

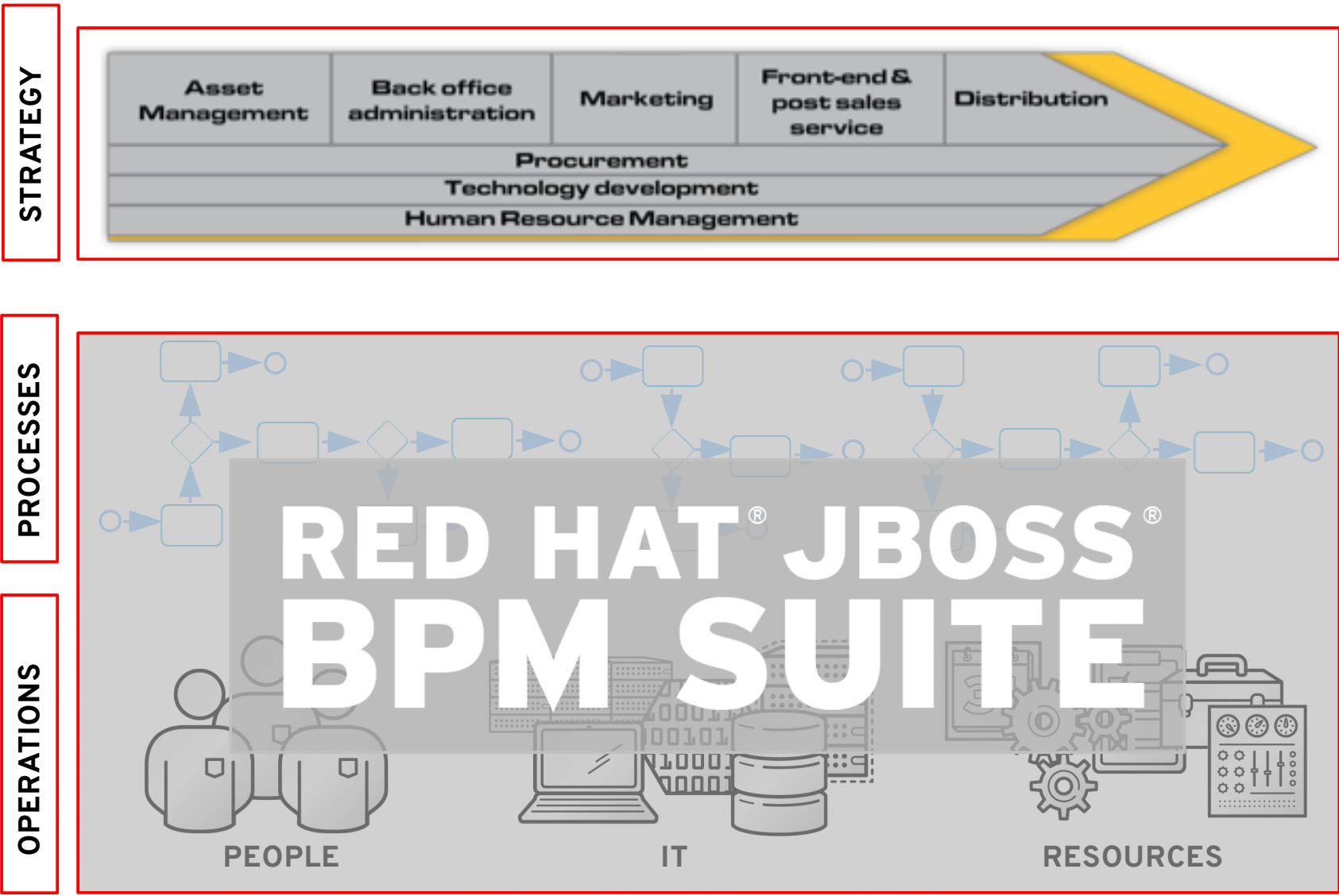


Build the Enlightened Enterprise

An Overview of the Realtime Decision Server

Powered by JBoss Enterprise Middleware -
Red Hat JBoss BPM Suite

JBoss Middleware becomes strategic



Value Proposition



Automate
business operations
with intelligent
decision support



Optimize
business operations
with real-time BAM, analytics,
simulation and recommendation



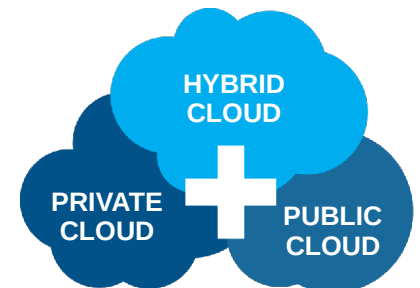
Accelerate
application development
with model-driven
design and integration



Empower
business users to
take control of operations

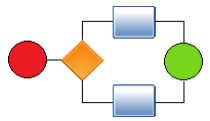


Collaborative working
during the entire process life cycle
and beyond the Enterprise



Deploy
in the Cloud
with BPM PaaS

Capabilities Overview



Processes

Create and deploy enterprise processes and applications through a model-driven composition environment and execution platform.



