RED HAT SUMMIT

BOSTON, MA
JUNE 23-26, 2015

Introducing

RED HAT® MOBILE APPLICATION PLATFORM

Cathal McGloin,
VP & General Manager, Mobile Platforms
Javier Perez,
Director of Product Management and Global Consulting

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AGENDA

1. The Mobile Buzz
2. Why a Mobile Application Platform
3. Red Hat Mobile – Value Proposition
4. Product Deep Dive
   - Platform Features
   - How to use the Platform
   - Deployment Models
   - Architecture
5. Case Studies
6. Community

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Who are we?

Red Hat Mobile provides a Mobile Application Platform that accelerates the development of mobile projects by facilitating collaborative app development and secure backend integration in the cloud and on premise.

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The Mobile Buzz

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The deal adds better mobile capabilities to the JBoss Middleware portfolio

By Mikael Ricknäs FOLLOW

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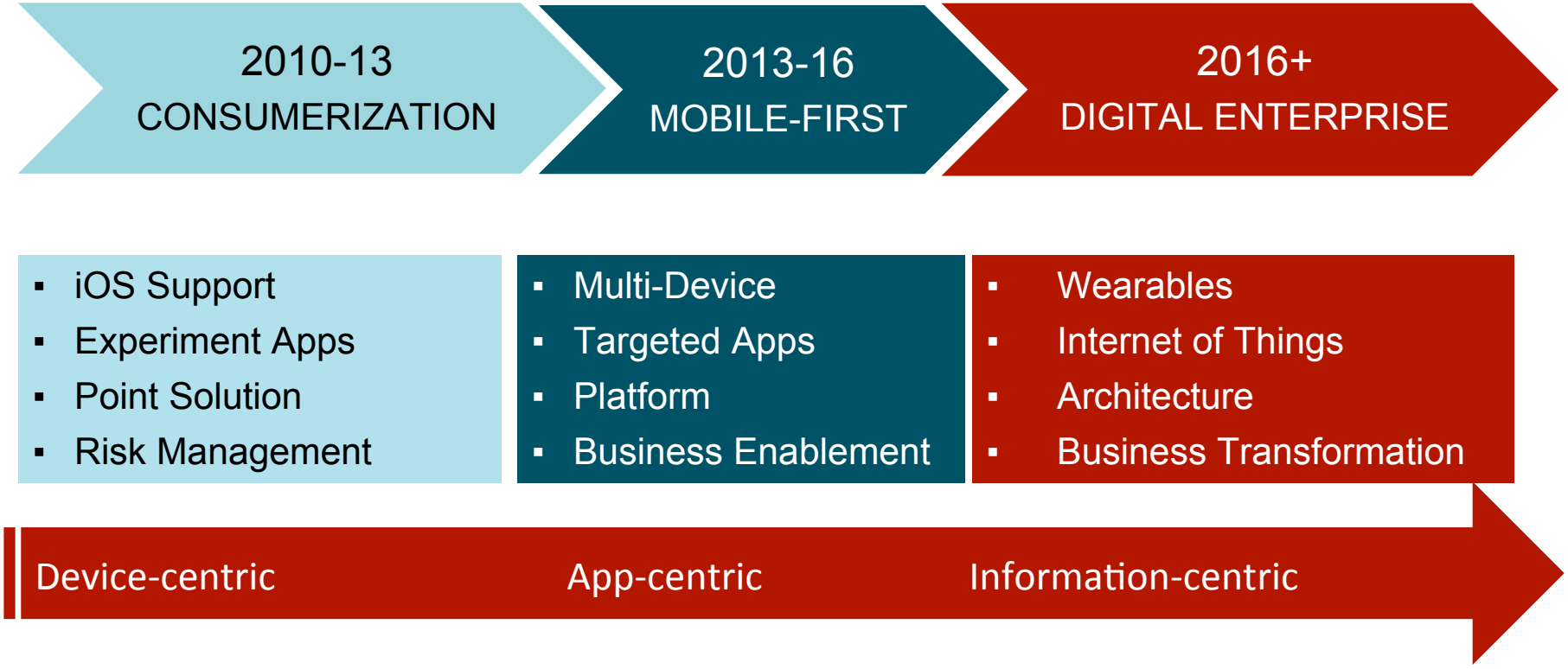
Driving Digital Transformation



