

## FuGE Project : FuGE EJB 3.0 STK Build and Deployment

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This page last changed on Jul 22, 2008 by [Leandro.Hermida@fmi.ch](mailto:Leandro.Hermida@fmi.ch).

### Create MySQL Database

Log into the MySQL server as root and create our database:

```
mysql> create database fuge_ejb3_stk default character set = utf8;
```

Or specify the default collation if don't want **utf8\_general\_ci**, which is the default for utf8:

```
mysql> create database fuge_ejb3_stk default character set = utf8 default collation = utf8_bin;
```

### Export Model as EMF-UML2 (v1.x) XMI in MagicDraw

Start up MagicDraw:

```
[user@server ~]$ mduml &
```

Open up the model **/home/user/workspace/fuge-ejb3-stk/mda/src/main/uml/fuge-ejb3-stk.xml**.

It will first ask you if you want to define the path variable **maven2.repository**, click **Yes** to define it:

- Name: maven2.repository
- Value: /home/user/.m2.repository
- Description: Maven2 Local Repository

Select **File -> Export -> EMF-UML2 (v1.x) XMI**. It should already specify the <project.dir> (/home/user/workspace/fuge-ejb3-stk/mda/src/main/uml) output folder as the output location. Click OK and then export.

### Build, Clean and Deploy Procedures

From within the AndroMDA **/home/user/workspace/fuge-ejb3-stk** project top-level directory:

To build the entire project using the default local profile settings:

```
[user@server fuge-ejb3-stk]$ mvn install
```

It should say **BUILD SUCCESSFUL** at the end.

If you have your JBoss AS server running locally in another window then you can also deploy to it after building and watch the deployment process:

```
[user@server fuge-ejb3-stk]$ mvn install -Ddeploy
```

This will copy **fuge-ejb3-stk-1.0-SNAPSHOT.ear** and **fuge-ejb3-stk-ds.xml** into **\$JBOSS\_HOME/server/default/deploy**. The easiest way to undeploy is to simply delete both those two files from that directory and JBoss will then automatically hot undeploy them.

In order to build the project using any of the other profile settings (dev, val, prod):

```
[user@server fuge-ejb3-stk]$ mvn install -Denv=prod
```

Then, in order to deploy, you need to manually copy **app/target/fuge-ejb3-stk-1.0-SNAPSHOT.ear** and **app/target/fuge-ejb3-stk-ds.xml** into **\$JBOSS\_HOME/server/default/deploy** on the remote server.

To clean a project build before rebuilding:

```
[user@server fuge-ejb3-stk]$ mvn clean
```

## Adding Project to Eclipse (optional but recommended)

If you installed and are using Eclipse you will want to import this project. Building it automatically creates/updates the necessary Eclipse files inside the project folder so that you can open it in Eclipse. First launch eclipse and then go to **File -> Import... -> General -> Existing Projects into Workspace** and click Next. Choose **Select root directory** and browse to the full path of your workspace (e.g. /home/user/workspace) and by default the fuge-ejb3-stk project folder you created above will be selected. Click Finish to import the project.

## Next Steps

Now that we have our FuGE EJB 3.0 STK implementation and you can then build application components on top of this.