Services

Integrate and interoperate your existing enterprise systems and web services in your business processes using JBoss SOA Platform and JBoss Fuse modern ESB.



Rules

JBoss BRMS is included in JBoss BPM Suite to support the definition, management and execution of business rules by Business and IT users.



Data

Data modeling tool that also enables participants to manipulate and manage data entities within running processes.



Events

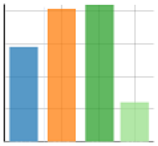
Handle events as first class citizens of the platform, dedicating an independent module to Manage Complex Event Processing (CEP).



Forms

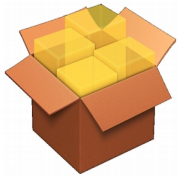
Forms modeling tool to build dynamic and interactive web forms using using a WYSIWYG drag-and-drop interface.

Capabilities Overview



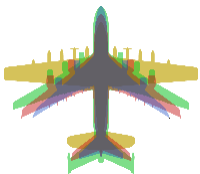
Analytics

Build dashboards that deliver real-time business activity monitoring (BAM) and reporting with personalized information, measure and analyze key indicators to track process performance to make quick and effective decisions.



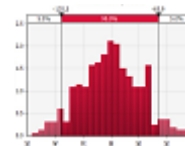
Assets

Pluggable multi-dimensional repository for knowledge representation of processes, rules, data and services to facilitate reusability, change management, governance and compliancy.



Execution

Integrated execution environment with separates engines for processes, tasks, events and rules. Deploy in different application servers, on-premise or in cloud.



Simulation

Establish, execute and analyse different simulation scenarios. Identify bottlenecks. Decide what are the optimal parameters and thresholds for your processes. Make effective recommendations.



Workspace

The execution environment provides a Rich User Interface (RUI) or Portal that centralize user participation, attending alerts and triggers, and notifying actions to each role across the entire process lifecycle.



Development

JBoss Workbench IDE lets developers easily extend, build and integrate process-based applications.

