

**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

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

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.



RED HAT®
MOBILE

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Enterprise **CRUNCH NETWORK**

The Next Billion-Dollar Market Opportunity Is Mobile Enterprise

Posted Mar 30, 2015 by [Kevin Spain \(@kevinspain\)](#)

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Doorman Raises \$1.5 Million To Eliminate Missed Package Deliveries [2 days ago](#)

The Mobile Buzz

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Dish and T-Mobile Are in Merger Talks Chris Sacca on 'What Twitter Can Be' Apple Watches Will Go on Sale in Stores in June Spotify

TECH

Facebook Earnings Rise on Mobile Growth

Social Network Continues to Spend Aggressively with Expenses Up 87%

FRONT PAGE BUSINESS SMALL BIZ MEDIA SCIENCE GREEN COMEDY ARTS CODE **HUFFPOST LIVE** ALL SECTIONS

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NEWS

Red Hat acquires FeedHenry to get mobile app chops

The deal adds better mobile capabilities to the JBoss Middleware portfolio

By Mikael Ricknäs [FOLLOW](#)

IDG News Service | Sep 18, 2014 12:52 PM PT

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Red Hat wants a piece of the enterprise mobile app market, so it has acquired Irish company FeedHenry for

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Red Hat formulates a plan for mobile apps

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Why Wait to Connect with What Matters

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Mobile Is Eating the Business World, but Where Are All the Great Business Apps?

Posted: 06/02/2015 8:23 pm EDT | Updated: 06/02/2015 9:59 pm EDT



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Driving Digital Transformation

2010-13
CONSUMERIZATION

2013-16
MOBILE-FIRST

2016+
DIGITAL ENTERPRISE

- iOS Support
- Experiment Apps
- Point Solution
- Risk Management

- Multi-Device
- Targeted Apps
- Platform
- Business Enablement

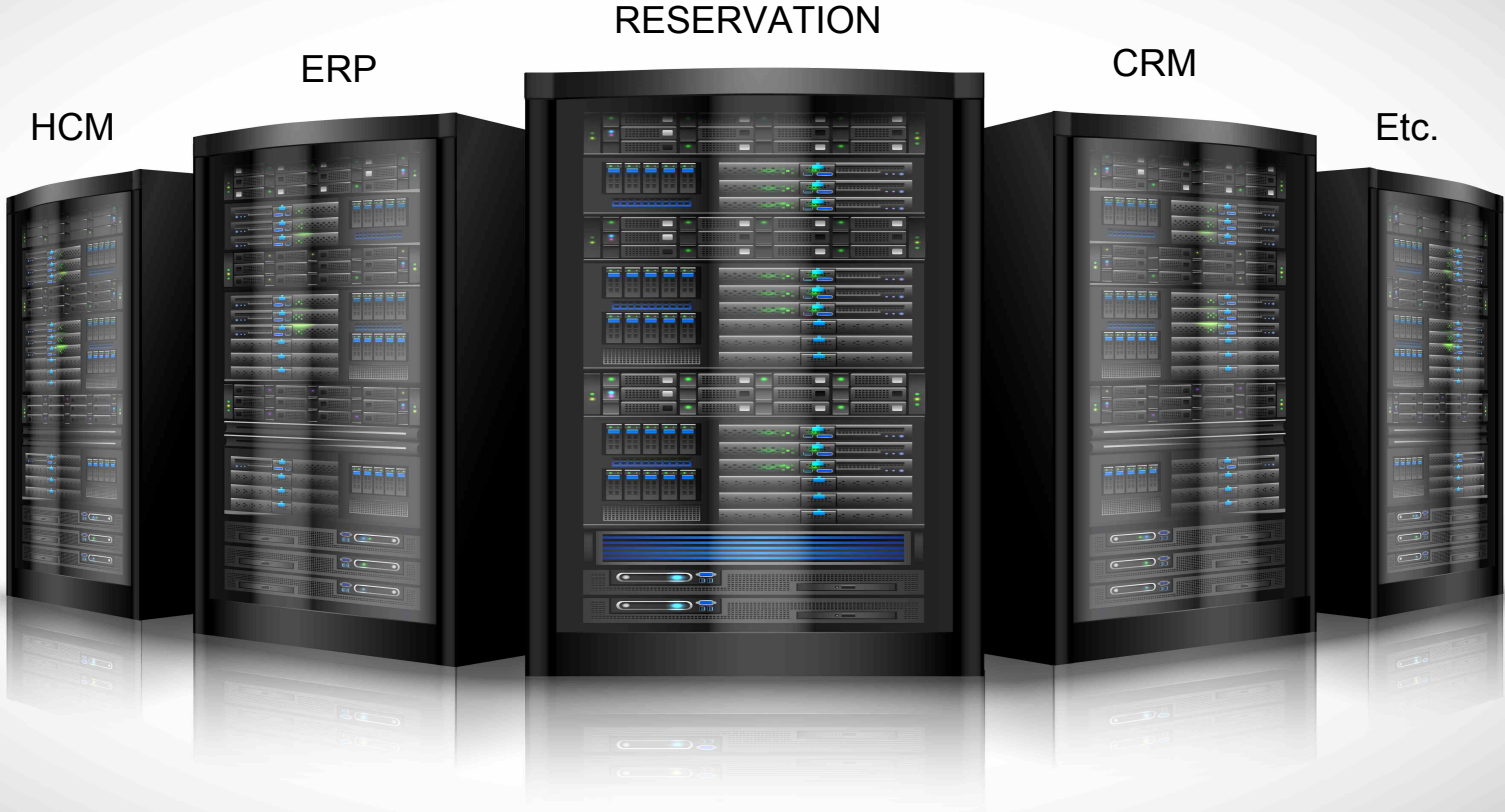
- Wearables
- Internet of Things
- Architecture
- Business Transformation