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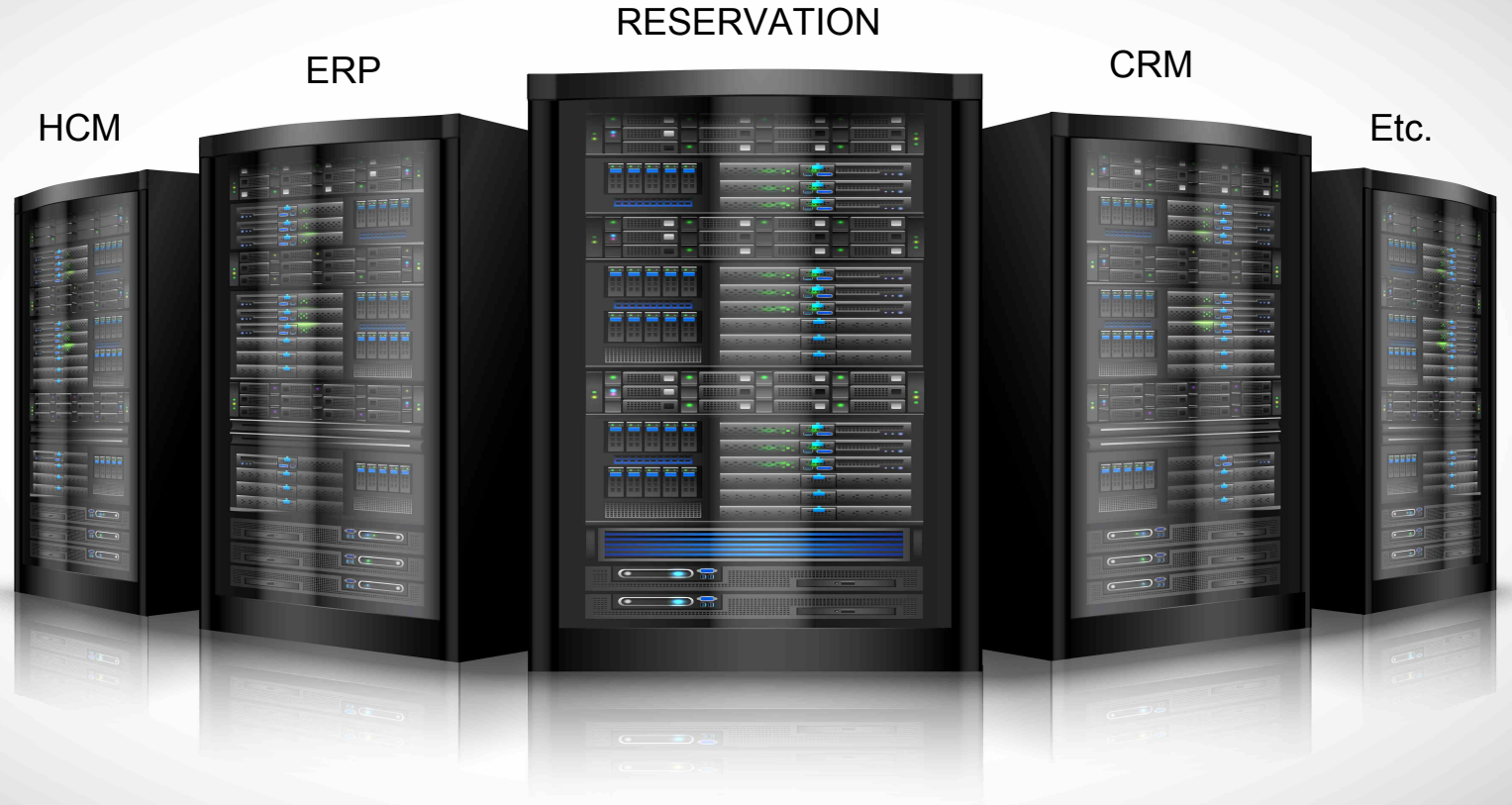
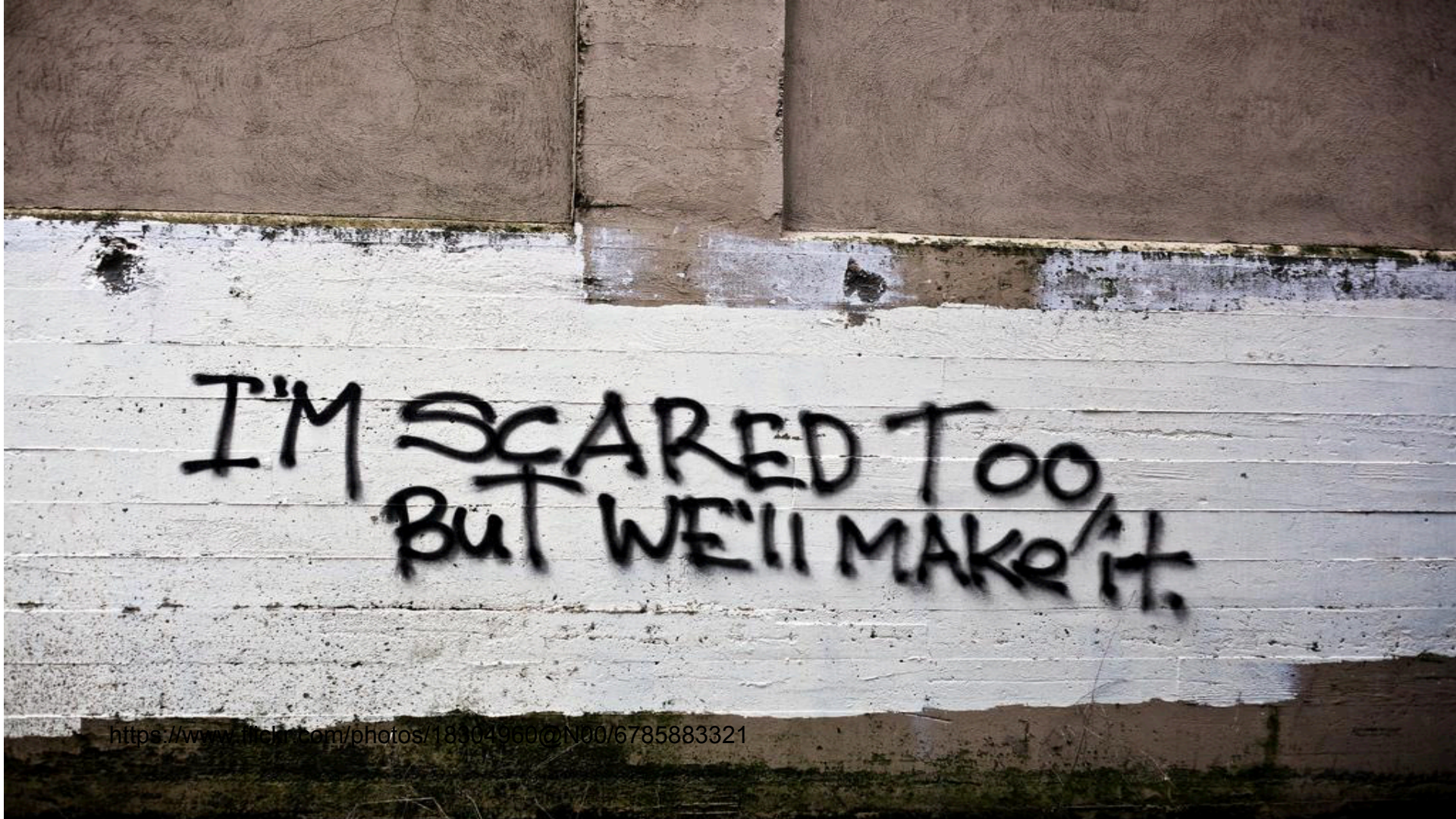
From Systems of Record



To Systems of Engagement



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IT Mobile Challenges

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What is a Mobile Application Platform?

- Shared platform or service to develop and run mobile solutions
- Brings client-side and server-side together
- Facilitate collaboration on launching mobile initiatives across enterprise
- Repository of APIs and services for discovery
- Offers templates and code re-use
- Centralized control of security & access
- Lifecycle management and Reporting

Transform
Business

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Our Vision

Leading Mobile Application Platform based on Open Source

- Developer choice
- Most powerful & scalable architecture
- mBaaS & Enterprise integration
- Mobile PaaS – evolving to industry standards

- Red Hat the only company with all pieces
- Part of core IT infrastructure
- Catalyst for agility and change

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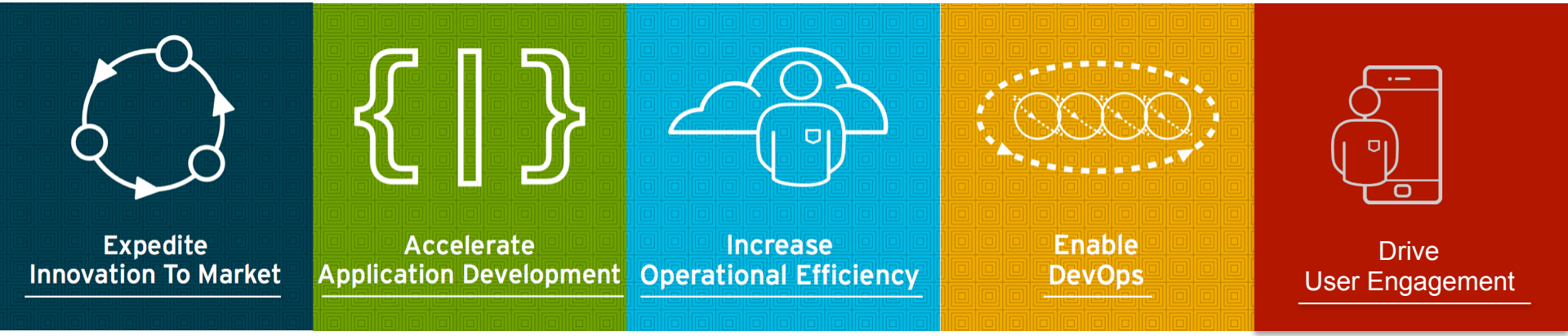
Value of Mobile Application Platform



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The new world of Enterprise Mobility

Open Technologies

Flexible Development

REST APIs

JavaScript & Node.js

Mobile Backend-as-a-Service

Continuous Dev & Deploy

Collaboration

Agility

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- Driving innovation for business
- Enterprise-ready industry mobile apps for cross platform
- Samsung's enterprise support for mission critical systems
- Red Hat's Mobile Application Platform for enterprises to build innovative solutions

