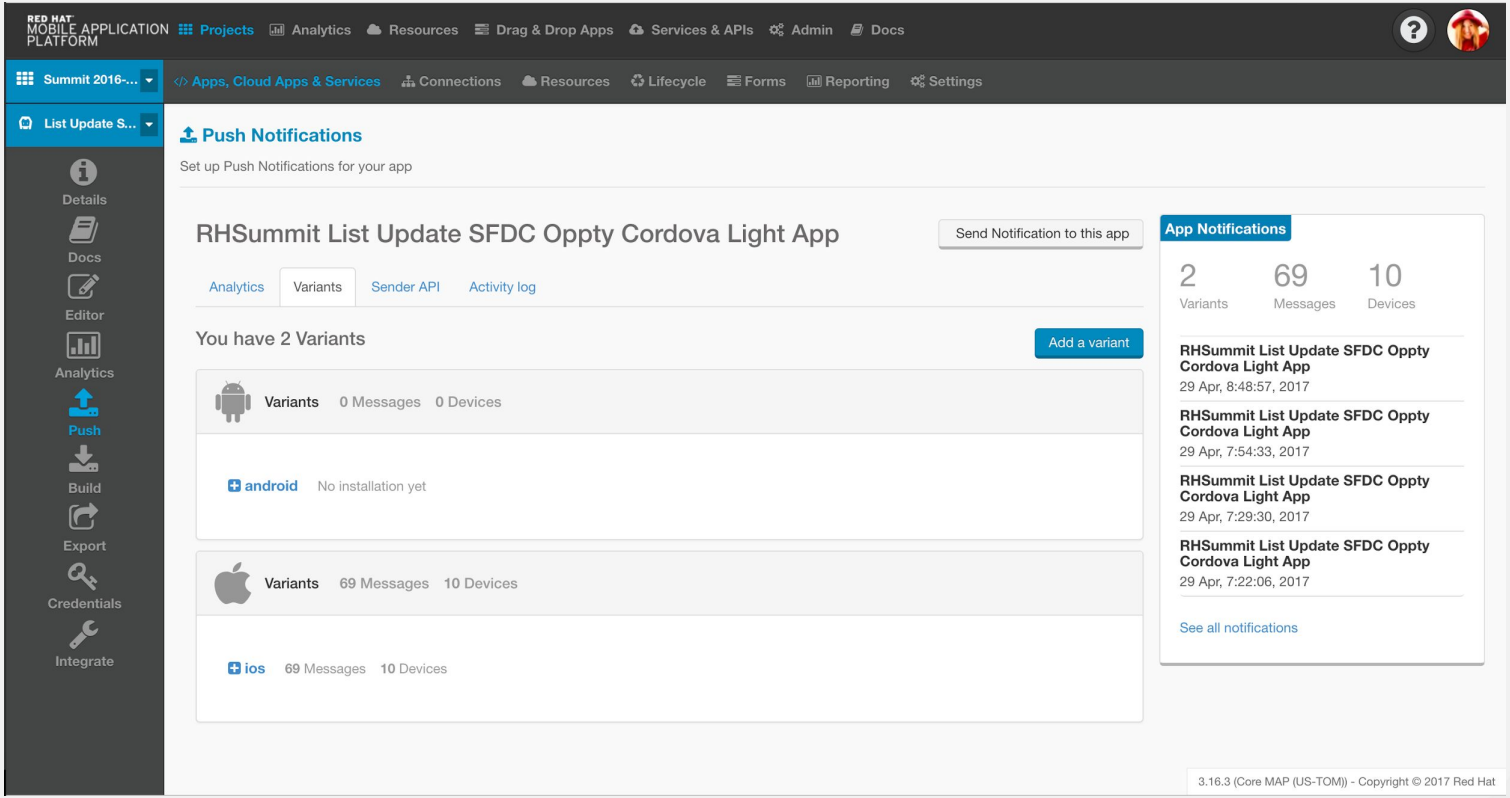
Red Hat Mobile Unified Push Notifications