Device-centric

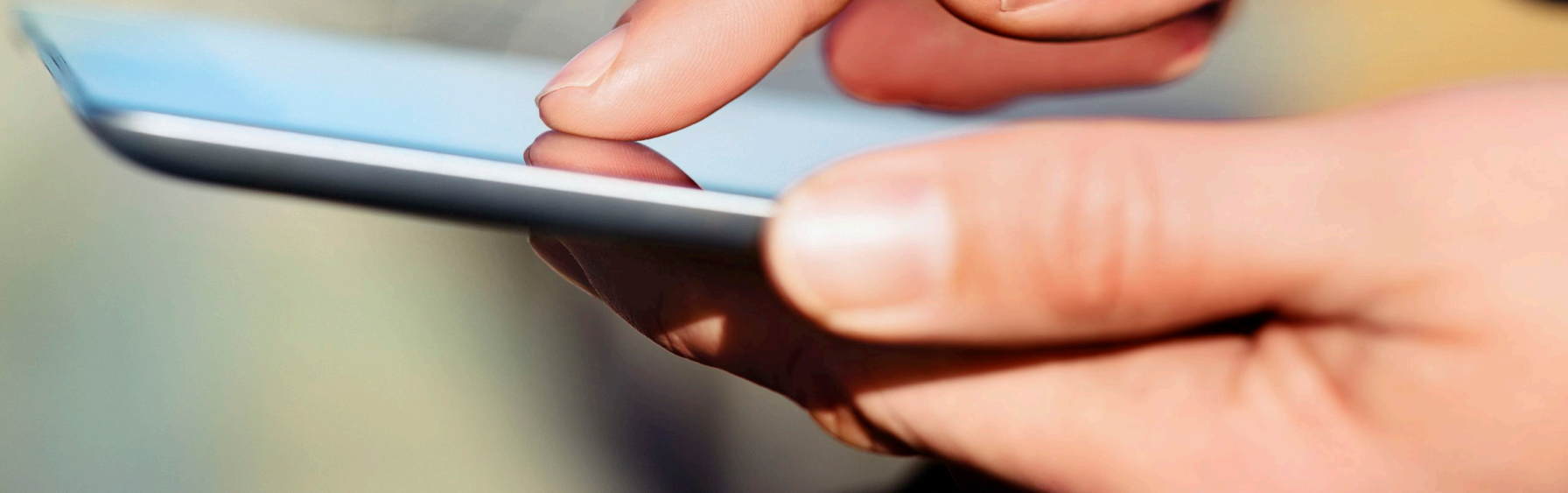
App-centric

Information-centric

From Systems of Record



To Systems of Engagement



I'M SCARED TOO
BUT WE'LL MAKE IT.