RED HAT® MOBILE APPLICATION PLATFORM

PRODUCT FEATURES

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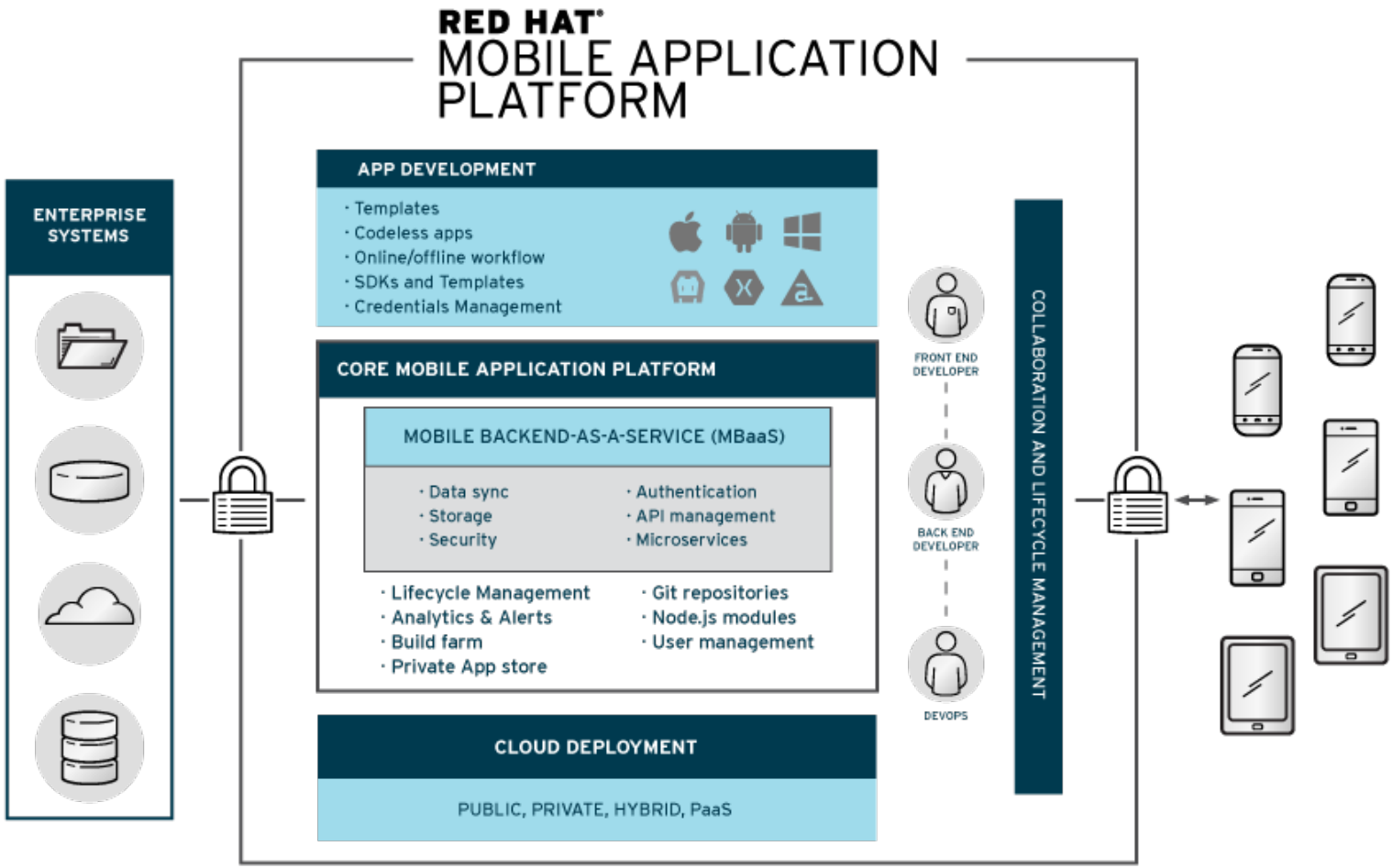
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MOBILE APPLICATION PLATFORM
ENTERPRISE SYSTEMS
APP DEVELOPMENT
· Templates
· Codeless apps
· Online/offline workflow
· SDKs and Templates
· Credentials Management
CORE MOBILE APPLICATION PLATFORM
MOBILE BACKEND-AS-A-SERVICE (MBaaS)
· Data sync
· Storage
· Security
· Authentication
· API management
· Microservices
· Lifecycle Management
· Analytics & Alerts
· Build farm
· Private App store
· Git repositories
· Node.js modules
· User management
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FRONT END DEVELOPER
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DEVOPS
COLLABORATION AND LIFECYCLE MANAGEMENT

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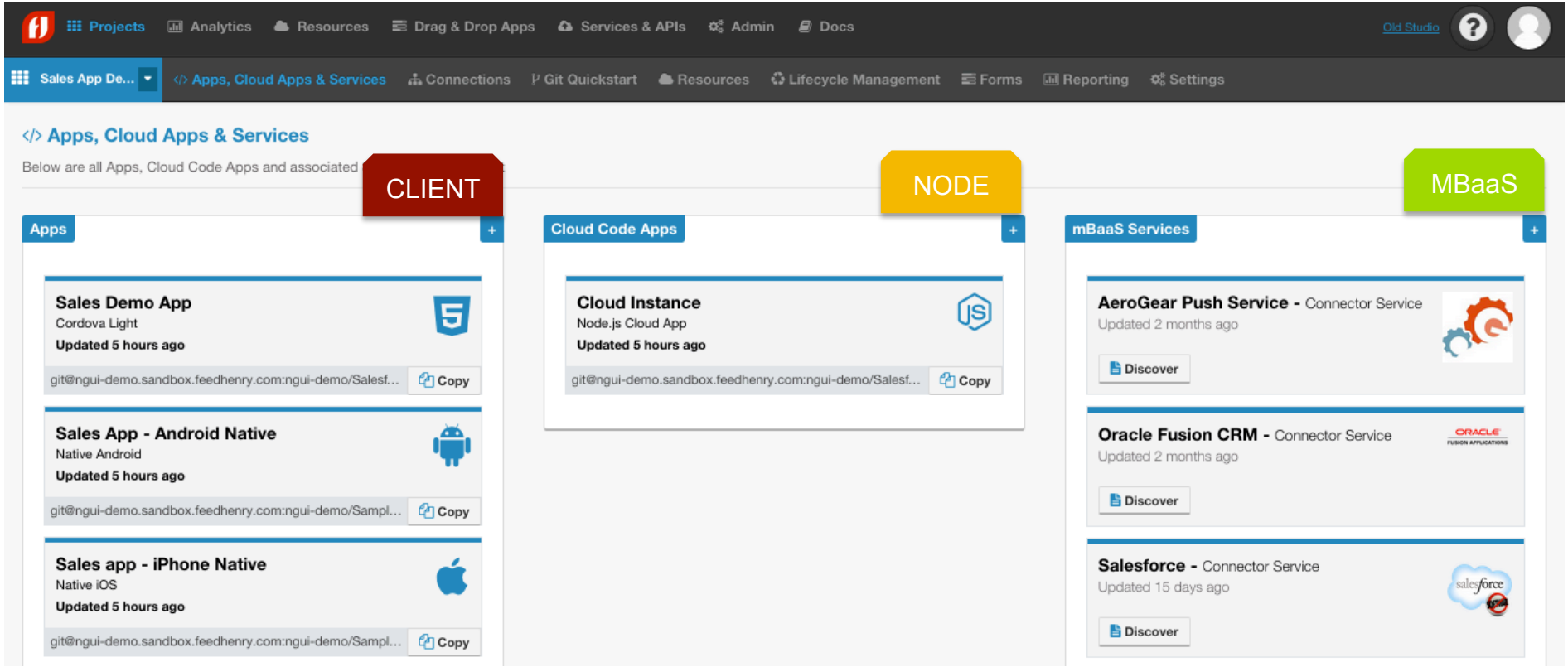
User Interface