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3Scale by Red Hat

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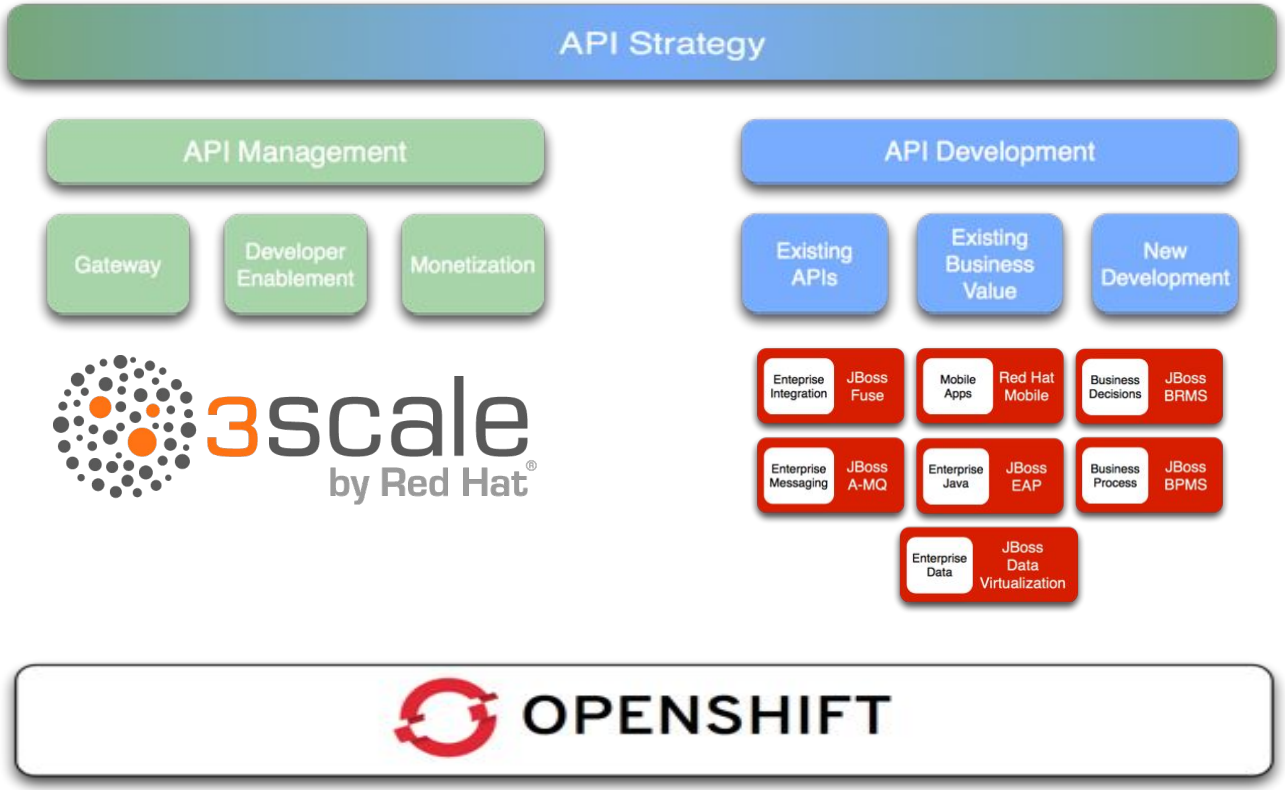
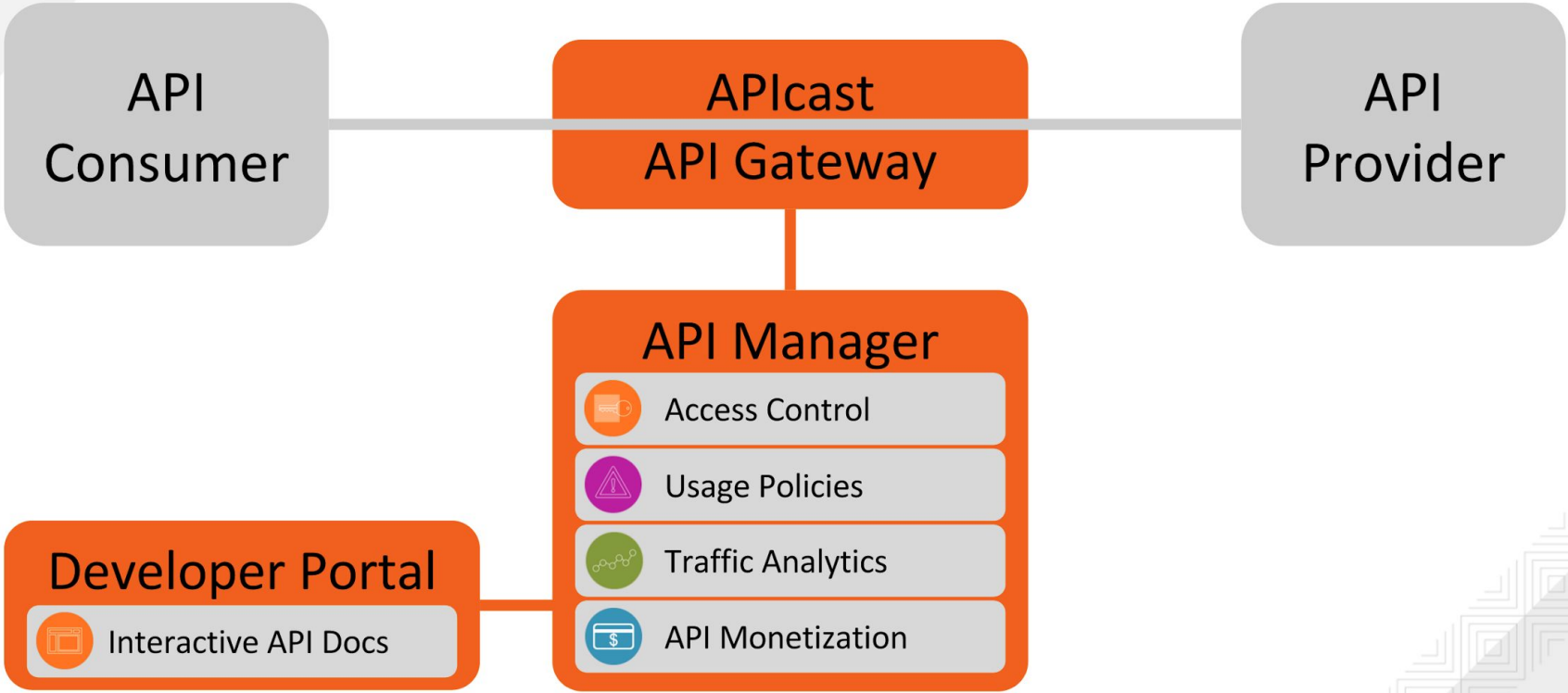
Enabling Your API Strategy