IT Mobile Challenges



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

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

Value of Mobile Application Platform



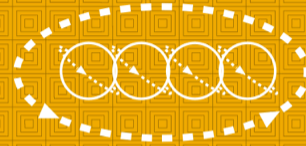
Expedite
Innovation To Market



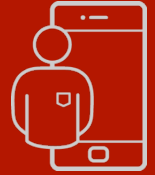
Accelerate
Application Development



Increase
Operational Efficiency



Enable
DevOps



Drive
User Engagement

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



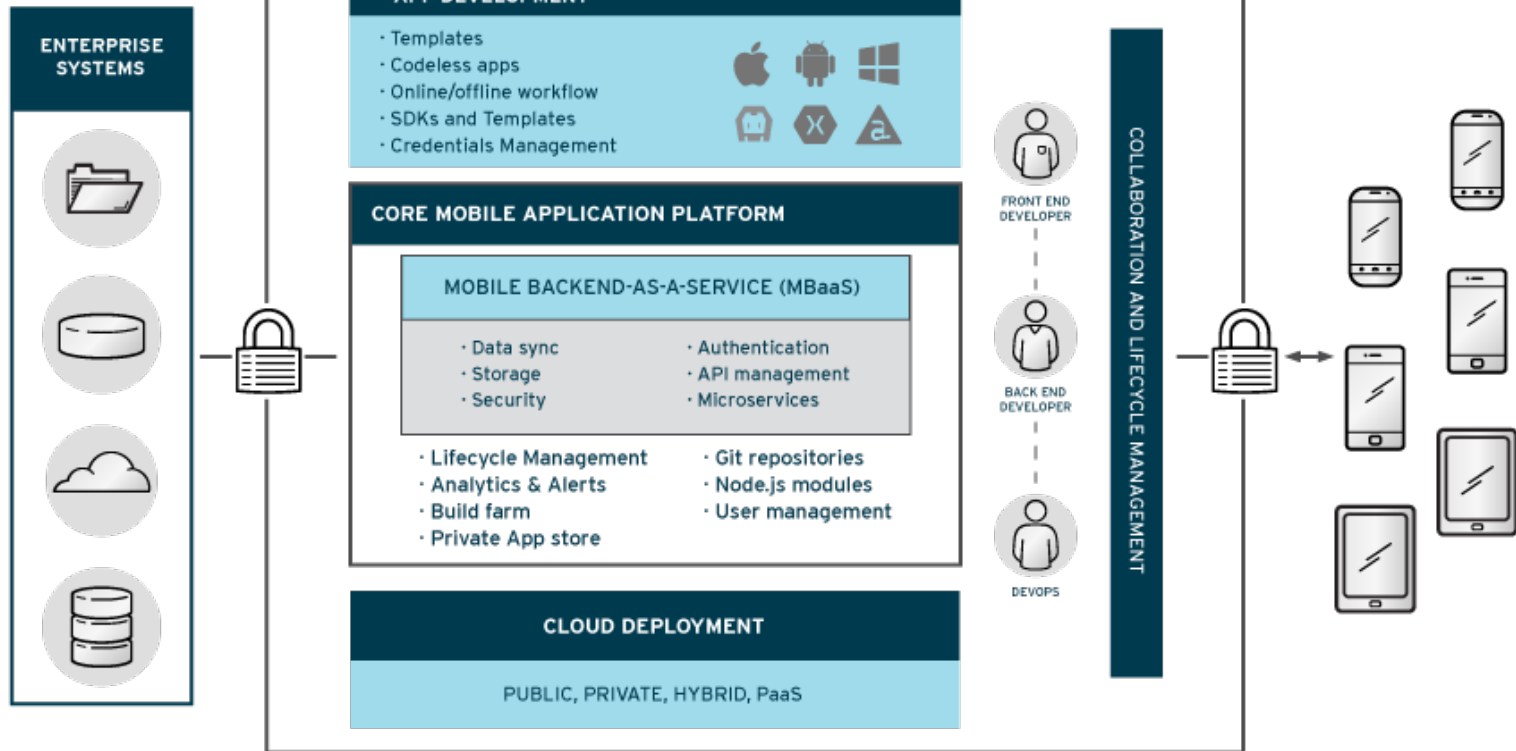
SAMSUNG
BUSINESS

- 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

RED HAT® MOBILE APPLICATION PLATFORM

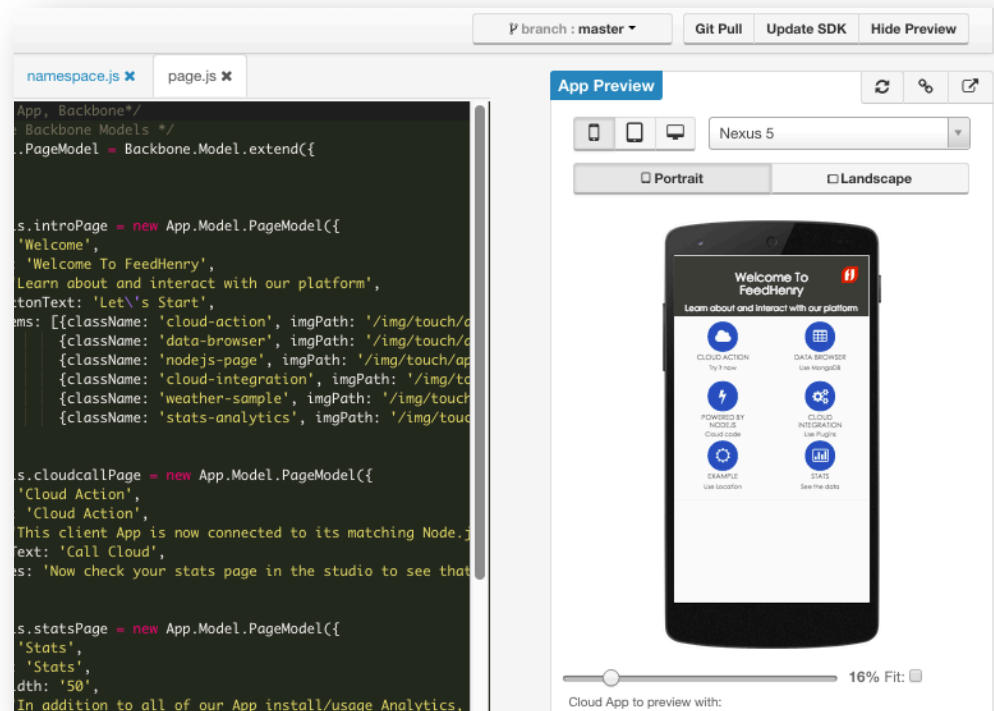


The screenshot displays the Red Hat Mobile Application Platform (MAP) user interface. At the top, a navigation bar includes the Red Hat logo, a 'Projects' menu, and links for 'Analytics', 'Resources', 'Drag & Drop Apps', 'Services & APIs', 'Admin', and 'Docs'. A secondary navigation bar shows the current page 'Sales App De...' and a breadcrumb trail: '<> Apps, Cloud Apps & Services', along with links for 'Connections', 'Git Quickstart', 'Resources', 'Lifecycle Management', 'Forms', 'Reporting', and 'Settings'. A 'Old Studio' link and user profile icons are also present.

The main content area is titled '<> Apps, Cloud Apps & Services' and contains the text: 'Below are all Apps, Cloud Code Apps and associated'. Three panels are visible, each with a colored header:

- CLIENT (Red Header):** Contains a list of three mobile applications:
 - Sales Demo App** (Cordova Light, updated 5 hours ago): Includes a GitHub repository link and a 'Copy' button.
 - Sales App - Android Native** (Native Android, updated 5 hours ago): Includes a GitHub repository link and a 'Copy' button.
 - Sales app - iPhone Native** (Native iOS, updated 5 hours ago): Includes a GitHub repository link and a 'Copy' button.
- NODE (Yellow Header):** Contains one item:
 - Cloud Instance** (Node.js Cloud App, updated 5 hours ago): Includes a GitHub repository link and a 'Copy' button.
- MBaaS (Green Header):** Contains a list of three mobile Backend as a Service (mBaaS) services, each with a 'Discover' button:
 - AeroGear Push Service - Connector Service** (updated 2 months ago)
 - Oracle Fusion CRM - Connector Service** (updated 2 months ago)
 - Salesforce - Connector Service** (updated 15 days ago)

Client-side App Development



The screenshot displays a web-based development environment. On the left, a code editor shows JavaScript code for a Backbone.js application. The code defines a `PageModel` and creates instances for `introPage`, `cloudcallPage`, and `statsPage`. The `introPage` instance includes a `render` method that sets the page title and content, and a `pages` array of page configurations. The `cloudcallPage` instance has a `render` method that displays a message about connecting to a Node.js server. The `statsPage` instance has a `render` method that displays a message about checking stats.

```
App, Backbone*/
Backbone Models */
.PageModel = Backbone.Model.extend({

s.introPage = new App.Model.PageModel({
  'Welcome',
  'Welcome To FeedHenry',
  Learn about and interact with our platform',
  stonText: 'Let\'s Start',
  ms: [{className: 'cloud-action', imgPath: '/img/touch/d
    {className: 'data-browser', imgPath: '/img/touch/d
    {className: 'nodejs-page', imgPath: '/img/touch/ap
    {className: 'cloud-integration', imgPath: '/img/to
    {className: 'weather-sample', imgPath: '/img/touch
    {className: 'stats-analytics', imgPath: '/img/touch

s.cloudcallPage = new App.Model.PageModel({
  'Cloud Action',
  'Cloud Action',
  This client App is now connected to its matching Node.js
  ext: 'Call Cloud',
  s: 'Now check your stats page in the studio to see that

s.statsPage = new App.Model.PageModel({
  'Stats',
  'Stats',
  'Stats',
  dth: '50%',
  In addition to all of our App install/usage Analytics,
```

