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| **Process Management Tool****and****Process Engine****V. 2****Installation Guide** |



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Record of Revisions

| Issue | Date | Effect on | Reasons For Revision |
| --- | --- | --- | --- |
| Page | Para |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Table of contents

[1. Introduction 6](#_Toc337035701)

[1.1 Goal of this document 6](#_Toc337035702)

[1.2 Galaxy Server achitecture overview 6](#_Toc337035703)

[2. Prerequisite 6](#_Toc337035704)

[3. COTS 6](#_Toc337035705)

[3.1 JBoss installation 6](#_Toc337035706)

[3.2 H2 installation 6](#_Toc337035707)

[4. Configuration 6](#_Toc337035708)

[4.1 Configure Datasource 6](#_Toc337035709)

[4.2 Test JBoss installation 7](#_Toc337035710)

[5. Deployment 7](#_Toc337035711)

[6. Database Configuration 9](#_Toc337035712)

[6.1 H2 managing 9](#_Toc337035713)

[7. Test PMTool Editor 9](#_Toc337035714)

**TABLE OF FIGURES**

**No table of figures entries found.**

Table of APPLICABLE DOCUMENTS

| N° | title | Reference | Issue | Date | Source |
| --- | --- | --- | --- | --- | --- |
| Siglum | Name |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Table of ReferenceD DOCUMENTS

| N° | title | Reference | Issue |
| --- | --- | --- | --- |
|
|  |  |  |  |
| 1.
 |  |  |  |
| 1.
 |  |  |  |
| 1.
 |  |  |  |

ACRONYMS AND DEFINITIONS

Except if explicitly stated otherwise the definition of all terms and acronyms provided in [R2] is applicable in this document. If any, additional and/or specific definitions applicable only in this document are listed in the two tables below.

Acronyms

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| Acronym  | DESCRIPTION |
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Definitions

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# Introduction

## Goal of this document

This document aims to describe the installation procedure of the Process Engine server application and the Process Management Tool Editor.

## Galaxy Server achitecture overview

**TODO**

# Prerequisite

The implementation of both client (Process Management Tool Editor) and server (Process Engine) applications are based on the Java programming language and need the Java Development Kit version 1.6 update 23 to be installed.

Double click on **jdk-6u23-windows-i586.exe** located in the COTS folder and follows instructions in order to install it.

# COTS

This part describes the installation of software needed to run the Process Engine server.

## JBoss installation

The Process Engine server application has been developed on the JBOSS server available in the COTS folder.

* Unzip **jboss-as-7.x.zip** in its installation directory (we will call it [JBOSS-INSTALL-DIRECTORY]).
* Create an environment variable named JBOSS\_HOME locating the [JBOSS-INSTALL-DIRECTORY] folder.
* Execute the [JBOSS-INSTALL-DIRECTORY]/bin/**add-user.bat** batch file and follow instructions in order to create a user to access the *Administration Console*.

## H2 installation

The Process Engine server repository is based on H2 database embedded in JBOSS.

# Configuration

This part gives a description of the configuration of H2.

## Configure Datasource

* Edit the *standalone-full.xml* file located into [JBOSS\_INSTALL\_DIRECTORY]/standalone/configuration and add the following code between the tags <datasources> :

<datasource jndi-name="java:/**ProcessEngineDS**" pool-name="**ProcessEngineDS**" enabled="true" use-java-context="true">

<connection-url>**jdbc:h2:tcp://localhost/processEngine**</connection-url>

 <driver>h2</driver>

<security>

 <user-name>**sa**</user-name>

<password>**sa**</password>

</security>

</datasource>

## Test JBoss installation

* Start JBOSS server by executing the [JBOSS\_INSTALL\_DIRECTORY]/bin/standalone.bat batch file with the following arguments:
	+ **--server-config=standalone-full.xml**
	+ **-b 0.0.0.0**

The first argument tells JBOSS to use the *standalone-full.xml* file previously modified.

The second argument force JBOSS to accept remote connection.

* Open a browser and access to JBOSS administration main page with the address : http://**[SERVER-IP-ADDRESS]**:8080 where [SERVER-IP-ADDRESS] represents the IP address of the server where JBOSS has been installed.

If you should see the page below, the JBoss application server is running.


# Deployment

Here we are going to explain how to deploy the Process Engine server application.

* From the server where JBOSS has been installed, open a browser and access to JBOSS administration page (§ 4.4)
* Click on the *Administration Console* html link and specify the *username* and the *password* entered during user creation process (§ 3.1)
* In the JBOSS *Administration Console*, choose *Runtime* tab then choose *Manage Deployments* under the *Deployments* item menu on the left and click on the *Add Content* button.

* In the dialog box, click the Browse... button, select the **process-engine.war** file located into the **ProcessEngine** folder then click on *Next*.

* Click on the *Save* button.

* You should now see the web archive file listed in the *Deployments* table :

* Click on the *Enable* button and confirm you want to enable **process-engine.war**.

🡺 You should see a message in the *Administration Console* confirming the deployment has been done successfully. You can also see the result of this deployment in the console where JBOSS has been started.

# Database Configuration

## H2 managing

Jboss provides a GUI to manage H2 databases. To launch it, double-clic on the jar file :

[JBOSS-INSTALL-DIRECTORY]\modules\com\h2database\h2\main\h2-1.3.168.jar

# Test PMTool Editor