Install the OpenKM with MySQL

Install OpenKM

Download OpenKM. Unzip it in /opt.

Install MySQL Java Connector

Install mysql-connector-java-5.1.12-bin.jar

Download MySQL JDBC driver from MySQL Home Page and move it to *$JBOSS_HOME/server/default/lib*.

(Beware, the file already exists in OpenKM versions over 5)

Create the MySQL Databases for OpenKM:

Starting with OpenKM 5.0, only two databases are needed:

```
DROP DATABASE IF EXISTS okm_repo;
DROP DATABASE IF EXISTS okm_app;

CREATE DATABASE okm_repo DEFAULT CHARACTER SET utf8 DEFAULT COLLATE utf8_bin;
CREATE DATABASE okm_app DEFAULT CHARACTER SET utf8 DEFAULT COLLATE utf8_bin;

CREATE USER 'openkm'@'localhost' IDENTIFIED BY 'scr$123';
GRANT ALL ON okm_repo.* TO 'openkm'@'localhost' WITH GRANT OPTION;
GRANT ALL ON okm_app.* TO 'openkm'@'localhost' WITH GRANT OPTION;
```

Test if the user and privilliges was created by entering:

[root@nagios deploy]#mysql -uopenkm -p okm_app

[root@nagios deploy]# mysql -uopenkm -p okm_repo

Configure JBoss datasources

```
$ vim $JBOSS_HOME/server/default/deploy/openkm-ds.xml

<local-tx-datasource>
    <jndi-name>OpenKMDS</jndi-name>
    <connection-url>jdbc:mysql://localhost:3306/okm_app?
autoReconnect=true</connection-url>
    <driver-class>com.mysql.jdbc.Driver</driver-class>
    <user-name>openkm</user-name>
    <password>scr$123</password>
    <min-pool-size>5</min-pool-size>
    <max-pool-size>20</max-pool-size>
    <idle-timeout-minutes>28680</idle-timeout-minutes>
    <exception-sorter-class-
name>com.mysql.jdbc.integration.jboss.ExtendedMysqlExceptionSorter</exception-
sorter-class-name>
    <valid-connection-checker-class-
name>com.mysql.jdbc.integration.jboss.MysqlValidConnectionChecker</valid-
connection-checker-class-name>
```

```
    <metadata>
        <type-mapping>mySQL</type-mapping>
    </metadata>
</local-tx-datasource>
```

The type mapping should match a type-mapping/name element from *$JBOSS_HOME/server/default/conf/standardjbosscmp-jdbc.xml*. Example configurations for many third-party JDBC drivers are included in the *$JBOSS_HOME/docs/examples/jca* directory.

You may be interested in Encrypting DataSource Passwords.

