Building SCRIPTUM Development Environment

Michael Mountrakis mountrakis@uit.gr

Κατάλογος περιεχομένων

Contents of Trunk

Scriptum Sources can be brawsed in the following URL:

https://svn.ellak.gr/scriptum/trunk

The Trunk projects are:

ScriptumModel

Contains the Hibernate Model (DAOs και Domains) of the SCRIPTUM database for eProtocol and Case Management system.
ScriptumModel/doc/model.mwb Is the DB Schema. View it with DBDesigner4
ScriptumModel/doc/ellak.sql is the MySQL Create Schema
ScriptumModel/doc/ellak-mysql-ds.xml is the Jboss DataSource
DB Author M.Mountrakis
Model Author A.Anagnostopoulos

eProtocolServices

Contains the following:
WS client interfaces to OpenKM
MailClient interfaces for POP3/IMAP/IMAPS.
DIAVGEIA.GOV.GR interface
Depends on ScriptumModel.
Author M.Mountrakis

eProtocolWebService

Contains the WS Server implementation to eProtocol. Alter `web.xml` to setup the OpenKM

Account that will be used from service in order to connect to local OpenKM. **Depends on** ScriptumModel
Author M.Mountrakis

MailDaemon
Contains the MailDaemon Mbean that fetches and send mails to and from eProtocol. Deployed as SAR in Jboss. OpenKM user and pass are set from the JMX console. Go to the JMX Console configuration of this Mbean and change the openKmUser, openKmPass. This will be changed soon.
Depends on ScriptumModel, eProtocolServices.
Author M.Mountrakis

eProtocol
Contains the eProtocol Web application.
Depends on ScriptumModel, eProtocolServices
Author A.Anagnostopoulos, M.Mountrakis

eCase
Contains the eCase Web application.
Depends on ScriptumModel, eProtocolServices
Author A.Anagnostopoulos, M.Mountrakis

Scriptum
The SCRIPTUM Project EAR container.
Contains the `eProtocol.war, MailDaemon.sar, eProtocolWebService.war` .
Depends on ScriptumModel, eProtocolServices, MailDaemon, eProtocolWebService
Author A.Anagnostopoulos

Basic Steps to create the Scriptum Environment

1. **Create the OpenKM installation . Follow *OpenKM Installation***
2. **Build the Scriptum Sources. Follow *Basic Build Instructions***
3. **Create Scriptum Database.**
4. **Deploy Scriptum**
5. **Start the Jboss4.2.3GA server**

OpenKM Installation

Download OpenKM 5.

The direct download address from sourceforge.org is the following one:

http://sourceforge.net/projects/openkm/files/5.0/OpenKM-5.0.4_JBoss-4.2.3.GA.zip/download?use_mirror=dfn

Unzip/Untar it. You can also setup the OpenKM/Jboss4.2.3GA as a server inside Eclipse but this is optional.

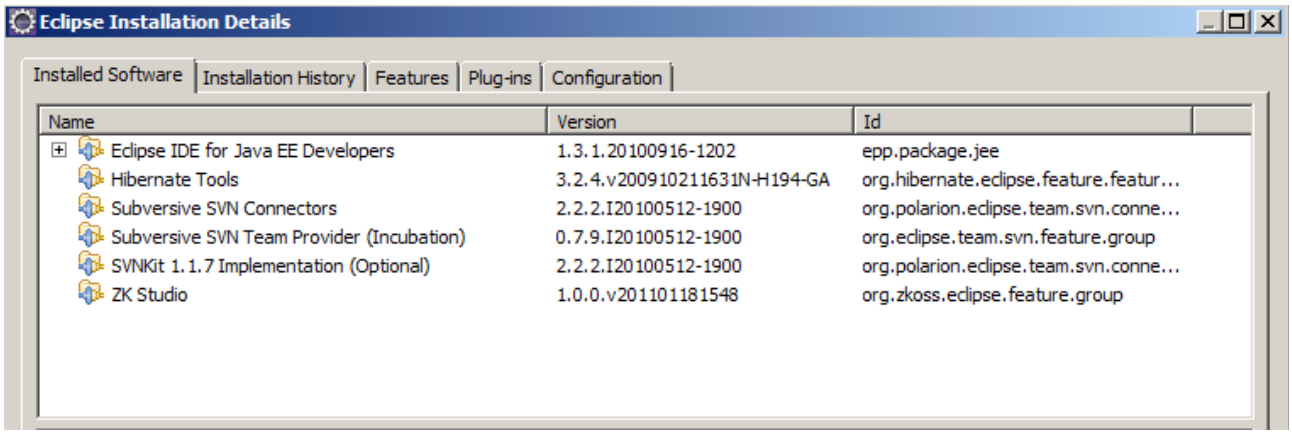
Optionally, you can also setup OpenKM to use MySql Database for storing the file repository. This can be done by following the instructions given by OpenKM manual page:

http://wiki.openkm.com/index.php/Installation_Guide

Basic Build Instructions

Eclipse Requirements

Requires ECLIPSE with SVN plugin. A typical Eclipse Installation Details (Eclipse → Help → About Eclipse → Installation Details shows:



Add Jboss4.2.3GA to Eclipse

Add the Jboss4.2.3GA that came bundled with OpenKM in previous step as a runtime environment in your Eclipse Workspace.

SVN Connection

Create inside your Eclipse Work Space an SVN connection to ELLAK REDMINE/Scriptum project at URL:

https://svn.ellak.gr/scriptum/trunk

Build Steps

1. Checkout all projects from the SVN connection from previous step.
2. Run build.xml inside project **ScriptumModel**. This will build all the Hibernate middleware
3. Run **eProtocolServices** → DesignDocuments → JAR_description.jardesc by double clicking it. (instead you can manually do an Export Jar of project eProtocolServices and save the jar inside Scriptum/lib)
4. Run build.xml inside project **MailDaemon**. This will build the maildaemon.sar

Create SCRIPTUM Database

1. Create a MySQL user called 'scriptum' and a schema called 'scriptum' using the following MySQL commands:

- `CREATE DATABASE scriptum DEFAULT CHARACTER SET utf8 DEFAULT COLLATE utf8_unicode_ci;`
- `CREATE USER scriptum@localhost IDENTIFIED BY 'scriptum';`
- `GRANT ALL ON scriptum.* TO scriptum@localhost WITH GRANT OPTION;`
- `FLUSH PRIVILEGES;`

2. Run the `scriptum.sql` script, located in the project's **ScriptumModel** 'doc' folder in the MySQL engine.

- `# mysql -u scriptum -p scriptum < scriptum.sql`

Deploy SCRIPTUM

1. **Deploy the Hobernate** Model: Copy ScriptumModel/ScriptumModel.har inside %JBOSS_HOME%/server/default/deploy
2. **Deploy the Data Source**: **Change the user name/password** with the one you entered when created the database inside elak-mysql-ds.xml. Copy elak-mysql-ds.xml inside %JBOSS_HOME%/server/default/deploy
3. **Deploy the Scriptum.EAR** inside %JBOSS_HOME%/server/default/deploy

Start the server

Inside %JBOSS_HOME%/bin edit run.bat file and add the following parameters:

```
set JAVA_OPTS=%JAVA_OPTS% -Xms512m -Xmx1024m
```

change to:

```
set JAVA_OPTS=%JAVA_OPTS% -Xms512m -Xmx1024m -XX:
+CMSClassUnloadingEnabled -XX:+CMSPermGenSweepingEnabled
-XX:PermSize=128M -XX:MaxPermSize=256M
```

Start Jboss:

linux:

```
myserver# $JBOSS_HOME/bin/run.sh -b 0.0.0.0 &
```

Windows:

```
C:\jboss-4.2.3.GA\bin>run.bat -b 0.0.0.0
```

OpenKM is accessed in the following URL:
http://localhost:8080/OpenKM
Connect as : okmAdmin/admin

Add user1/user1 as an OpenKM user.

eProtocol is accessed in the following URL:

http://localhost:8080/eProtocol/index.zul
Connect as : okmAdmin/admin

eCase is accessed in the following URL:
http://localhost:8080/eCase/index.zul
Connect as : okmAdmin/admin