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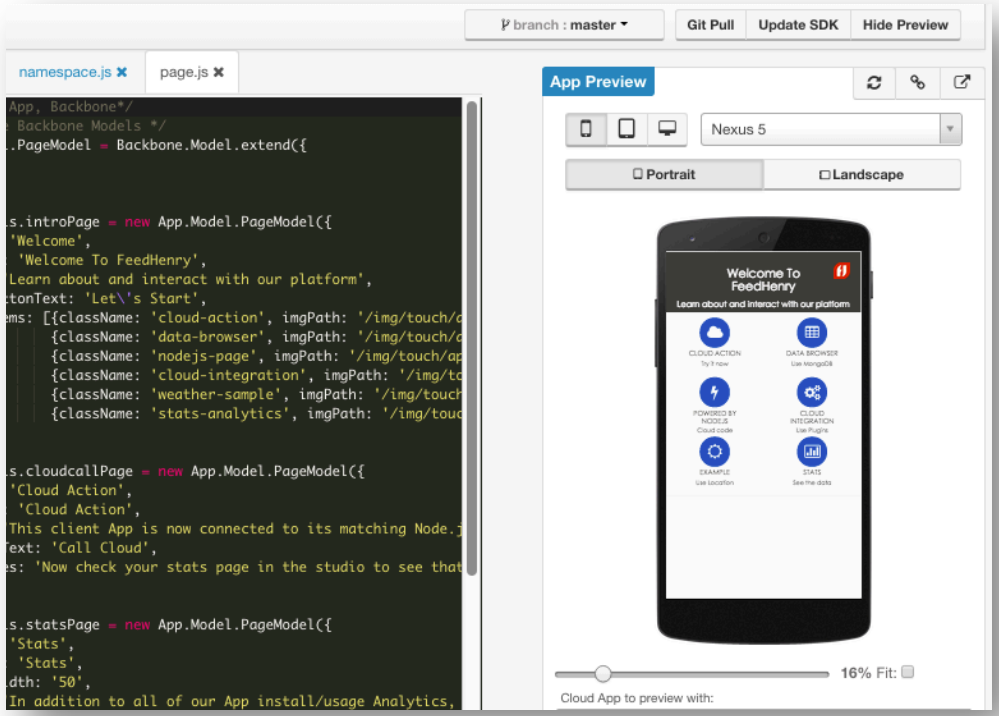
CLIENT

Client-side App Development



- Online/Local development
- Command line access
- HTML5, Hybrid & Native
- Cloud Build Farm
- Git SCM
- HTML5 Form App Wizard
- Credentials Management

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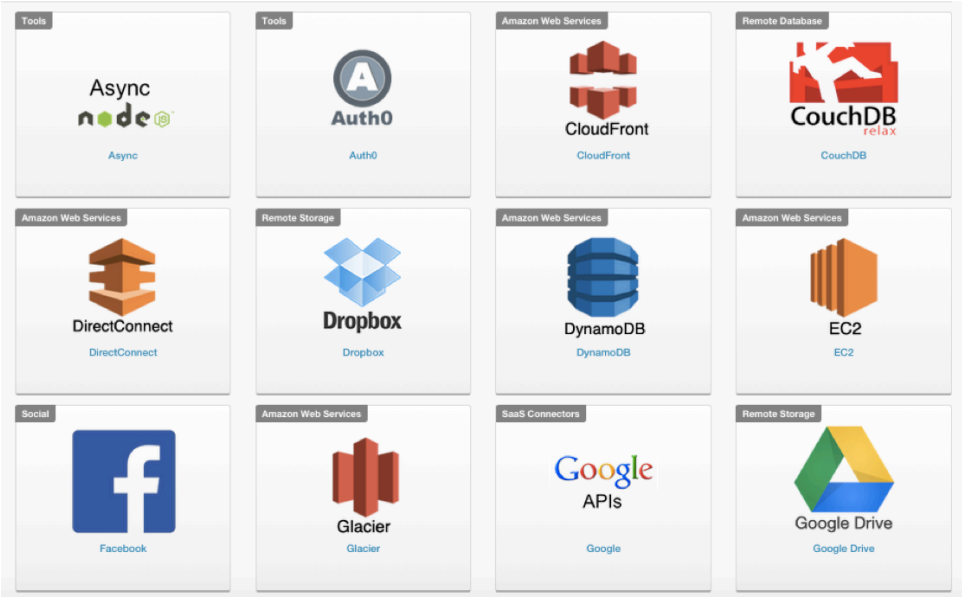
NODE

Why Node.js?

- Server-side JavaScript for building fast, scalable network applications.
- Perfect for data-intensive real-time applications that run across distributed devices.
- Lightweight integration to backends
- Event-driven, non-blocking, I/O model.
- Fast-growing Community of modules.



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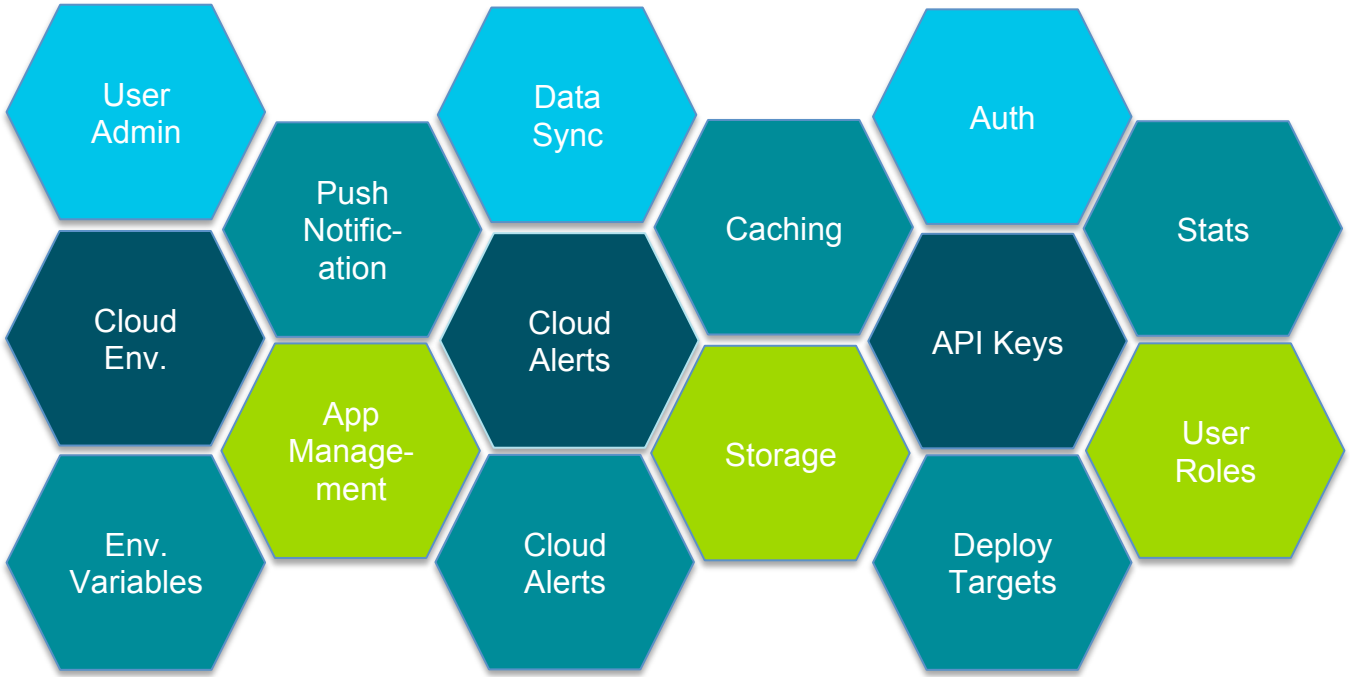
MBaaS