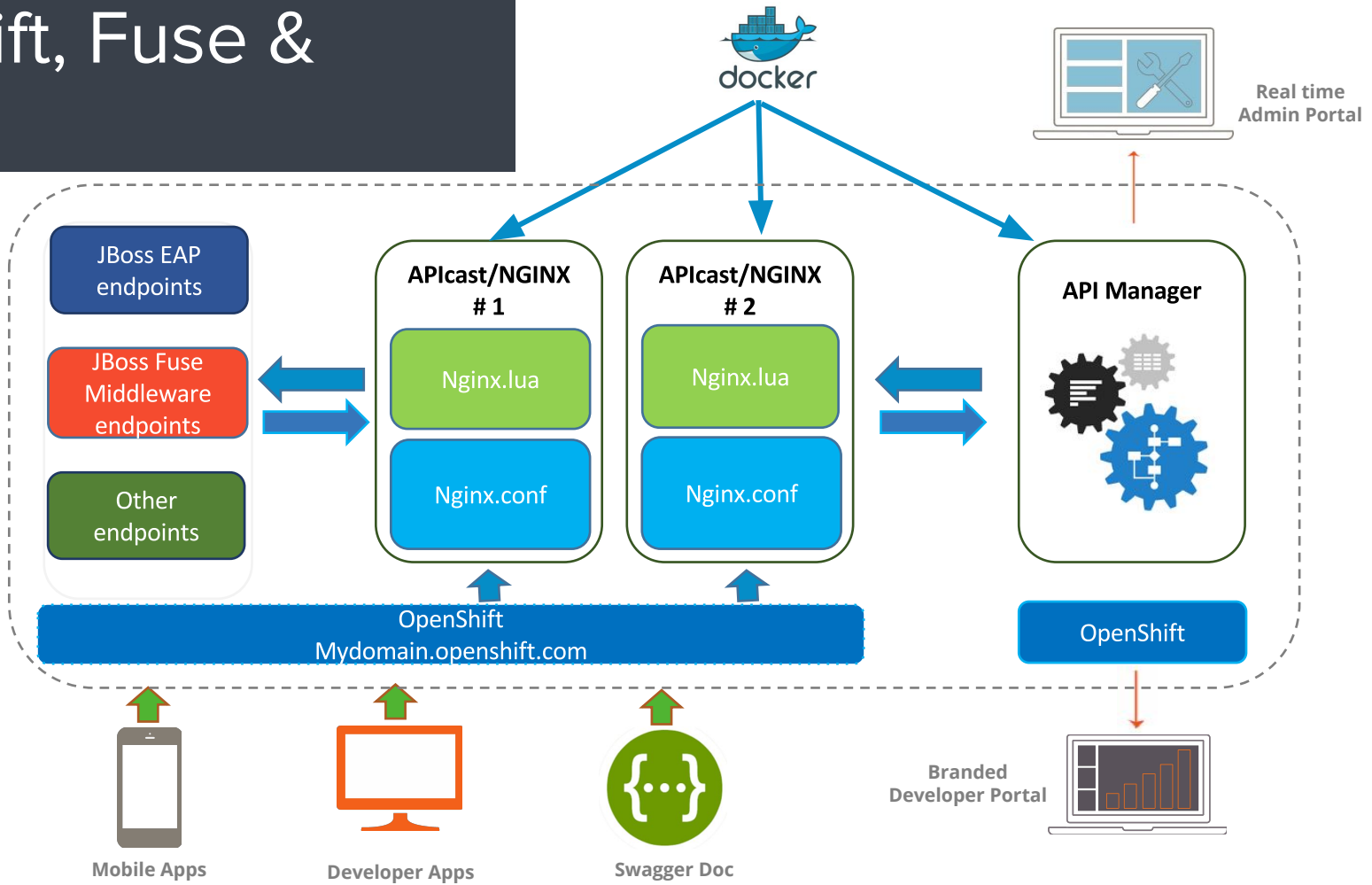
3scale Architecture



OpenShift, Fuse & 3scale

Benefits:

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



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Integrating with Salesforce

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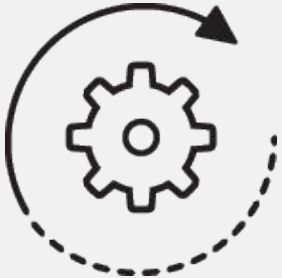
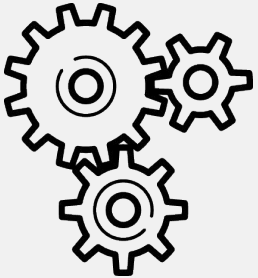
Fuse and Salesforce



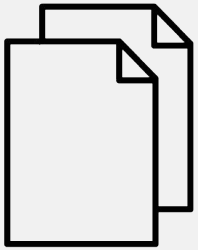
Code generation
Configuration

Built-in Tooling
Drag and drop route
Configure application



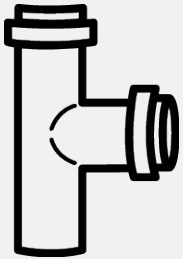
Integrate
Summarize

HR, ERP
Salesforce to
Salesforce
System migration



Enrich
Type Transform

Aggregators
Splits
XML, JSON
Customize data



Proxy
APIs

Monetizing services
Information
customization
Version control

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Applying Agile Integration

Distributed Integration	Container	API
• Lightweight • Pattern Based • Reusable Connectors • Community Sourced	• Cloud native solutions • Lean artifacts, individually deployable • Container based scaling and high availability	• Well defined, re-usable, and well managed end-points • Ecosystem leverage
Flexibility	**Scalability**	**Re-Usability**

