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KIE Workbench KIE Execution Server

Installation & Configuration Guide

Java v8 Tomcat v9 KIE-DROOLS Workbench v7.11.0.Final KIE-DROOLS Execution Server v7.11.0.Final

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CHANGE HISTORY

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1. Introduction

This guide is prepared for Proof of Concept for KIE Workbench, KIE Execution Server installation and configuration on Java v8 and Tomcat v9 or v8. This guide provides step by step instructions to prove the below concept.

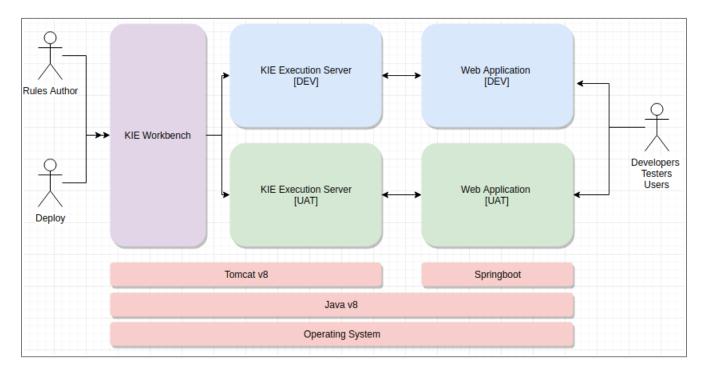
- A centralized KIE Workbench
 - to author the rules
 - deploy changes to target Kie Execution Server for Rules Execution
- Call Authored Rules from a Sample Springboot and retrieve the Rule Results using REST API

Please refer Section#3 Context of Proof Of Context for more details

2. Environment Details

- KIE Drools Workbench 7.11.0 Final
- o KIE Server 7.11.0 Final
- Tomcat v8 or v9
- Java v8
- Ubuntu/Linus/Windows
- Maven

3. Context of Proof of Concept



4. Installation Step: 1 - Installing Java v8

Please follow standard Java installation steps

5. Installation Step: 2 – Installing Tomcat v9

Download appropriate tomcat software from https://tomcat.apache.org/download-80.cgi
Create a folder for KIE Workbench Tomcat Server and create X no of folders for KIE Servers.

Note: Before starting Tomcat Servers, <TOMCAT_HOME>/conf/server.xml needs to be configured to avoid Port conflicts among KIE Workbench and KIE Servers. These ports have to be different in order to run multiple Tomcat instances.

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Tomcat v8 or v9 Configuration

KIE-Workbench

<TOMCAT HOME>/bin/setenv.sh or SetEnv.bat

CATALINA_OPTS="-Xmx2048M -Djava.security.auth.login.config=\$CATALINA_HOME/webapps/kie-drools-wb/WEB-INF/classes/login.config -Dorg.jboss.logging.provider=jdk"

KIE-Execution Server

<TOMCAT HOME>/bin/setenv.sh or SetEnv.bat

CATALINA_OPTS="-Xmx1024M

- -Djbpm.tsr.jndi.lookup=java:comp/env/TransactionSynchronizationRegistry
- -Dorg.kie.server.persistence.ds=java:comp/env/jdbc/jbpm
- -Djbpm.tm.jndi.lookup=java:comp/env/TransactionManager
- -Dorg.kie.server.persistence.tm=JBossTS
- -Dhibernate.connection.release mode=after transaction
- -Dorg.kie.server.id=tomcat-kieserver
- -Dorg.kie.server.location=http://localhost:8383/kie-server/services/rest/server
- -Dorg.kie.server.controller=http://localhost:8080/kie-drools-wb/rest/controller

Note: host: localhost and Port, replace with your local tomcat setup

6. Installation Step: 3 - Installing KIE-Workbench 7.11.0 Final

Copy following jar files in the <TOMCAT HOME>/lib of KIE Workbench

- 1. btm-tomcat55-lifecycle-2.1.4.jar
- 2. h2-1.3.161.jar
- 3. jta-1.1.jar
- 4. slf4j-api-1.7.2.jar
- 5. slf4j-jdk14-1.7.2.jar
- 6. kie-tomcat-integration-7.11.0.Final.jar
- 7. javax.security.jacc-api-1.6.jar

copy following files to <TOMCAT_HOME>/conf/ server.xml

btm-config.properties

tomcat-users.xml [note: DO NOT Change passwords for serveruser & kieserver]

Note: Copy all the above files from the following git hub https://github.com/Mallesh-Nagothi/kie-on-tomcat/tree/master/other_files/apache-tomcat-8.5.57

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7. Installation Step: 4 - Installing KIE-Execution Server 7.11.0 Final

Copy following jar files in the <TOMCAT HOME>/lib of KIE execution Server

- 1. h2-1.3.161.jar
- 2. slf4j-api-1.7.2.jar
- 3. slf4j-jdk14-1.7.2.jar
- 4. kie-tomcat-integration-7.11.0.Final.jar
- 5. javax.security.jacc-api-1.6.jar

copy following files to <TOMCAT_HOME>/conf/ server.xml btm-config.properties tomcat-users.xml [note: DO NOT Change passwords for serveruser & kieserver] xa-recovery-properties.xml

Note: Copy all the above files from the following git hub https://github.com/Mallesh-Nagothi/kie-on-tomcat/tree/master/other_files/apache-tomcat-9.0.37 2nd KieServer

8. Installation Step: 5 – Installing Example Rule Project

Login into KIE-Workbench as admin user (admin/admin) click on settings on right top corner 2nd icon from left to right



Click on Artifacts, using upload option, upload the following files

KIE-Drools-POC-1.0.0.jar & KIE-Drools-POC-1.0.0.pom

Note: Download the above file from the following git hub https://github.com/Mallesh-Nagothi/kie-on-tomcat

Go to Projects → Select KIE-Drools-POC Project, build and deploy

9. Installation Step: 6 - Installing Springboot PoC Code

Clone Springboot PoC drools client application from https://github.com/Mallesh-Nagothi/kie-on-tomcat.git Login to Eclipse and import as existing maven project Open HandlingFormSubmissionApplication.java and Run the Application

open browser and enter http://localhost:9090/person

Enter Name, Age (>=21), Gender (M), Target Container (KIE-Drools-POC) and Rule Name (Sample-Process)

Please see below screenshot for more details on Target Container and Rule Name

