

Installing and Deploying Liferay Portal on Weblogic 10.3

This paper contains a work through on how to deploy Liferay portal on Weblogic 10.3.

The following are the steps needed to deploy Liferay on Weblogic 10.3

1- Prerequisite

you need to have some configuration set before you start configuring Liferay. Those configuration include

- Weblogic Domain
- Install JDK. Preferably, use the SDK that's bundled with Weblogic installation.
- Install ANT version 1.7.0 or higher
- Setup the JAVA_HOME and ANT_HOME and add ANT_HOME, and JAVA_HOME to environment variables in “My Computer” → “Properties” → “Advanced” → “Environment Variables” to where you installed Ant and the JDK.
- Add “%ANT_HOME%\bin” and “%JAVA_HOME%\bin” to PATH system variable in “Environment Variables”.

2- Database and Email Configurations

In this paper we are using Oracle 10g to configure the database for Liferay. There are two ways for deploying Liferay database on Oracle DBMS. You can either download a dump file and upload it to Oracle directly or download a file that contains all the sql statements that will build Liferay database..For first time configuration you can use the following information for creating a JDBC datasource:

```
URL: jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=[HOST IP ADDRESS])(PORT=1521))(CONNECT_DATA=(service_name=[SERVICE NAME])))  
Driver class: oracle.jdbc.OracleDriver  
Properties: user=[DB USER]  
Password: *****
```

You need to replace the information [HOST IP ADDRESS], [PORT], [SERVICE NAME], [DB USER] and the password with the settings in your configuration.

Next we need to configure the data source in Weblogic console.

1. Select ODBC → Data Sources. Click New.
2. Give your data source a name, such as Liferay Data Source. The JNDI name should be jdbc/LiferayPool.
3. Choose the type of database. The database driver class should be chosen for you automatically.
4. Click next twice. You should be then on the Connection Properties screen. Enter the database name, the host name, the port, the database user name, and the password. WebLogic will use this information to construct the appropriate JDBC URL to connect to your database. Finally click Next.
5. WebLogic will now confirm to you the information that it gathered.
6. Click Test Configuration to make sure WebLogic can connect to your database successfully. If it does, click Finish.
7. You will be back to the list of data sources. Notice that your new data source has no value in the Target column. Click on your data source to edit it.
8. Click the Targets tab and check on the server instance(s) to which you wish to deploy your data source. Then click Save.

E-Mail Configuration

1. Select Mail Sessions and create a new mail session which points to your mail server.
2. Give it the name Liferay Mail and give it the JNDI name of mail/MailSession and click on Next.
3. Choose your server and then click Finish.

3- Server Setup

Follow these easy steps to configure Liferay 5.2.3 to work on Weblogic 10.3

- Create or use an existing Weblogic domain. Here we assume that we have created a domain named "mydomain" which is located in C:\weblogic103\domains
- Download liferay-portal-5.2.3-with-dependencies.war file from Liferay website or from Sourceforge.org
- Save the file liferay-portal-5.2.3-with-dependencies.war in C:\weblogic103\user_projects\build\applications
- Go to C:\weblogic103\domains\mydomain\lib and add the following Jars (use can find them in liferay-portal-dependencies-5.2.3.zip which you can download from liferay website, or you can extract them from the file liferay-portal-5.2.3-with-dependencies.war)
 - annotations.jar
 - hsqldb.jar (Only if you want to run Hybersonic database). However, it's recommended that you do it. since we will run Liferay on Hybersonic, then we will configure it work on Oracle
 - saw-api-0.7.jar
 - xercesImpl.jar
- Add JDK endorsed files. Go to C:\weblogic103\jdk160_05\jre\lib\endorsed and add the following Jars
 - serializer.jar
 - xalan.jar
- Now Start Weblogic server.
- After server is started. Navigate to the file liferay-portal-5.2.3-with-dependencies.war and deploy it as web application.
- The start the web application. (You may need to restart the server)
- Go to <http://localhost:8080> and you should see Liferay portal is running.

The above steps are the steps needed to deploy Liferay on Webogic. However, the Liferay will use the built in Database hybersonic, since we did not tell Liferay to use Oracle yet. To do that

- Go to C:\weblogic103\domains\mydomain
- Create a file called portal-ext.properties and add the following values in that file

```
##  
## you can override portal.properties by specifying your own settings.  
##  
jdbc.default.jndi.name=jdbc/LiferayPool  
mail.session.jndi.name=mail/MailSession
```

If you are using EXT (development) then you don't have to create the property file in C:\weblogic103\domains\mydomain you can use portal-ext.properties which is located in /ext/ext-impl/src/portal-ext.properties file.