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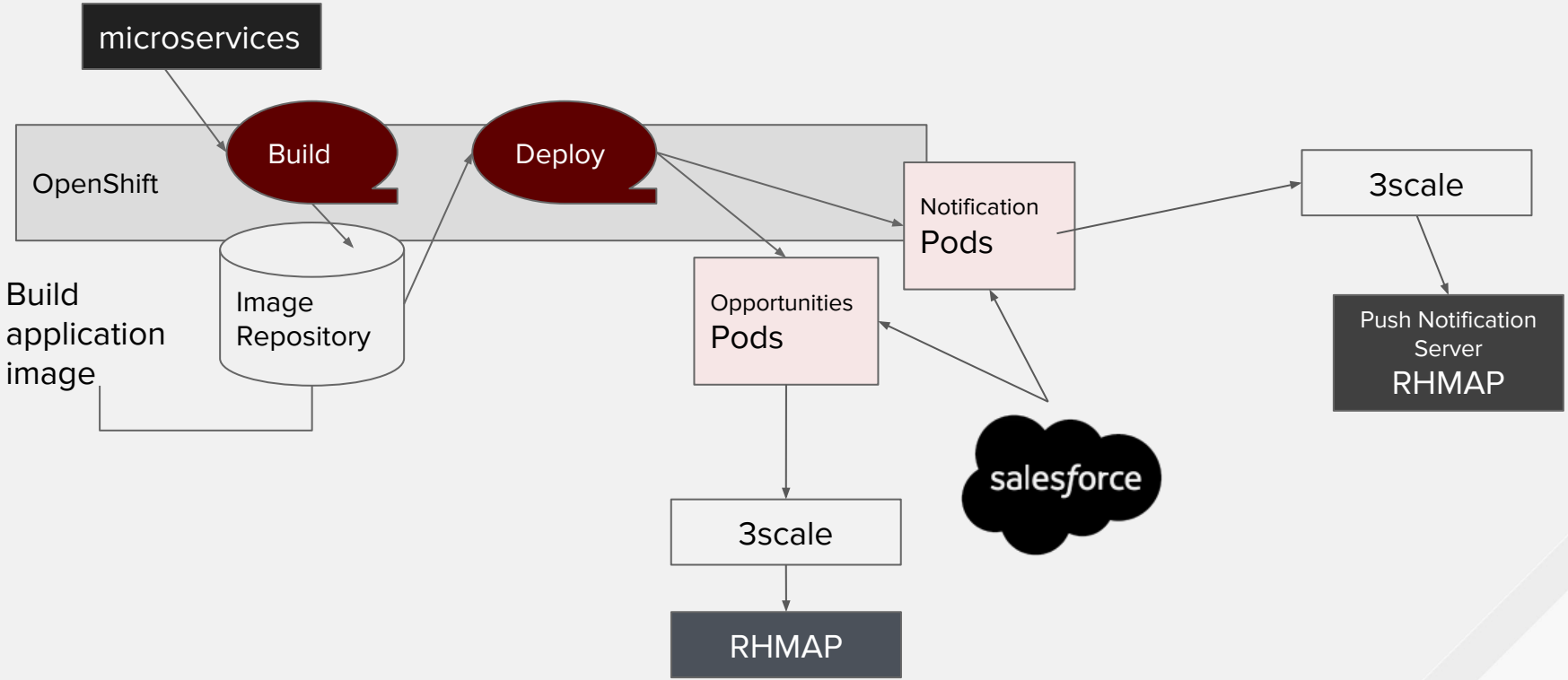
Fuse Integration Architecture



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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?sObjectIdName=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>
```


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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">
```


