Red Hat JBoss BRMS

&

Red Hat JBoss Fuse

Fuse Integration Demo

(Use case: rules integration with ESB)

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Table of Contents

Introduction

This project was setup to demonstrate an actual integration between Red Hat JBoss BPM Suite and Red Hat JBoss Fuse products. It will provide you with an architectural blueprint for calling out to a JBoss BRMS engine from within your JBoss Fuse service bus messaging (Camel) routes. The project provided here will get you started quickly on the road to integration in practice.

Setup and Configuration

Installation

You first need to get the project by downloading or cloning it from the central location:

- *download and unzip:*
  - *https://github.com/eschabell/brms-fuse-integration-demo/archive/fuse-6.1.0.zip*

- *clone project:*
  - *git clone git://github.com/eschabell/brms-fuse-integration-demo.git*

Once downloaded, you will have the following folder structure:

- \brms-fuse-integration-demo
  - \installs – Initially empty, but will contain the product downloads.
  - \projects – The project that comprise the demo.
  - \support – Additional supporting files used by the demo.
  - \target – Will be created by running init.sh. Contains the fully configured product runtime server.
  - \docs – Contains quickstart guide you are reading.

○ init.sh – Script to install and configure the run time server environment.

Next, download JBoss Fuse & JBoss BPM Suite from the Red Hat Customer Portal (https://access.redhat.com).

Download JBoss Fuse:
1. Under *Integrated Platforms*, select the *Fuse* product.
2. Select version *6.1.0* in the *Version* field.
3. Download *Red Hat JBoss Fuse 6.1.0 Full Install*

Now copy `boss-fuse-full-6.1.0.redhat-379.zip`, to the projects *installs* folder. Ensure that this file is executable by running:

```
$ chmod +x <path-to-project>/installs/boss-fuse-full-6.1.0.redhat-
379.zip
```

Download JBoss BPM Suite Platform:
4. Under *JBoss Enterprise Platforms*, select the *BPM Suite* product.
5. Select version *6.0.2* in the *Version* field.
6. Download *JBoss BPM Suite 6.0.2 Deployable for EAP 6.*

Now copy `jboss-bpms-6.0.2.GA-redhat-5-deployable-eap6.x.zip`, to the projects *installs* folder. Ensure that this file is executable by running:

```
$ chmod +x <path-to-project>/installs/jboss-bpms-6.0.2.GA-redhat-
5-deployable-eap6.x.zip
```

Download EAP 6 Platform:
7. Under *JBoss Enterprise Platforms*, select the *Application Platform* product.
8. Select version 6.*1.1* in the *Version* field.
9. Download *JBoss Application Platform 6.1.1.*

Now copy `jboss-eap-6.1.1.zip`, to the projects *installs* folder. Ensure that this file is executable by running:

```
$ chmod +x <path-to-project>/installs/jboss-eap-6.1.1.zip
```

Lastly, from the project folder, run the *init.sh* script:

```
$ ./init.sh
```

When the script completes you will have a new folder named *jboss-eap-6.1*, in the projects *target* folder. The folder is a ready to run EAP 6 server with BPM Suite with the following modifications made:
• The *erics, alan* accounts enabled (passwords are same as users name) in the *brms-roles.properties* and *brms-users.properties* file in *target/jboss-eap-6.1/jboss-as/standalone/configuration*

JBoss Developer Studio Configuration

In this section, you will configure JBoss Developer Studio.

Important: It is assumed that you already have JBoss Developer Studio installed. This demo has
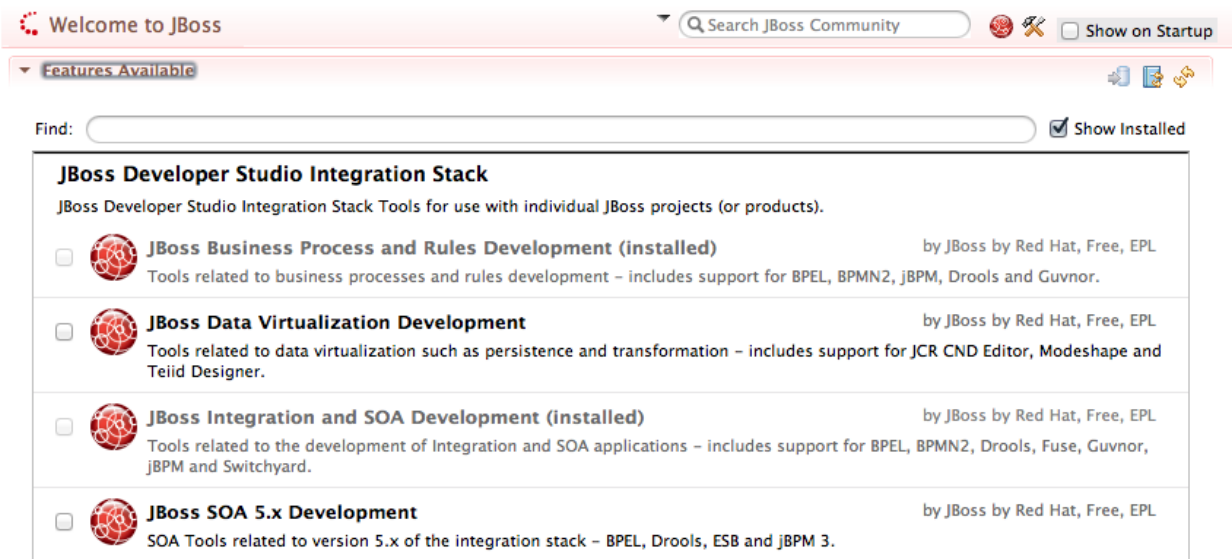
been tested with JBoss Developer Studio 7

Launch JBoss Developer Studio

1. Either select or switch to a new workspace by pointing to the *brms-fuse-integration-demo/projects* folder.

2. If the Welcome to JBoss Developer Studio screen appears, dismiss it by click the Workbench arrow in the upper right.

Install integration and BPM tooling:

1. Select JBoss Central tab and at the bottom the *Software Update* tab.

2. Select checkbox you want to use for the tooling, see image below that has greyed out tooling already installed.

Import Projects

1. Select *Import...* from the *File* menu.

2. Expand the *Maven* folder, and then select *Existing Maven Projects*.

3. Select the *Browse* button to *Select root directory*, you should be in the *brms-fuse-integration-demo* folder (if not, then navigate there) and then select *OK*.

4. Make sure the project (*brms-fuse-integration-demo*) is selected and then select *Finish*.

5. The projects are now imported.

Running the Demo

Web Designer

The business central is available on http://localhost:8080/business-central once the JBoss BPM server has been fully started.

1. Login with a user (erics/bpmsuite).

2. View process: *Project Authoring → open business process* and wait for web designer to appear.

Build package for deployment

To build your package for deployment:

1. Build package: *Project Authoring → Tools → Project Editor,* now click *Build & Deploy* button and the process has been deployed to the JBoss BPM Suite server.

Run camel route which calls the BPM workflow

To run the camel route, run *mvn camel:run* from the simpleRoute directory, watch server log output.