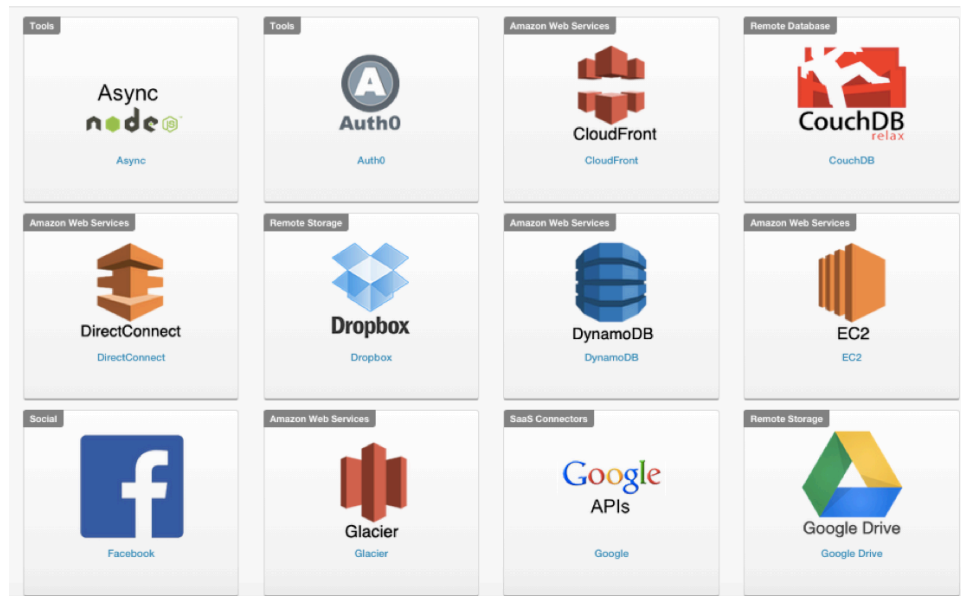
On the right, the 'App Preview' window shows a mobile application running on a Nexus 5 device. The app interface includes a title bar 'Welcome To FeedHenry', a subtitle 'Learn about and interact with our platform', and a grid of six icons: 'CLOUD ACTION' (powered by Node.js), 'DATA BROWSER' (use HerokuDB), 'POWERED BY NODEJS' (cloud code), 'CLOUD INTEGRATION' (use Heroku), 'EXAMPLE' (use location), and 'STATS' (see the data). The preview is set to 'Portrait' orientation and '16% Fit'.

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

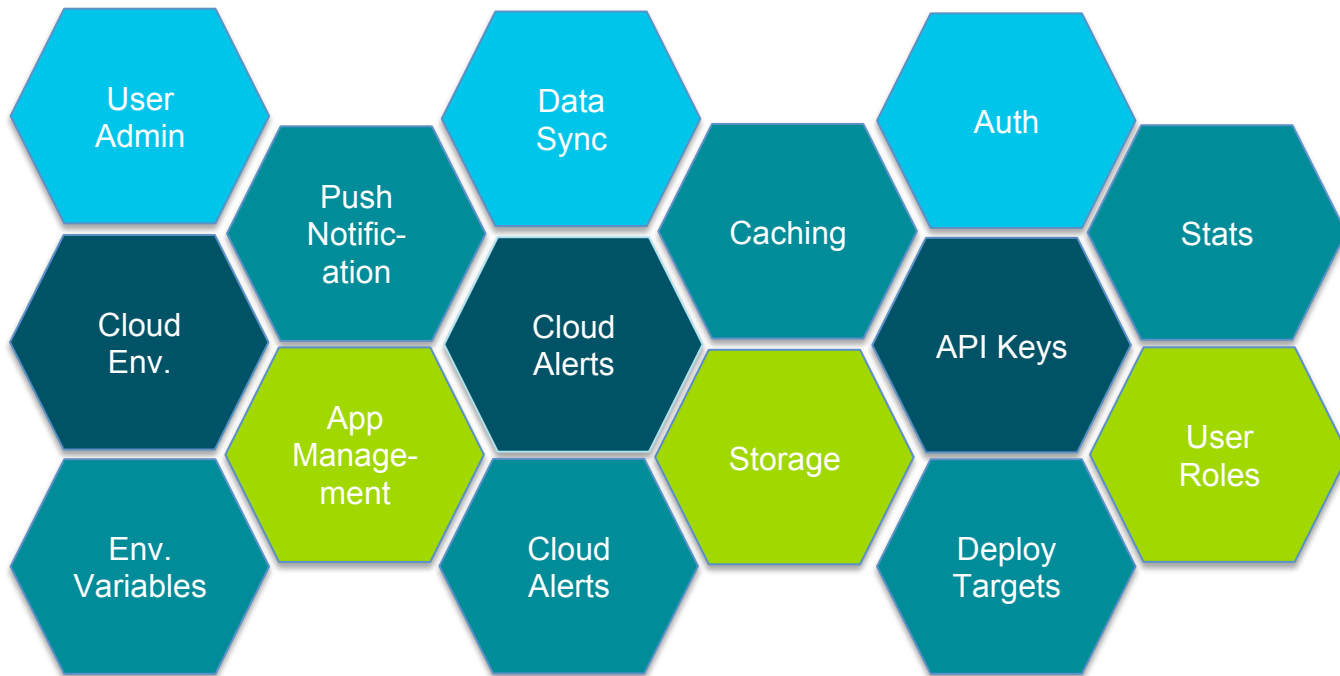
NODE

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.












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

Other Platform Features

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

▼  Domain	Edit
▼  Admin	View
 Authorization Policy	None
 Deploy Target	View
▼  App Store	Edit
 App Store Audit Log	Edit
▼  Store Item	Edit
▼  Store Item Binary	Edit
 Store Item Binary Version	Edit

How to use the Platform

MBaaS

Building MBaaS Services



IDENTIFY
INTEGRATION
POINTS

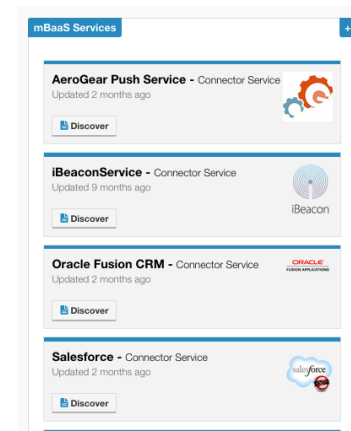
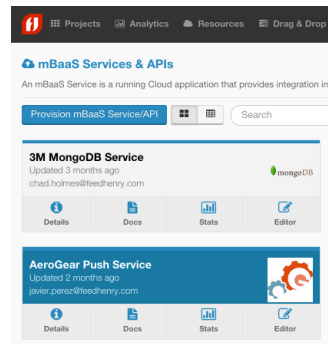
BUILD YOUR
NODE.JS
MODULES

