

# JBoss Deployment

## Introduction

This document assumes that you have downloaded the War File Binary Distribution Zip from JasperForge.org.

The steps described in this document are also specified in the JasperServer Install Guide.

The default assumed database configuration is MySQL. Other databases can be supported similar to the way that MySQL support is described below.

The War File Binary Distribution is named:

jasperserver-<ver>-bin.zip.

## Prepare for Deployment

You can get the jasperserver.war file either by building from source code or from obtaining it from the War File Distribution from JasperForge.org.

If you built from source code, you will have both an archived war file (filename: jasperserver.war) and an "exploded", unarchived war file (filename: jasperserver). These will be found in the <js-src>/jasperserver-war/target directory.

If you downloaded the War File Binary Distribution from JasperForge.org, then you will only have an archived war file (filename: jasperserver.war).

In order to deploy under JBoss you will need to add a jboss-web.xml file inside your jasperserver.war. The easiest way to do this is to "unarchive" or "explode" the jasperserver.war file. Then you can also deploy to JBoss using the unarchived jasperserver directory.

## Create "Unarchived" War File

- Start with the jasperserver.war file.
- Copy the jasperserver.war file to the JBoss deployment directory
  - cp jasperserver.war to
  - <jboss>/server/default/deploy
- Unpack the war to a new directory
  - cd <jboss>/server/default/deploy
  - mkdir jasperserver
  - cd jasperserver
  - jar xvf ../jasperserver.war
  - cd ..
- Remove the original war file
  - rm -r jasperserver.war
- Rename the "jasperserver" directory to "jasperserve.war"
  - mv jasperserver jasperserve.war
  - JBoss wants the directory name to end with ".war"

## Make War File and Database Configurations

- From `<js-war-file-dir>/scripts/jboss` get the `js-mysql-ds.xml` file.
  - Update with your own database settings
  - `cp js-mysql-ds.xml` to
  - `<jboss>/server/default/deploy`
- From `<js-war-file-dir>/scripts/jboss` get the `jboss-web.xml` file
  - The settings should work unchanged for a standard JasperServer instance
  - `cp jboss-web.xml` to
  - `<jboss>/server/default/deploy/jasperserver.war/WEB-INF`
- Check the `hibernate.properties` file.
  - By default, it has MySQL settings.
  - Location is: `<jasperserver.war>/WEB-INF/hibernate.properties`
- Copy the appropriate database driver to JBoss
  - `cp` the correct driver from `<js-war-file-dir>/scripts/drivers` to
  - `<jboss>/server/default/lib`

## Create JasperServer Databases

Please see the JasperServer Install Guide for information on setting up the JasperServer databases.

## Memory Settings

See the Troubleshooting section of the `docs/JasperServer-Install-Guide.pdf` for information on memory settings for JBoss.

Edit `<jboss>/bin/run.sh` (or `run.bat` under Windows):

Add to your `JAVA_OPTS` setting:

```
-Xms512m -Xmx1024m
```

Another memory resource related error is running out of PermGen space. If you encounter an error relating to PermGen space you can make the following additional updates to your `JAVA_OPTS`:

```
-XX:PermSize=128m -XX:MaxPermSize=512m
```

## Delete log4j.jar

JBoss is normally distributed with the log4j facility enabled. JBoss initializes the `log4j.jar` at JBoss startup. JasperServer also includes and uses log4j. When JBoss loads the JasperServer war file, there is a JBoss logging error (`log4j:ERROR "org.jboss.logging.util.OnlyOnceErrorHandler"`). This error is not fatal to JasperServer, but can cause confusion when seen at JBoss startup.

To get rid of this error, we will delete the `log4j.jar` found in JasperServer.

Delete the following jar:

```
del <jasperserver.war>/WEB-INF/lib/log4j-<ver>.jar
```

## Start JBoss and JasperServer

Start the JBoss server using `<jboss>/bin/run.sh` (or `run.bat` under Windows).

Login to JasperServer at:

<http://localhost:8080/jasperserver>

Login Username:       jasperadmin  
Login Password:       password

Note: The jasperserver database scripts setup a default user "jasperadmin" with a default password of "password".

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