

Tomcat Installation Guide

DomsGui

MIA-136-001, version 1.0

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CONTENTS

| | | |
|---|---|---|
| 1 | INTRODUCTION | 2 |
| 2 | REQUIREMENTS | 2 |
| 3 | DOWNLOAD EMBEDDED JBOSS..... | 2 |
| 4 | INSTALLING EMBEDDED JBOSS INTO TOMCAT 6.0 | 2 |
| 5 | CONFIGURING TOMCAT TO INITIALIZE EMBEDDED JBOSS | 3 |
| 6 | CONFIGURING TOMCAT TO SCAN EVERY WAR BY DEFAULT..... | 3 |
| 7 | ENVIRONMENT VARIABLES | 4 |
| 8 | INSTALLING DOMSGUI IN TOMCAT | 4 |

1 Introduction

In this document the steps needed to install the DomsGui on Tomcat 6.x are described.

2 Requirements

In the following sections its assumed that the follows software has been installed on the machine hosting DomsGui:

- Java 6 (JRE)
- Tomcat 6.x

3 Download Embedded Jboss

To allow the DomsGui to run on Tomcat and instance of “Embedded Jboss” must be installed.

Embedded Jboss can be downloaded via:

<http://www.jboss.org/community/wiki/EmbeddedJBoss>

Please choose version *embedded-jboss-beta3.zip*.

4 Installing Embedded JBoss into Tomcat 6.0

After downloading the Embedded JBoss unzip the archive and do the following:

1. Copy all files and directories under `embedded-jboss/bootstrap` into tomcat's `lib/` directory, **except** the `jndi.properties` file
2. Copy all `.jar` files under `embedded-jboss/lib` into tomcat's `lib/` directory
3. Remove the `lib/annotations-api.jar` file. Tomcat 6.0 erroneously puts `PersistenceContextType` as an inner class of the `@PersistenceContext` annotation.

After installation, your tomcat distribution should look something like this:

```
apache-tomcat-6.0.13/  
  lib/  
    conf/  
    deploy/  
    deployers/  
    log4j.xml  
    thirdparty-all.jar  
    hibernate-all.jar  
    jboss-embedded-all.jar  
    ... all the other jars
```

5 Configuring Tomcat to Initialize Embedded JBoss

Embedded JBoss is bootstrapped by a Tomcat Listener configured in `conf/server.xml` of your tomcat distribution:

```
<Listener className="org.jboss.embedded.tomcat.EmbeddedJBossBootstrapListener" ></Listener>
```

This listener should come under the `Server` element in `server.xml`. The position of this listener is important as it must come after other configured listeners as illustrated below:

```
<Server port="8005" shutdown="SHUTDOWN">

  <!-- Comment these entries out to disable JMX MBeans support used for the
        administration web application -->
  <Listener className="org.apache.catalina.core.AprLifecycleListener" ></Listener>
  <Listener className="org.apache.catalina.mbeans.ServerLifecycleListener" ></Listener>
  <Listener className="org.apache.catalina.mbeans.GlobalResourcesLifecycleListener" ></Listener>
  <Listener className="org.apache.catalina.storeconfig.StoreConfigLifecycleListener"></Listener>

  <Listener className="org.jboss.embedded.tomcat.EmbeddedJBossBootstrapListener" ></Listener>
```

6 Configuring Tomcat to scan every WAR by default

Embedded JBoss must be configured to automatically scan each and every web app Tomcat deploys for JBoss components. To do this you modify the default context configuration file of tomcat located in `apache-tomcat/conf/context.xml` and add the Embedded JBoss `org.jboss.embedded.tomcat.WebinfScanner` listener class as illustrated below:

```
!-- The contents of this file will be loaded for each web application -->
<Context>

  <!-- Default set of monitored resources -->
  <WatchedResource>WEB-INF/web.xml</WatchedResource>

  <!-- Uncomment this to disable session persistence across Tomcat restarts -->
  <!--
  <Manager pathname="" />
  -->

  <Listener className="org.jboss.embedded.tomcat.WebinfScanner" ></Listener>

  <!-- Uncomment this to enable Comet connection tacking (provides events
        on session expiration as well as webapp lifecycle) -->
  <!--
  <Valve className="org.apache.catalina.valves.CometConnectionManagerValve" />
  -->

</Context>
```

7 Environment variables

The following environment variable must be defined to allow the Embedded JBoss to work correctly in Tomcat 6 running on Java 6:

JAVA_OPTS=-Dsun.lang.ClassLoader.allowArraySyntax=true

8 Installing DomsGui in Tomcat

To install DomsGui simply copy *DomsGui.war* to *\$CATALINA_HOME/webapps*