Mobile Backend-as-a-Service (MBaaS)



A set of server-side functions, exposed as Restful APIs and optimized for mobile, that a client side developer uses for common mobile features

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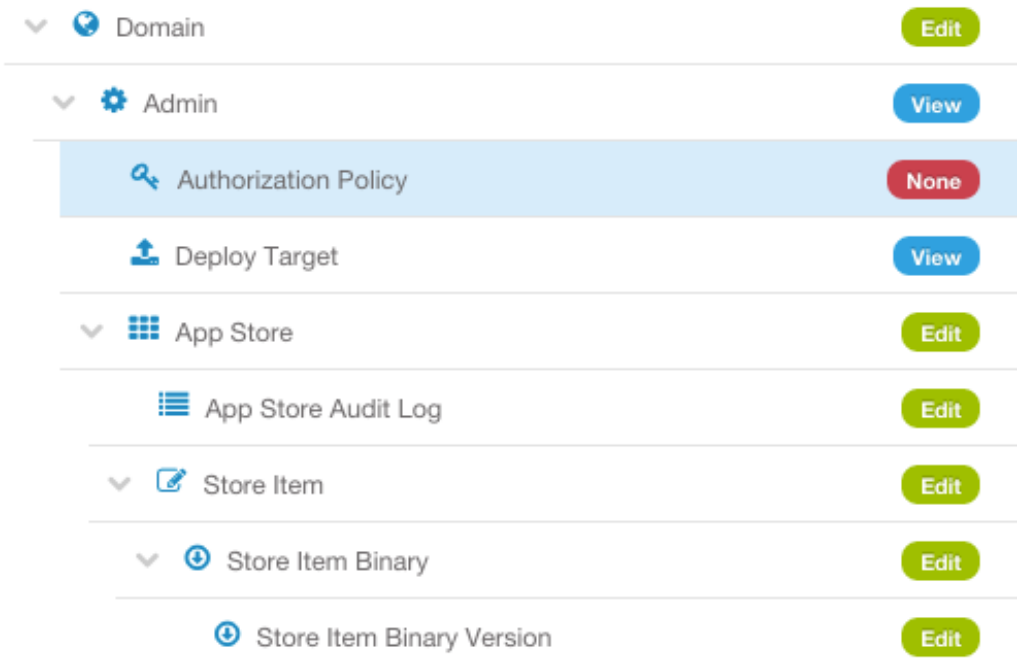
Other Platform Features

- Team-based Collaboration
- Microservices creation & discovery
- Role-based access
- Lifecycle management
- Reporting & Analytics
- Mobile App Management



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How to use the Platform

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MBaaS

Building MBaaS Services

backend developer

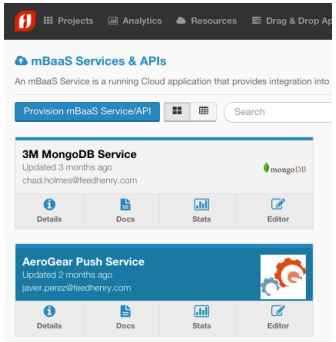
IDENTIFY INTEGRATION POINTS → BUILD YOUR NODE.JS MODULES → DEFINE IT AS RE-USABLE SERVICE → BUILD YOUR APP WITH AVAILABLE SERVICES

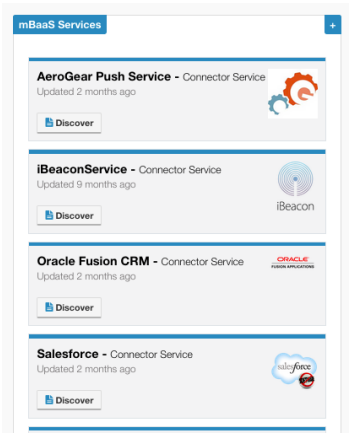
JSON/REST
XML/SOAP
OData

```
var sender = require('unifiedpush-node-sender');
var express = require('express');
var bodyParser = require('body-parser');
var cors = require('cors');
var optval = require('optval');
var util = require('util');
var winston = require('winston')
var requestId = require('connect-requestid');

validateEnvVar('AEROGEAR_SERVER_URL');
validateEnvVar('AEROGEAR_APPLICATION_ID');
validateEnvVar('AEROGEAR_MASTER_SECRET');

var settings = {
  serverUrl: process.env.AEROGEAR_SERVER_URL,
  applicationID: process.env.AEROGEAR_APPLICATIO
  masterSecret: process.env.AEROGEAR_MASTER_SECR
  ttl: parseInt(optval(process.env.AEROGEAR_TTL,
};
```





