

**RED HAT
SUMMIT**

10 YEARS *and counting*
SAN FRANCISCO | APRIL 14-17, 2014

Red Hat Cloud Guide to All Things xPaaS

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What are we talking about?

xPaaS Services for OpenShift

Unifying platform

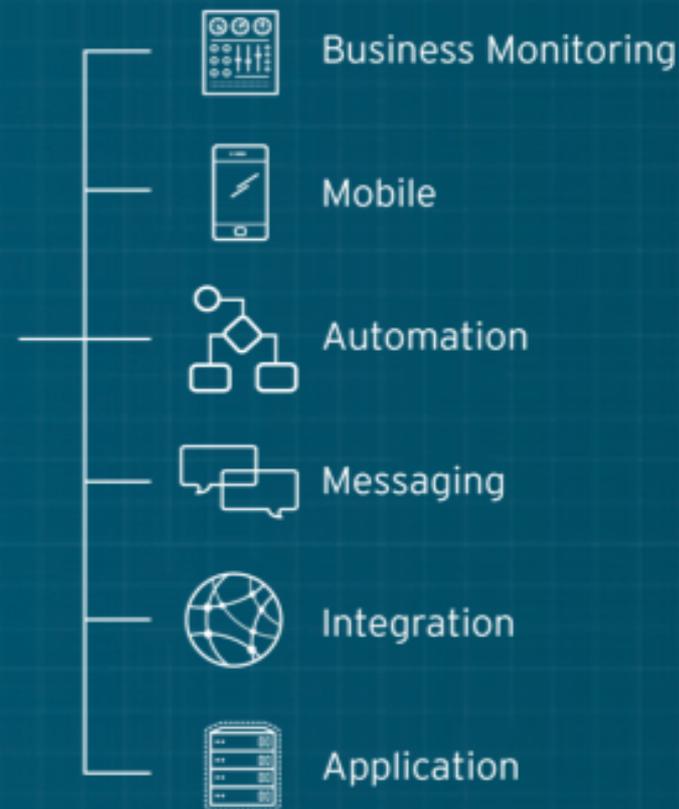
Build, deploy, provision and manage modern enterprise applications

Built on OpenShift with JBoss Middleware

Increases builder productivity across the platform's capabilities



xPaaS



Business Monitoring



Mobile



Automation



Messaging



Integration



Application

aPaaS

Application Platform as a Service

- JBoss EAP 6
 - cloud ready
 - service oriented components
 - optimized for multicore, virtualized, and cloud environments
 - low memory footprint
 - quick startup

Enterprise Application Platform

Market-leading open source Java EE platform for modern, highly-scalable, secure, transactional applications. Build and deploy enterprise Java applications in the cloud using Java EE, Spring or your choice of Java framework.

[More Information](#)

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aPaaS

JBoss EAP 6 cartridge

- JBoss Business Optimizer
 - <http://optimizer-inthe.rhcloud.com>
- Mobile Conference Registration
 - <http://jaxlondon-inthe.rhcloud.com>
- End-to-end JEE...
 - IDE tooling
 - Jenkins CI testing
 - scaling deployments



**WELCOME TO BUSINESS OPTIMIZER ON
OPENSIFT**

If you want to give it a try, just go to the [JBoss Business Optimizer](#).

iPaaS

Integration Platform as a Service

- JBoss Fuse 6
 - integration services in cloud
 - span hybrid on-premise & cloud environments
 - cloud based interface
 - configuring integration routes & transformations
 - container choice - cloud & non-cloud endpoints
 - reliable messaging - (JBoss A-MQ) hosted in cloud or on-premise

iPaaS

JBoss Fuse 6 cartridge

- JBoss Fuse Overview
 - <https://www.openshift.com/developers/jboss-fuse>
- JBoss Fuse Quickstart
 - <https://www.openshift.com/quickstarts/jboss-fuse-61>
 - <http://integration-inthe.rhcloud.com>
- Using Red Hat JBoss Fuse on OpenShift (DevNation)
 - Wed, 16 April 2014 – 13:20 hrs (Jack Britton, Kenny Peeples)
 - <http://www.devnation.org/#agenda>

Fuse

The JBoss Fuse enterprise service bus is technology for building and implementing communication between different applications, services, and data. It is specifically designed for extensive connectivity.