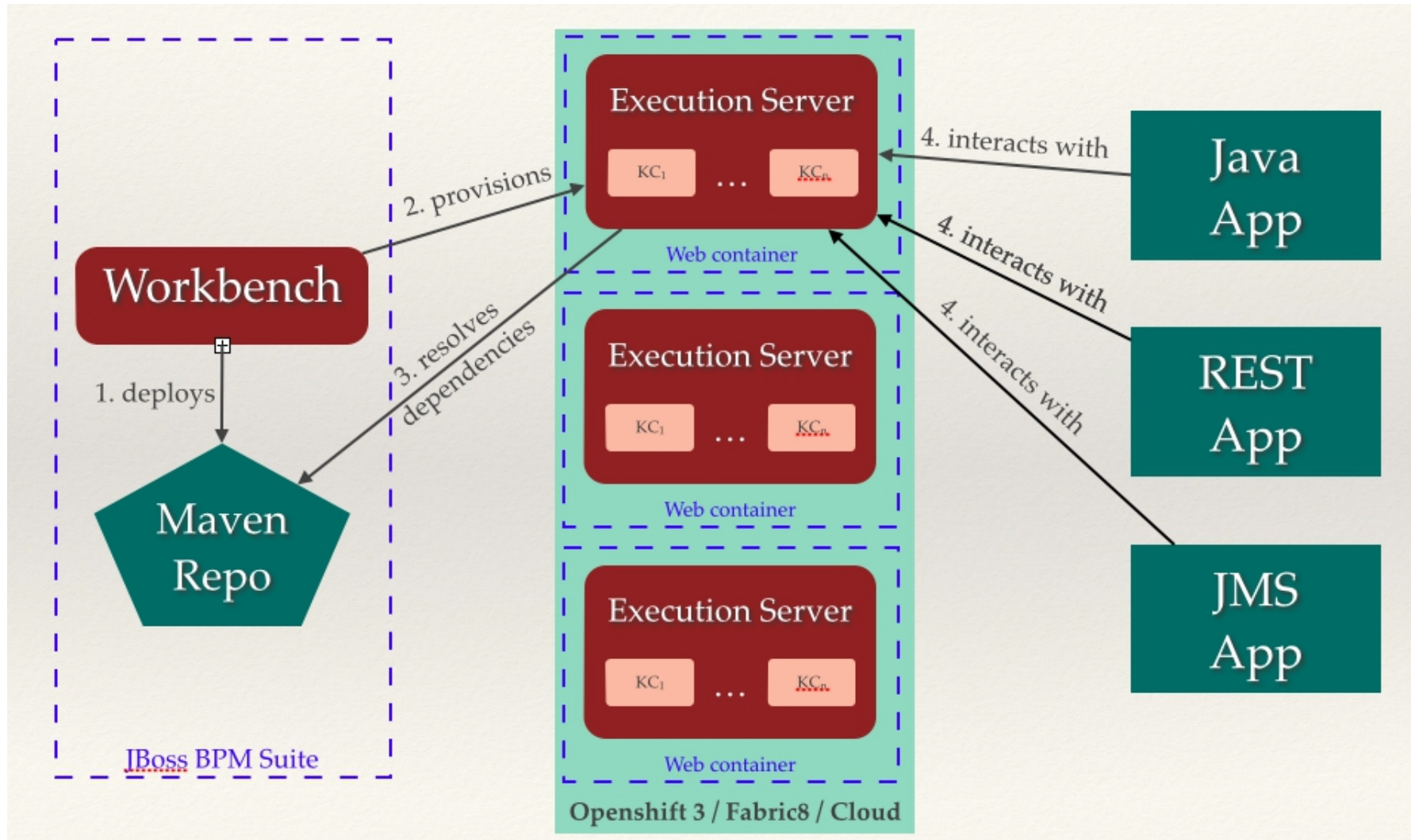
Realtime Decision Server

- Stand-alone, out-of-the-box, container to instantiate and execute business rules
- Web application (.war)
- Lean footprint for cloud deployment
- Each server instance supports multiple KIE Containers (containers that execute rules)

Features

- Full support for rules execution
- Stateful and stateless sessions
- Support to artifact and dependencies resolution
- Support to hot updates (scanner: poll based)
- Full provisioning API available
- Support to scripting

Architecture Overview



In the planning...

- Support to additional protocols (JMX, SOAP, etc)
- Full integration with Fabric8 for JVM provisioning, cloud deployment
- Full integration with jBPM
- Out of the box, cluster provisioning
- Additional services, resources, end points

Create Container

✕

container-loan1.0

com.redhat.demos

loandemo

1.0

Ok

http://localhost:8080/kie-server/services/rest/server/containers/container-loan1.0

Search

Name	Path	LastModified	Open	Select
jboss-cli-clien...	client/jboss-cl...	2015 Mar 27 ...	Open	Select
jboss-client.jar	client/jboss-cl...	2015 Mar 27 ...	Open	Select
loandemo-1.0...	com/redhat/d...	2015 May 1 1...	Open	Select
guvnor-asset...	org/guvnor/g...	2015 May 1 1...	Open	Select

⏪ ⏩ 1-4 of 4 ⏪ ⏩ ⏭

File Authentication Headers View Favorite Requests Setting RESTClient

[-] Request

Method PUT URL http://localhost:8080/kie-server/services/rest/server/containers/container-loan1.0

☆

SEND

Headers

Remove All

Authorization: Basic ZXJpY3M6amJ... ✕

Body

<batch-execution>
<insert out-identifier="applicant">
<com.redhat.loandemo.Applicant>
<name>Eric D. Schabell</name>
<creditScore>230</creditScore>
</com.redhat.loandemo.Applicant>
</insert>
<insert out-identifier="loan">
<com.redhat.loandemo.Loan>
<amount>2500</amount>
<duration>24</duration>
<interestRate>1.5</interestRate>
</com.redhat.loandemo.Loan>
</insert>
<fire-all-rules />
</batch-execution>

Server Management Browser

○ ● Filter... ✕

⚡ Register ↻ Refresh

○ ● DevServer Server v.6.2.0.Final-redhat-4

+

○ ● container-loan1.0 com.redhat.demos:loandemo-1.0

➡

Container Info [container-loan1.0] ✕ ^

Interval

Start Scanner

Stop Scanner

Scan Now

🔌

Endpoint

http://localhost:8080/kie-server/services/rest/server/containers/container-loan1.0

Release Id

Group Id

Artifact Id

Version

com.redhat.der

loandemo

1.0

Upgrade

Resolved Release Id

Group Id

Artifact Id

Version



Build the Enlightened Enterprise

For more information, please visit
<http://jboss.org/products/bpmsuite>

Demo project available at:
<http://github.com/jbossemocentral/bpms-realtime-decision-server-demo>