DEFINE IT AS
RE-USABLE
SERVICE

BUILD YOUR APP
WITH AVAILABLE
SERVICES

JSON/REST
XML/SOAP
OData

```
1 var sender = require('unifiedpush-node-sender');
2 var express = require('express');
3 var bodyParser = require('body-parser');
4 var cors = require('cors');
5 var optval = require('optval');
6 var util = require('util');
7 var winston = require('winston');
8 var requestId = require('connect-requestid');
9
10 validateEnvVar('AEROGEAR_SERVER_URL');
11 validateEnvVar('AEROGEAR_APPLICATION_ID');
12 validateEnvVar('AEROGEAR_MASTER_SECRET');
13
14 var settings = {
15   serverUrl: process.env.AEROGEAR_SERVER_URL,
16   applicationId: process.env.AEROGEAR_APPLICATION_ID,
17   masterSecret: process.env.AEROGEAR_MASTER_SECRET,
18   ttl: parseInt(optval(process.env.AEROGEAR_TTL),
19 );
```



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



Git Branch/Tag *

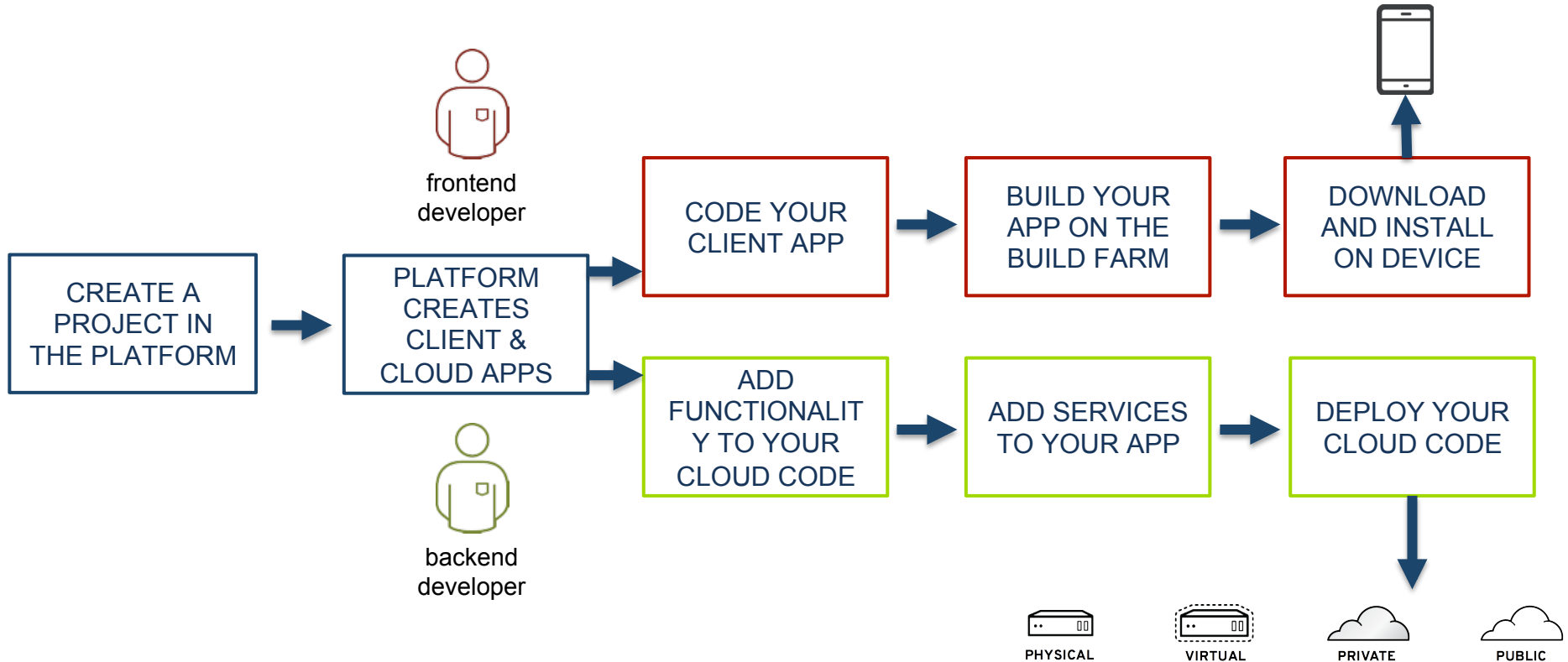
Build Type *
 Debug
 Distribution
 Release