[More Information](#) | [FAQs](#) | [Getting Started](#)

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RED HAT JBOSS FUSE MANAGEMENT CONSOLE

Username

Password

Remember me

[Log In](#)

- Login to console

- Dashboard overview

RED HAT JBOSS FUSE Management Console

Runtime Wiki **Dashboard** Health

Welcome [Manage](#)

Java Heap Memory

9.4% Used (66960696)

90.6% Free (648954568)

Java Non Heap Memory

16.1% Used (42487360)

83.9% Free (221752792)

Containers

Filter...

Integration / 1.0

Active Profiles

Filter...

Container	Target	Count
fabric / 1.0	1	+
hawtio / 1.0	1	+
openshift / 1.0	1	+

Loaded Classes

UnloadedClassCount (0)

100.0% LoadedClassCount (8653)

Process CPU Load

Frequency

07:38 07:39 07:40 07:41 07:42 07:43 07:44 07:45 07:46 07:47 07:48 07:49 07:50 07:51

Current thread cpu time: 5.86

Peak thread count: 150

Daemon thread count: 50

Total started thread count: 4.1K

Current thread user time: 5.46

Thread count: 78

Logs

Time	Level	Source	Message
2014-03-19 19:37:01	INFO	io.fabric8.agent.DeploymentAgent	Starting bundles:
2014-03-19 19:37:02	INFO	io.fabric8.agent.DeploymentAgent	Done.
2014-03-19 19:37:05	INFO	io.hawtio.jsonschema.SchemaLookup	Looking up schema for io.fabric8.openshift.CreateOpenshiftContainerOptions
2014-03-19 19:37:06	INFO	io.hawtio.jsonschema.SchemaLookup	Looking up schema for io.fabric8.openshift.CreateOpenshiftContainerOptions

iPaaS

JBoss Data Virtualization 6 cartridge

- JBoss DV Overview
 - <https://www.openshift.com/developers/jboss-data-virtualization>
- JBoss DV Quickstart
 - <https://www.openshift.com/developers/jboss-data-virtualization/getting-started>

Data Virtualization

JBoss Data Virtualization is a technology which allows applications to use data from multiple heterogeneous data sources. It comprises tools and runtime services for creating and executing bi-directional data services.

[More Information](#) | [FAQs](#) | [Getting Started](#)

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bpmPaaS

BPM as a Service

- JBoss BPM Suite 6
 - cloud based process modeling
 - cloud based business activity monitoring (BAM)
 - dynamically configure data without changing code
 - advantages:
 - analysts start process automation projects faster / cheaper
 - eliminate hassel on-premise installations / deployments
 - analysts design business dashboards in cloud web-based drag-and-drop

bpmPaaS

JBoss BPM Suite 6 cartridge

- JBoss BPM Suite Overview
 - <https://www.openshift.com/developers/jboss-bpms>
- JBoss BPM Suite Quickstart
 - <https://www.openshift.com/developers/jboss-bpms/getting-started>
- Check out JBoss BRMS & BPM Suite labs
 - <http://summitlabs-inthe.itos.redhat.com>
 - <http://www.schabell.org/2014/03/redhat-jboss-brms-online-workshop-colstore-intro-lab1-2.html>

Business Process Management

JBoss BPM Suite provides business users and developers with powerful and intuitive tools to capture business processes, policies and rules and configure advanced business reporting, to obtain process-based applications that can be modified with agility in response to the business needs.

[More Information](#) | [FAQs](#) | [Getting Started](#)

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mPaaS

Mobile Platform as a Service

- Based on Aerogear project
 - cloud enabled unified push server
 - data encryption for secure comm between devices
 - data synchronization for offline device usage

Unified Push Server

The Unified Push Server allows developers to send native push messages to Apple's Push Notification Service (APNS) and Google's Cloud Messaging (GCM). It features a built-in administration console that makes it easy for developers to create and manage push related aspects of their applications for any mobile development environment.

[More Information](#)

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← → ↻ <https://mobile-inthe.rhcloud.com/#/login>

AeroGear UnifiedPush Server (0.10.1)

Login

Username

Password

- Login to Unified Push Sever
- Unified Push Sever dashboard

AeroGear UnifiedPush Server (0.10.1) Log out

The UnifiedPush Server provides you with a simple **unified way to send push notifications** to apps that run **on different mobile platforms**. Supported push networks include **Apple Push Notification Service**, **Google Cloud Messaging** and **SimplePush**.