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CLIENT

Building the Client-side App

CHOOSE TOOLKITS, DOWNLOAD SDKs

DISCOVER APIs, DEFINE FUNCTIONALITY

CODE MY APP, TEST WITH PLATFORM APIs

BUILD BINARY USING MY STORED CREDENTIALS

DEPLOY TO PUBLIC OR PRIVATE APP STORE

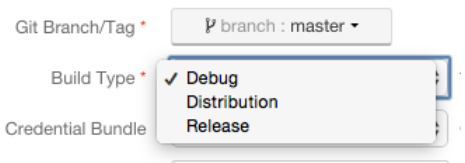
frontend developer

Cloud Build Farm

CHOOSE DEVICE PLATFORM

BUILD FOR DEBUG OR DISTRIBUTION

BINARY



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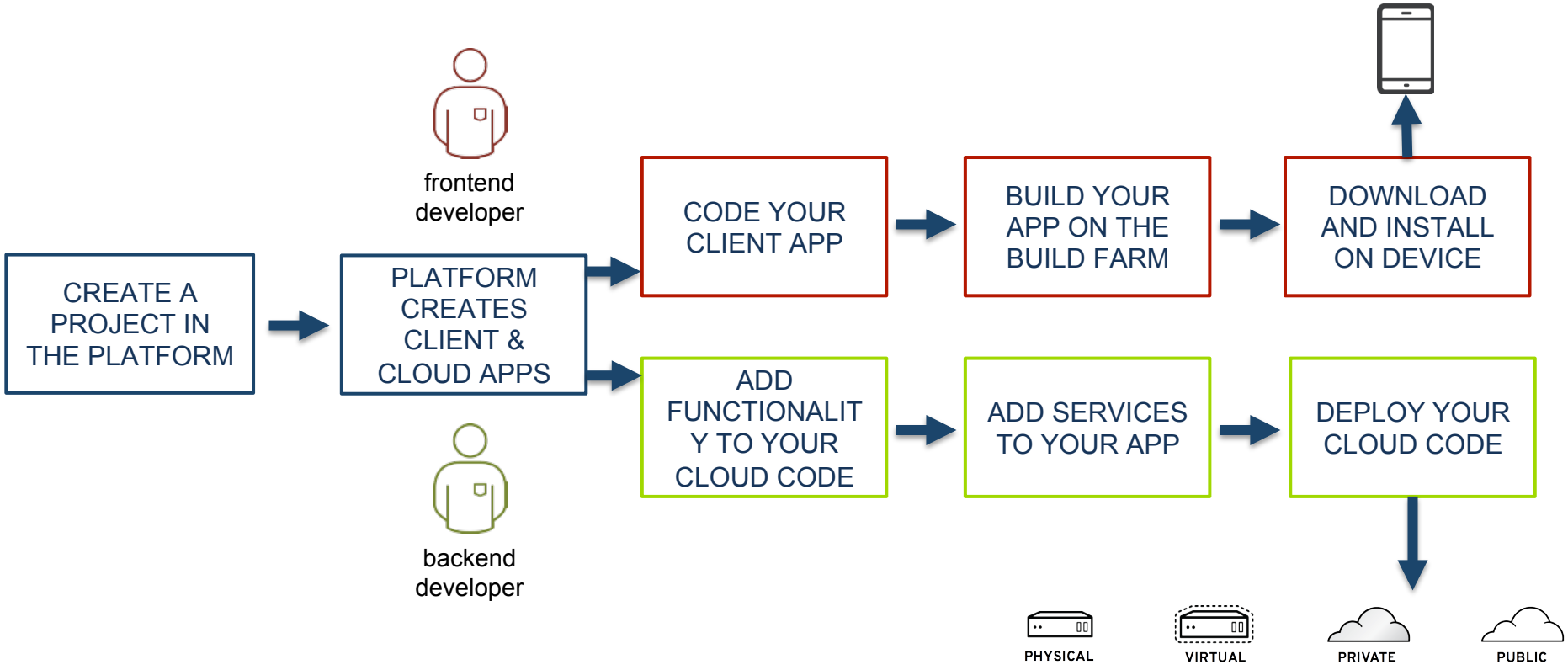
Full process flow to build an app



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Architecture Overview

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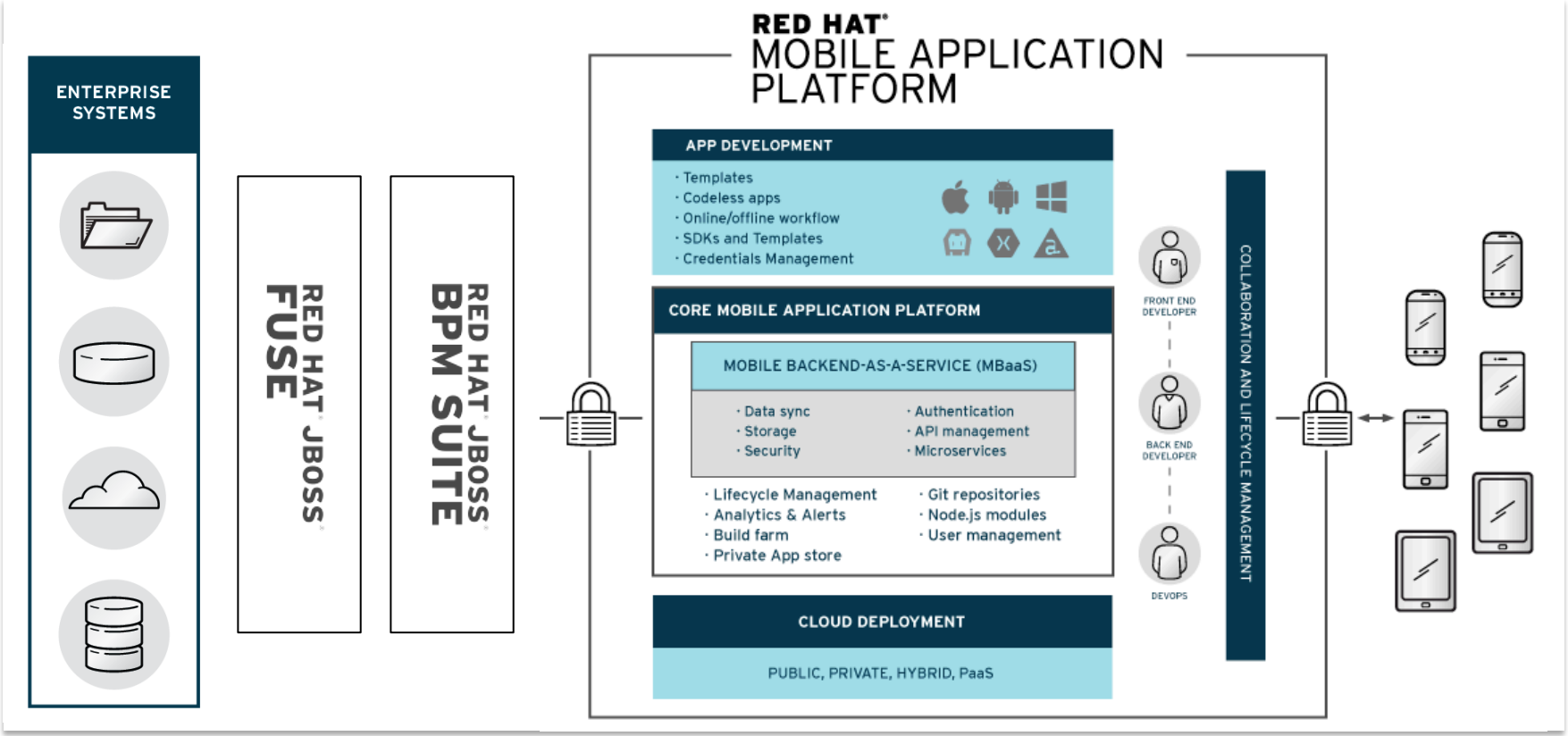
Red Hat Mobile Application Platform and JBoss