Credential Bundle

<http://henr.ie/tnaKVXf>

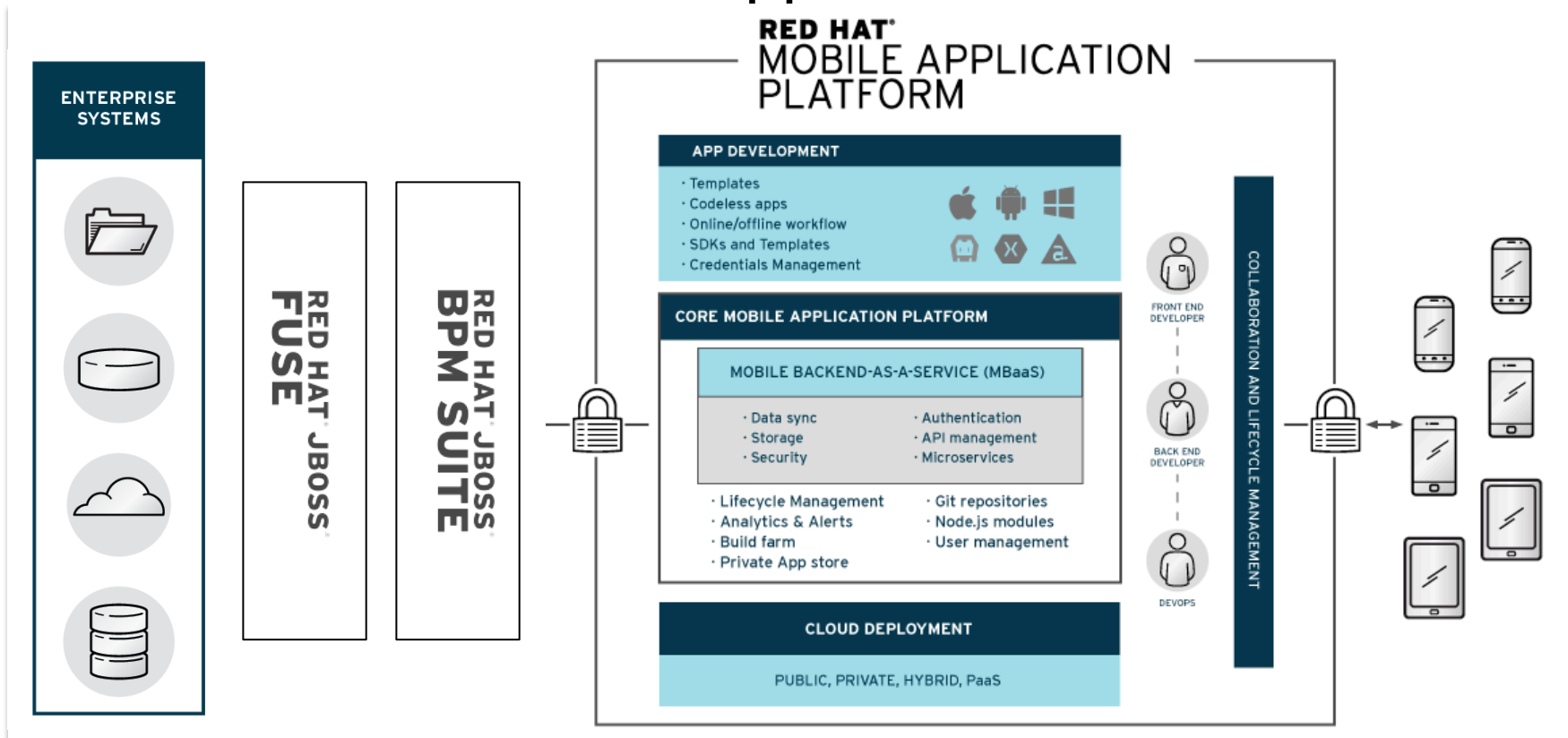


Full process flow to build an app