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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/
```


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Summary

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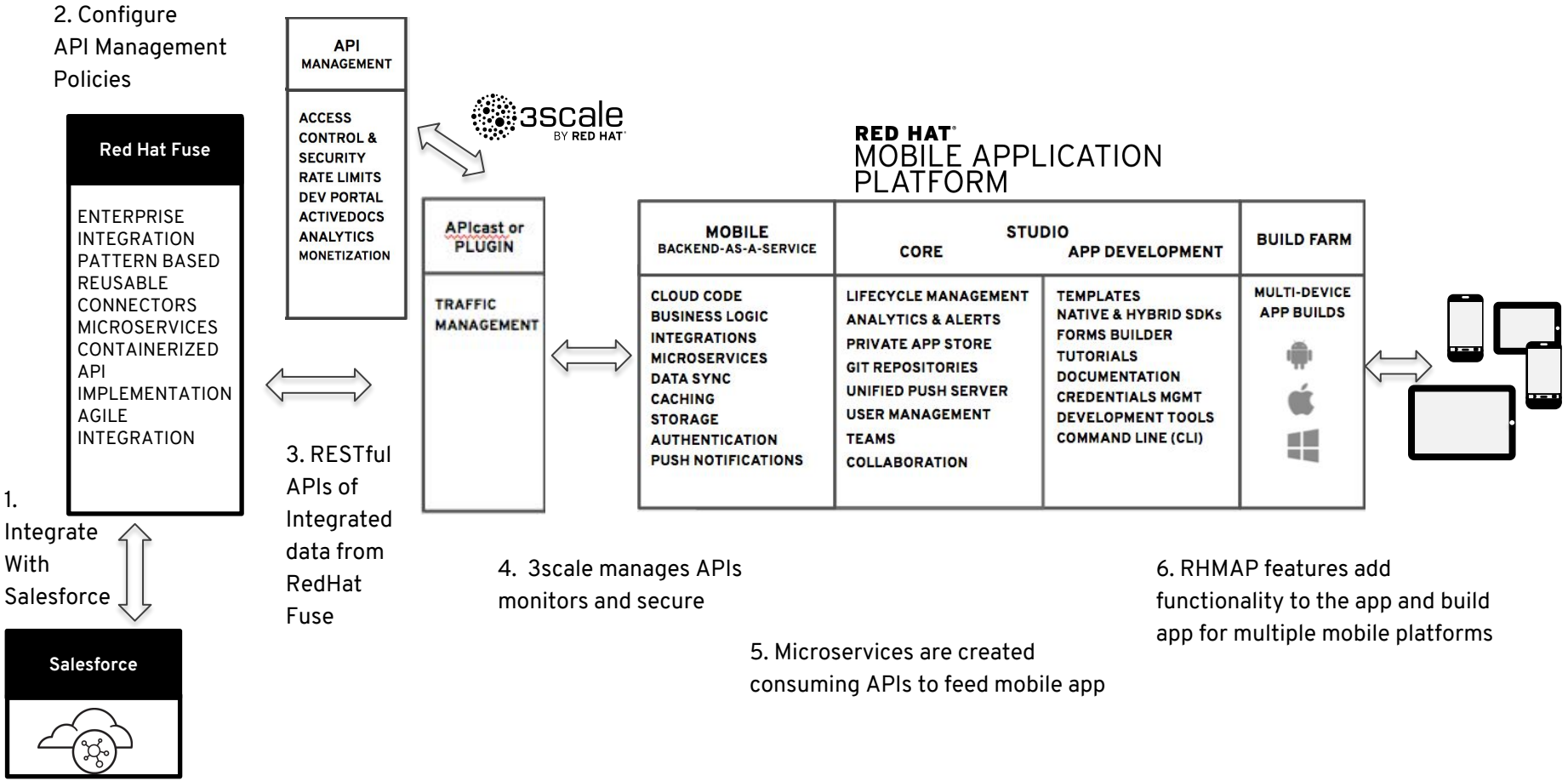
Enterprise Mobile Integration with Salesforce



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

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QUESTIONS?

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Twitter: @tnscorcoran

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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