Configuring OpenKM Repository to Work with MySQL

Replace the $JBOSS_HOME/repository.xml with the following one:
`$ vim $JBOSS_HOME/repository.xml`
You can change it by editing OpenKM.cfg. For more information see Application configuration.

```
<?xml version="1.0"?>
<!DOCTYPE Repository PUBLIC "-//The Apache Software Foundation//DTD Jackrabbit
1.6//EN"
                            "http://jackrabbit.apache.org/dtd/repository-
1.6.dtd">
<Repository>
    <!-- virtual file system where the repository stores global state
        (e.g. registered namespaces, custom node types, etc.) -->
    <FileSystem class="org.apache.jackrabbit.core.fs.local.LocalFileSystem">
        <param name="path" value="${rep.home}/repository"/>
    </FileSystem>

    <!-- Security configuration -->
    <Security appName="OpenKM">
        <!-- Access manager: FQN of class implementing the AccessManager
interface -->
        <AccessManager class="com.openkm.core.OKMAccessManager"/>
        <!-- <AccessManager
class="org.apache.jackrabbit.core.security.SimpleAccessManager"/> -->
        <!-- <AccessManager
class="org.apache.jackrabbit.core.security.DefaultAccessManager"> -->
            <!-- <param name="config" value="${rep.home}/access.xml"/> -->
        <!-- </AccessManager> -->
    </Security>

    <!-- Location of workspaces root directory and name of default workspace -->
    <Workspaces rootPath="${rep.home}/workspaces" defaultWorkspace="default"/>

    <!-- Workspace configuration template:
         used to create the initial workspace if there's no workspace yet -->
    <Workspace name="${wsp.name}">
        <!-- Virtual file system of the workspace:
             class: FQN of class implementing the FileSystem interface -->
        <FileSystem class="org.apache.jackrabbit.core.fs.local.LocalFileSystem">
            <param name="path" value="${wsp.home}"/>
        </FileSystem>

        <!-- Persistence manager of the workspace:
             class: FQN of class implementing the PersistenceManager interface
-->
        <PersistenceManager
class="org.apache.jackrabbit.core.persistence.bundle.MySqlPersistenceManager">
          <param name="driver" value="com.mysql.jdbc.Driver"/>
          <param name="url" value="jdbc:mysql://localhost:3306/okm_repo?
```

```
autoReconnect=true"/>
          <param name="schema" value="mysql"/>
          <param name="user" value="openkm"/>
          <param name="password" value="scr$123"/>
          <param name="schemaObjectPrefix" value="${wsp.name}_"/>
          <param name="externalBLOBs" value="false"/>
        </PersistenceManager>

        <!-- Search index and the file system it uses.
             class: FQN of class implementing the QueryHandler interface -->
        <SearchIndex
class="org.apache.jackrabbit.core.query.lucene.SearchIndex">
            <param name="path" value="${wsp.home}/index"/>
            <param name="textFilterClasses" value="
            org.apache.jackrabbit.extractor.PlainTextExtractor,
            org.apache.jackrabbit.extractor.MsWordTextExtractor,
            org.apache.jackrabbit.extractor.MsExcelTextExtractor,
            org.apache.jackrabbit.extractor.MsPowerPointTextExtractor,
            org.apache.jackrabbit.extractor.OpenOfficeTextExtractor,
            org.apache.jackrabbit.extractor.RTFTextExtractor,
            org.apache.jackrabbit.extractor.HTMLTextExtractor,
            org.apache.jackrabbit.extractor.XMLTextExtractor,
            org.apache.jackrabbit.extractor.PngTextExtractor,
            org.apache.jackrabbit.extractor.MsOutlookTextExtractor,
            com.openkm.extractor.PdfTextExtractor,
            com.openkm.extractor.AudioTextExtractor,
            com.openkm.extractor.ExifTextExtractor,
            com.openkm.extractor.TiffTextExtractor,
            com.openkm.extractor.SourceCodeTextExtractor,
            com.openkm.extractor.MsOffice2007TextExtractor"/>
            <param name="extractorPoolSize" value="2"/>
            <param name="supportHighlighting" value="false"/>
            <param name="indexingConfiguration" value="$
{wsp.home}/../../../indexing_configuration.xml"/>
        </SearchIndex>
    </Workspace>

    <!-- Configures the versioning -->
    <Versioning rootPath="${rep.home}/version">
        <!-- Configures the filesystem to use for versioning for the respective
             persistence manager -->
        <FileSystem class="org.apache.jackrabbit.core.fs.local.LocalFileSystem">
            <param name="path" value="${rep.home}/version" />
        </FileSystem>

        <!-- Configures the persistence manager to be used for persisting
version state.
             Please note that the current versioning implementation is based on
             a 'normal' persistence manager, but this could change in future
             implementations. -->
        <PersistenceManager
class="org.apache.jackrabbit.core.persistence.bundle.MySqlPersistenceManager">
          <param name="driver" value="com.mysql.jdbc.Driver"/>
          <param name="url" value="jdbc:mysql://localhost:3306/okm_repo?
autoReconnect=true"/>
          <param name="schema" value="mysql"/>
          <param name="user" value="openkm"/>
          <param name="password" value="scr$123"/>
          <param name="schemaObjectPrefix" value="version_"/>
          <param name="externalBLOBs" value="false"/>
        </PersistenceManager>
    </Versioning>

    <!-- Search index for content that is shared repository wide
```

```
        (/jcr:system tree, contains mainly versions) -->
    <SearchIndex class="org.apache.jackrabbit.core.query.lucene.SearchIndex">
        <param name="path" value="${rep.home}/repository/index"/>
        <param name="textFilterClasses" value=""/>
        <param name="extractorPoolSize" value="2"/>
        <param name="supportHighlighting" value="false"/>
    </SearchIndex>

    <!-- DataStore improve file handling performance -->
    <DataStore class="org.apache.jackrabbit.core.data.FileDataStore">
        <param name="path" value="${rep.home}/repository/datastore"/>
        <param name="minRecordLength" value="100"/>
    </DataStore>
</Repository>
```

Directing OpenKM MySql to create the Schema

In the OpenKM release you can create the databases automatically configuring the **hibernate.dialect** and **hibernate.hbm2ddl** properties in OpenKM.cfg. . You can find this file in your server in *$JBOSS_HOME/OpenKM.cfg*.

```
hibernate.dialect=org.hibernate.dialect.MySQL5Dialect
hibernate.hbm2ddl=create
```

Once the tables are created, change the **hibernate.hbm2ddl** property from *create* to *none*.