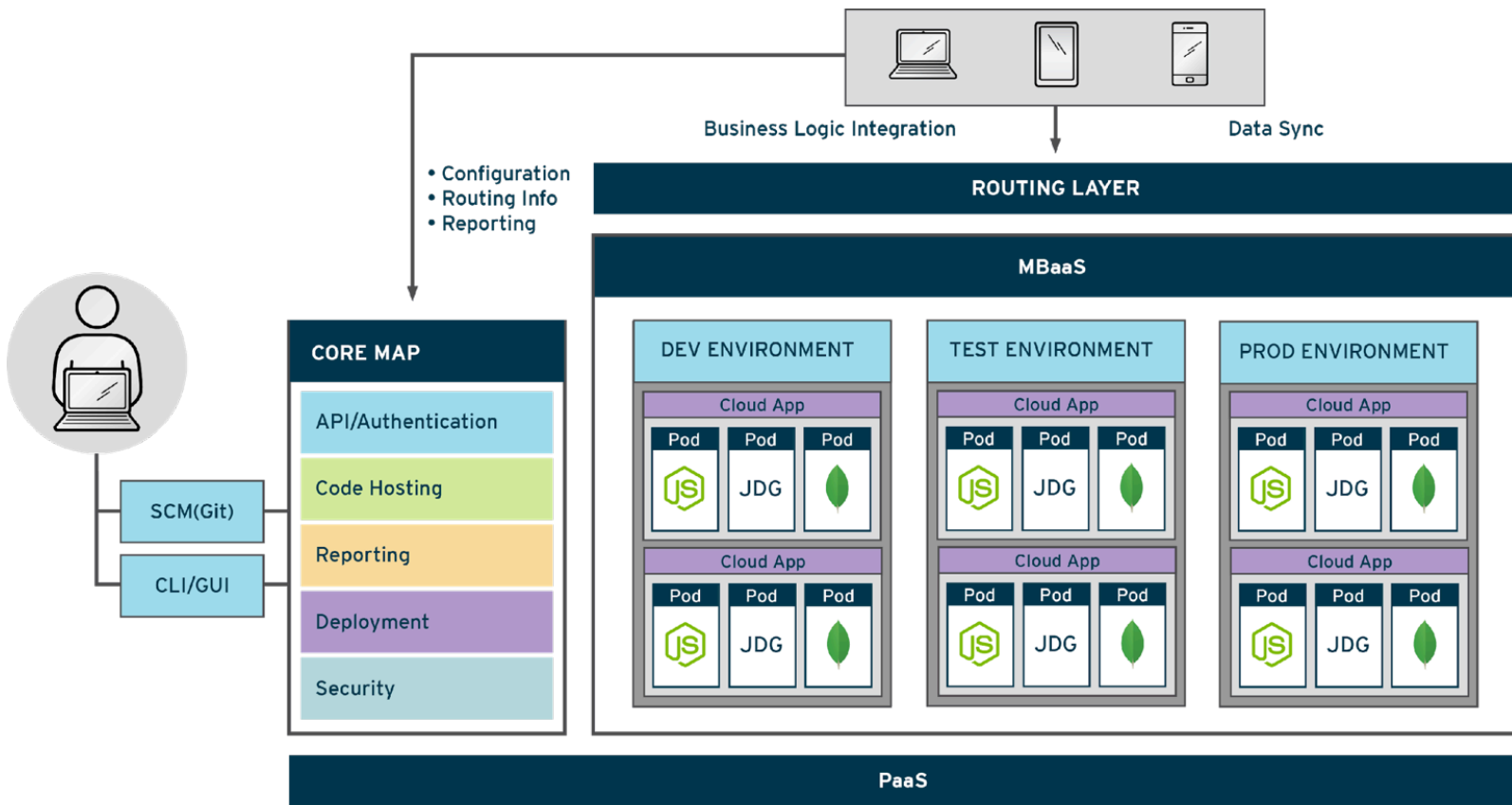


Architecture Overview

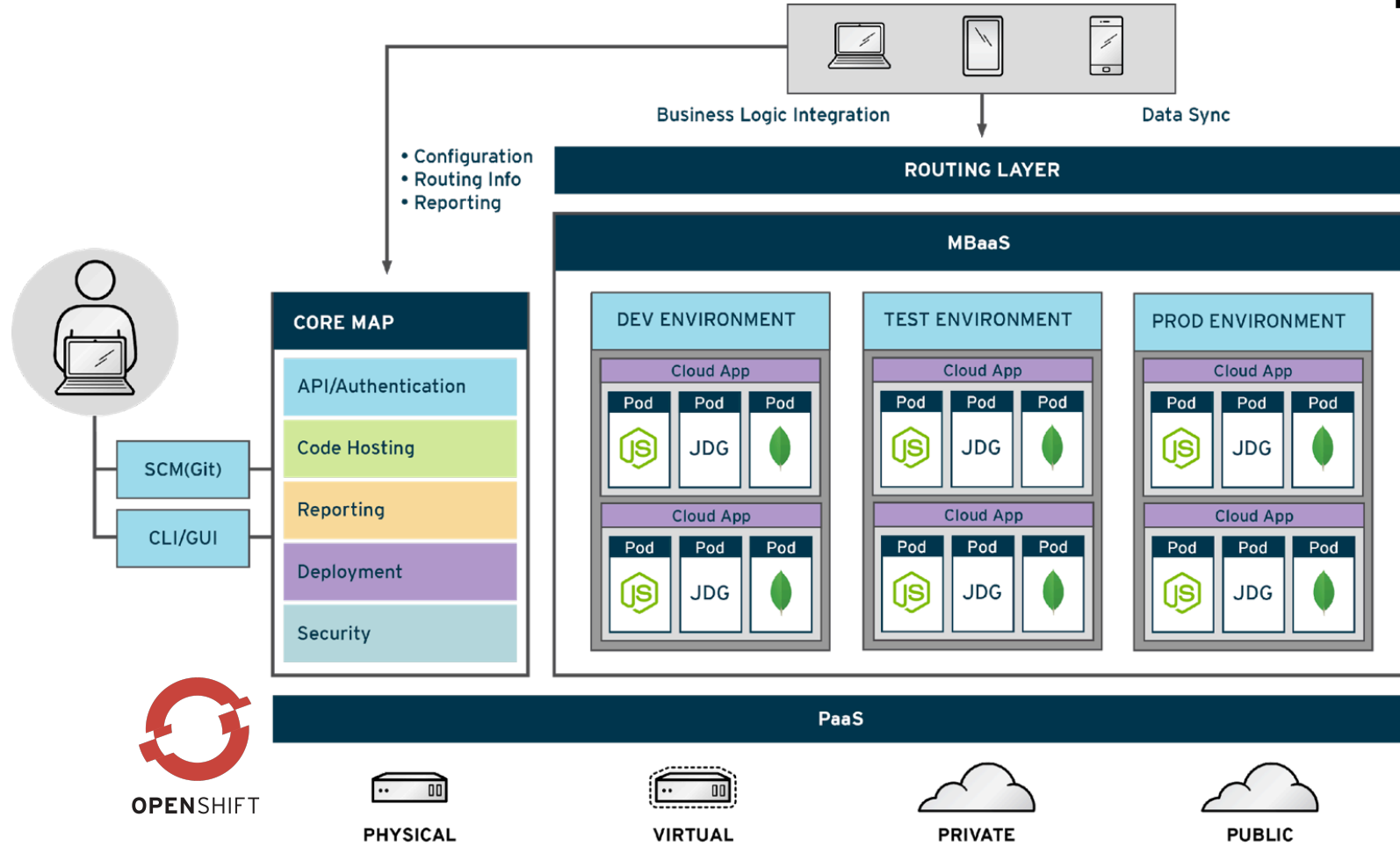
Red Hat Mobile Application Platform and JBoss