Applications (0)

Name	Description	Variants
Your applications will show up here, please create one first.		

mPaaS

JBoss Mobile Push Server cartridge

- Aerogear Quickstart
 - <https://www.openshift.com/quickstarts/aerogear-push-0x>

AeroGear Push 0.X

OPENSIFT TEAM | Added by jwhonce on Tuesday, September 3, 2013

Deploy Now

The AeroGear UnifiedPush Server allows for sending native push messages to different mobile operation systems. This initial community version of the server supports Apple's Push Notification Service (APNs), Google Cloud Messaging (GCM) and Mozilla's SimplePush.

0

votes



It has a built in administrative console that makes it easy for developers of any type to create and manage push related aspects of their applications. This means whether you are developing native mobile applications, hybrid applications such as with Apache Cordova, or mobile/desktop web applications, the AeroGear Push server can make push messaging easier.

As part of the cartridge there is also an implementation of Mozilla's SimplePush server which allows for push notification to Firefox OS, as well as traditional browsers using our JavaScript libraries.

The accompanying links and documentation contain everything you need to get started including client SDKs, sender API, admin console guide, examples, and more.

Please contact the AeroGear community with any feedback, requests, or contributions for this open source push service at <http://aerogear.org>

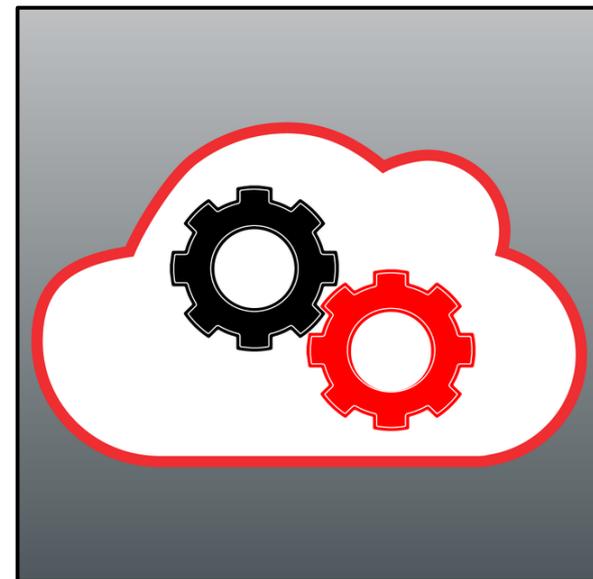


- JBoss BPM Suite getting started articles / demos:
 - <http://www.schabell.org/2013/10/jboss-bpm-suite-rocking-the-mortgage-demo.html>
 - <http://www.schabell.org/2013/11/jboss-bpm-suite-automated-lending-generic-loan-demo.html>
 - <http://www.schabell.org/2013/12/bpms-examining-migrated-customer-evaluation-demo.html>
 - <http://www.schabell.org/2013/12/openshift-primer-business-resource-optimizer.html>
 - <https://www.openshift.com/xpaas>
- JBoss xPaaS Demo Projects:
 - <https://github.com/eschabell/cartridge-bpmPaaS>
 - <https://github.com/eschabell/cartridge-bpmPaaS-generic-loan-demo>

Red Hat xPaaS Extra

OpenShift Mobile

- Mobile application for managing OpenShift
- Multi-platform support  iOS 
- Features
 - Full application lifecycle support
 - User management
- Get involved!
 - <http://www.openshiftmobile.com>



Red Hat xPaaS Extra

Applications

	eap6 http://eap6-openshiftandroid.rhcloud.com/
	php http://php-openshiftandroid.rhcloud.com/
	python http://python-openshiftandroid.rhcloud.com/

Actions

- View Application
- Start Application
- Stop Application
- Restart Application
- Delete Application

- Control Applications

- View Application and Cartridge Status

eap6

Info	Cartridges	Aliases
	JBoss Enterprise Application Platform 6 Status: Started Gears: 1 (min: 1, max: 1)	
	PostgreSQL 9.2 Status: Started Gears: 1 (min: 1, max: 1)	

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Questions?

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