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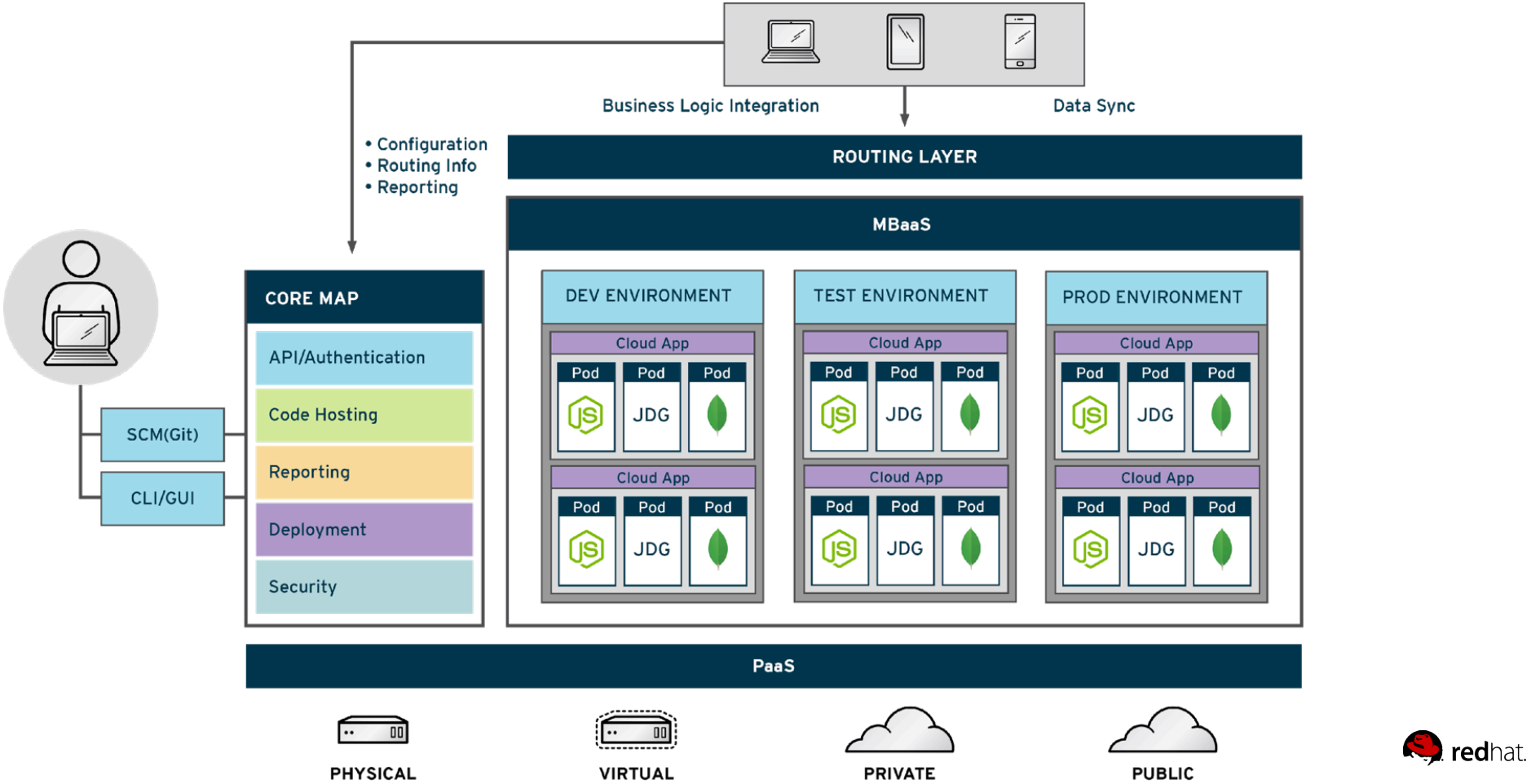
Containerized Architecture



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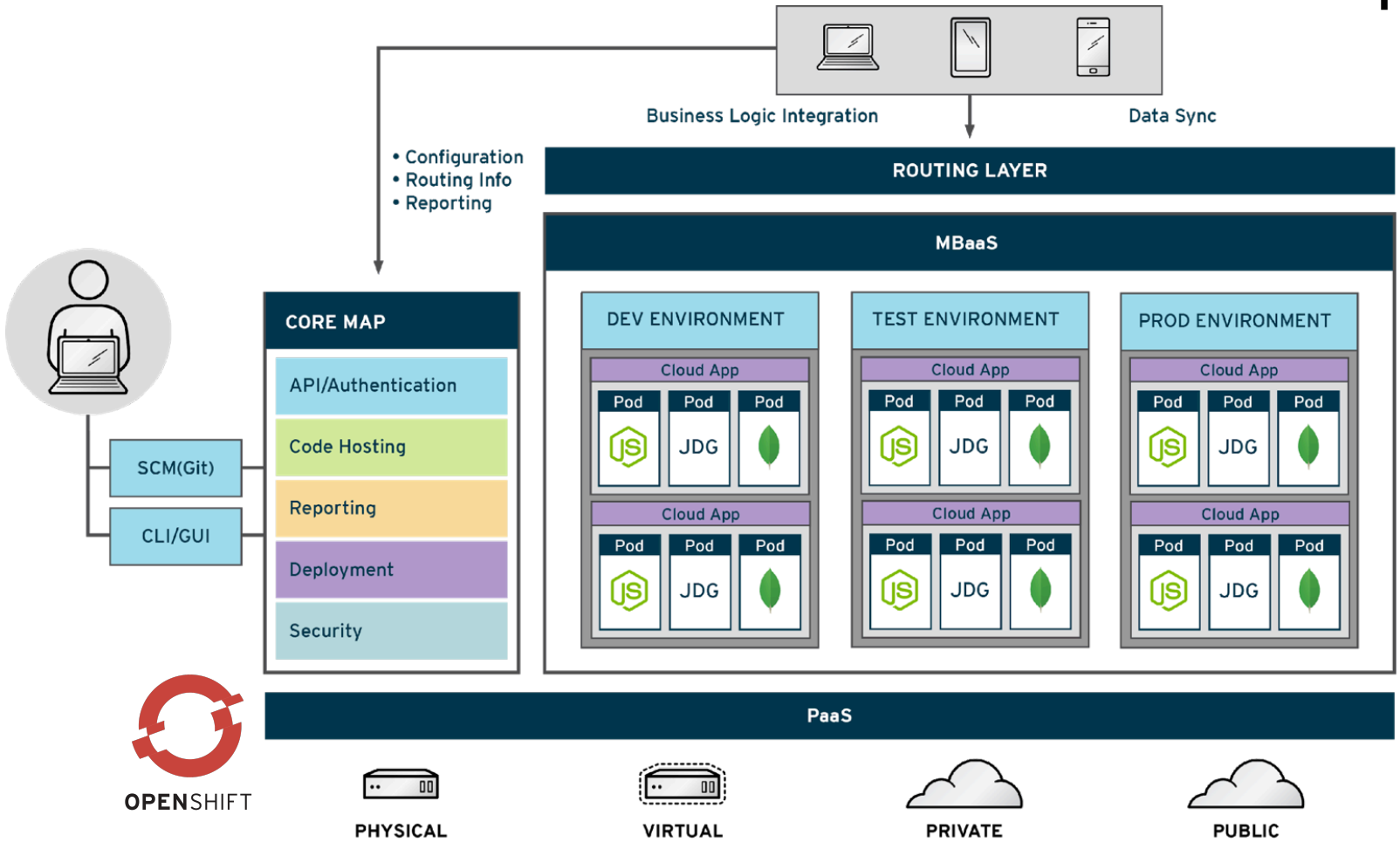
Containerized Architecture on Openshift



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Client Case Studies
Open Source Project

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The Benefits to our Customers

- Open, Scalable Architecture for Company-wide Mobile Projects
- Centralized Security, Policy Management and Access Control
- Facilitates Collaboration across distributed teams
- Bring your own tools and frameworks reduce training costs
- Fast Prototyping with templates and Drag & Drop forms
- Re-use of micro-services to increase developer productivity
- Supports Fast IT - agile app development and deployment