Containerized Architecture



Containerized Architecture on Openshift

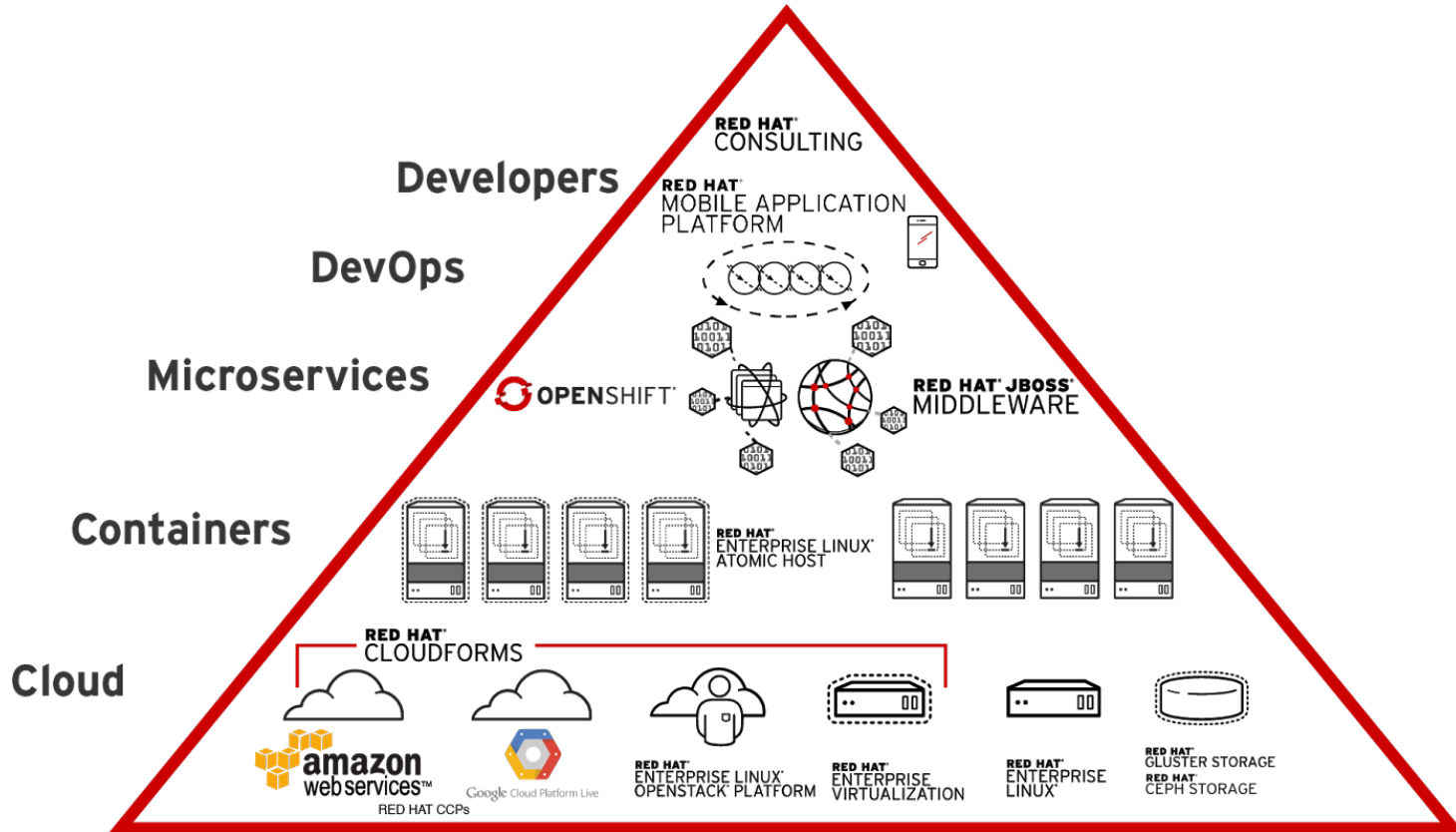


Client Case Studies Open Source Project

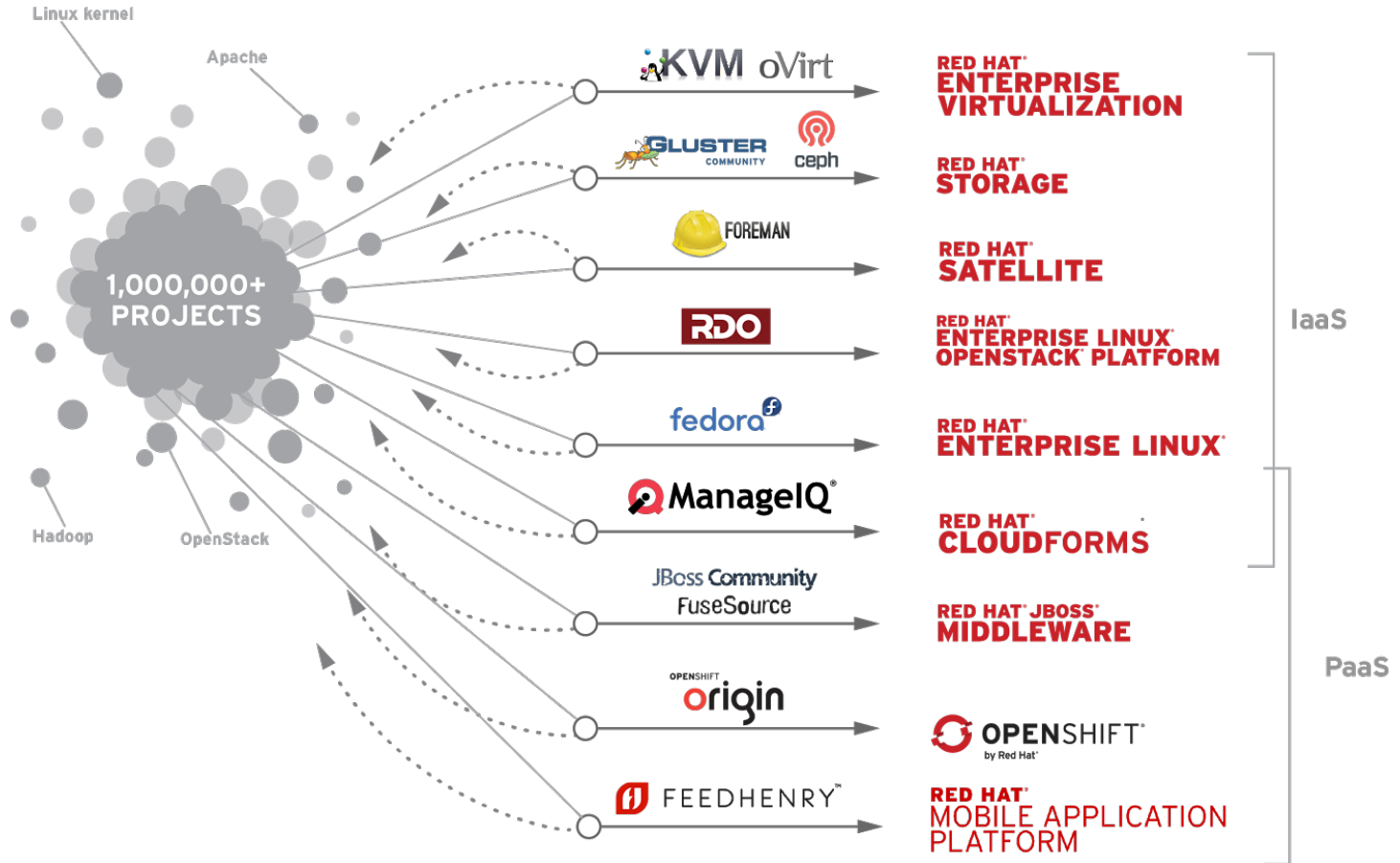
The Benefits to our Customers

- **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

Transforming Business with Red Hat



Mobile and Red Hat Community



UPCOMING MOBILE WORKSHOPS – RED HAT MOBILE APPLICATION PLATFORM

JULY 16: Atlanta

JULY 21: San Jose

JULY 23: Los Angeles

JULY 28: New York

JULY 30: Boston

NOV 5: Chicago

REGISTER NOW

<http://henr.ie/Mobile-Workshop>



RED HAT
SUMMIT

A stylized silhouette of a city skyline is shown against a background of yellow and orange rays emanating from the top. The skyline is composed of various building shapes in shades of red and dark blue.

SUMMIT BY DAY PARTY BY NIGHT

JOIN OUR **JBOSS,**
OPENSIFT,
AND **MOBILE** TEAMS ON WED. JUNE 24
FOR A NIGHT OF GAMES, DANCING,
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Visit the Red Hat booth
in Hall D for location
and invitation.

An invitation doesn't guarantee entrance. Admission determined by city of Boston fire code.

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Website: <http://www.redhat.com/mobile>

Email: mobile@redhat.com

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