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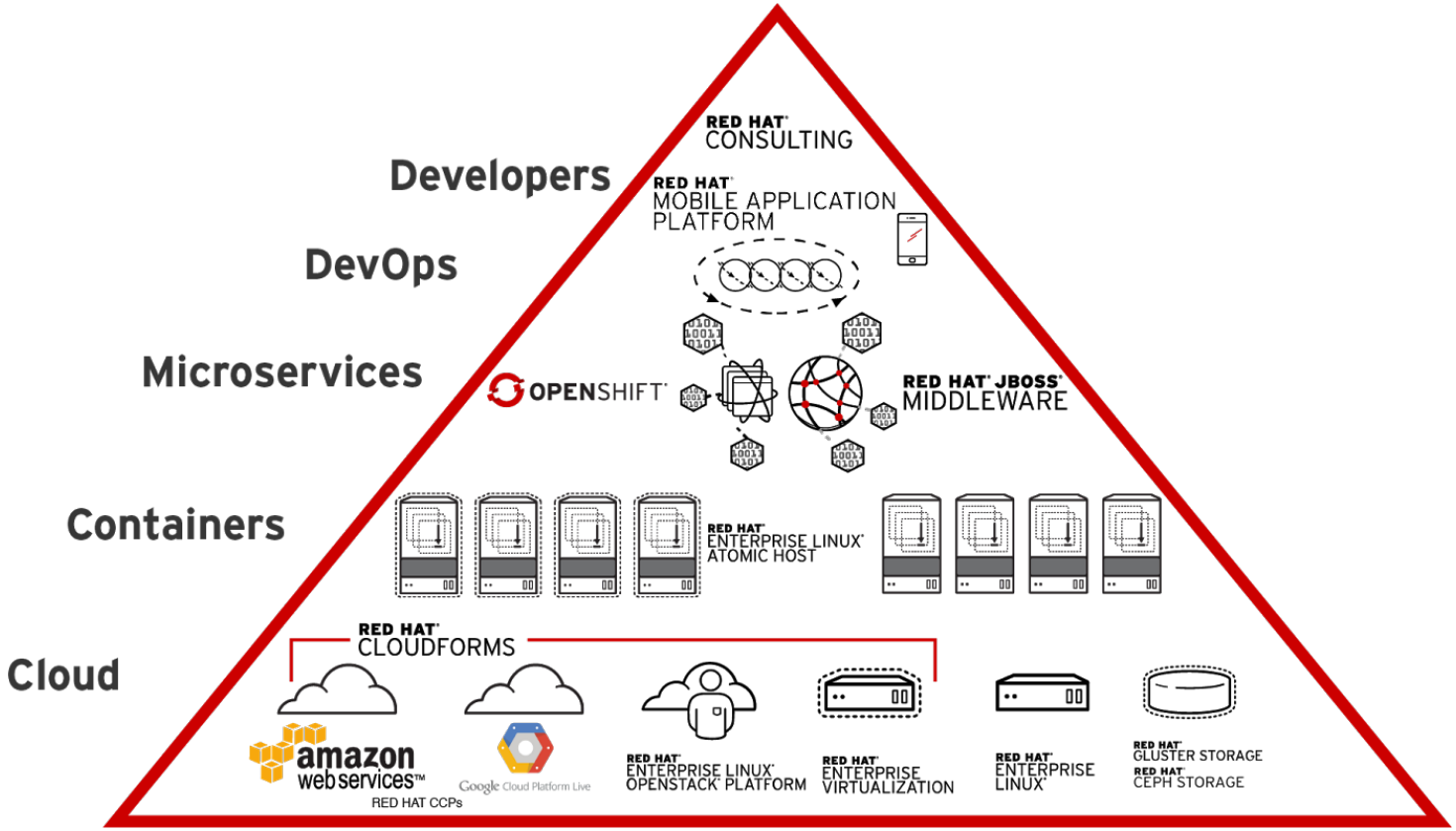
Transforming Business with Red Hat



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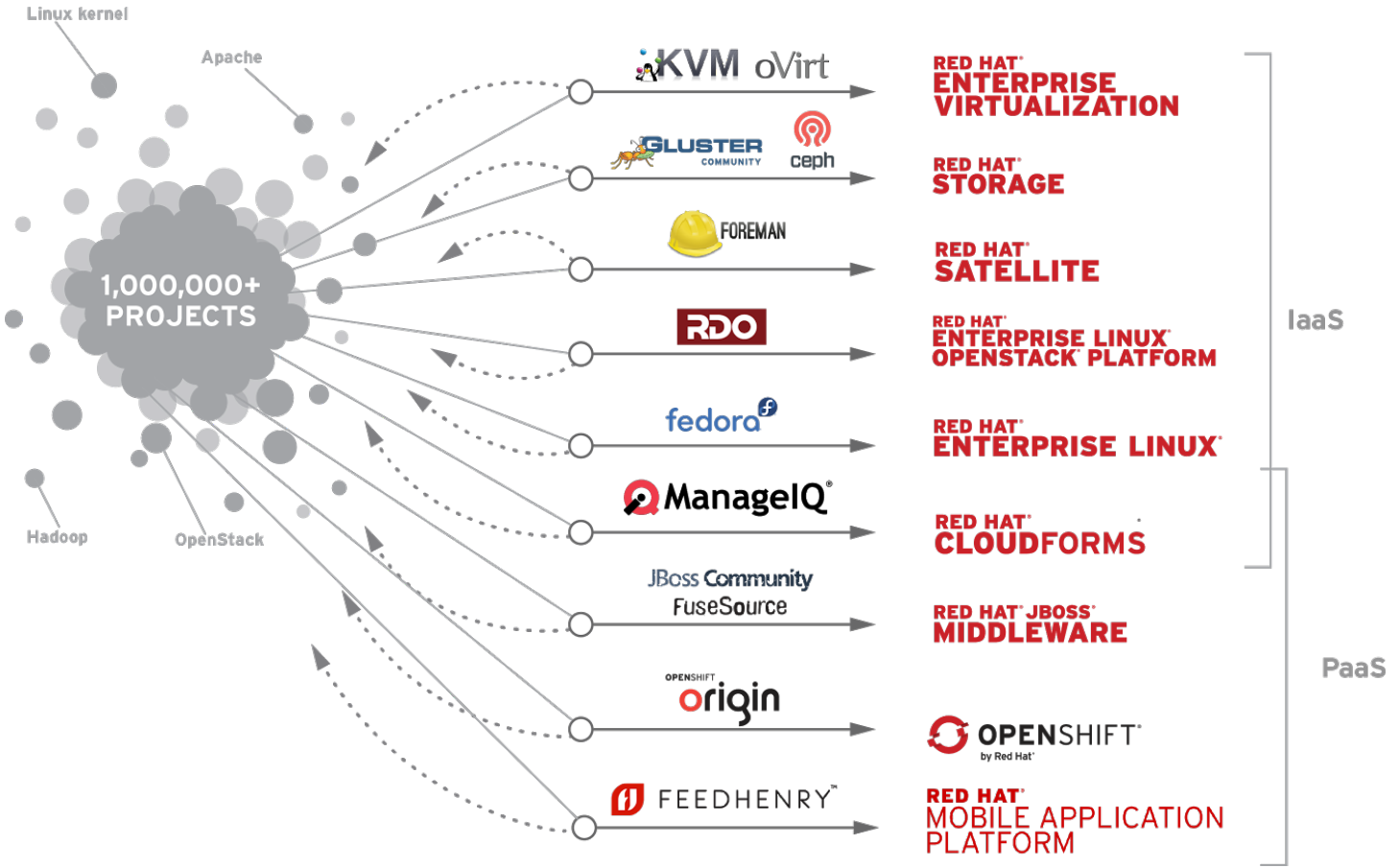
Mobile and Red Hat Community



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JULY 23: Los Angeles
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