1 SORL

1.1 What is SORL

SORL is the acronym for Searching On Lucene w/Replication and it is a stand alone enterprise search server which applications communicate with using XML and HTTP to index documents, or execute searches. Find more information about this theme on (http://lucene.apache.org/solr/).

1.2 SORL and KiWi

The KiWi system uses SORL in embedded mode, that means you need to install it(SOLR) fist. If you check up the KiWi project from from the svn then you will also get a SOLR distribution also, this is placed in : root/lib/solr, where root is your project root. You must copy this directory in a know location, because KiWi persistence layer will try to find this location and use it. You can copy it by hand or you can use one the prepareSolr ant task to do this for you, this is the recommended way.

The prepareSolr requires a property named solr.home in the build.properties file, this path is the path for your local SOLR. You also need to configure your persistence unit (persistence-XXX.xml) properly, for this add a new property named kiwi.solr.home with a proper value to the KiWi persistence unit. The XXX value (persistence-XXX.xml) depends on which software life stage you are (dev for developing, test for testing etc).

Here is a rule to follow: the *solr.home* from the *build.properties* file must point on the same path with the *kiwi.solr.home* from the *persistence-dev.xml* file.

Now you must redeploy the kiwi application and to restart the server.

1.3 Path and relative path

Please take care the path specified with the build properties's solr.home property is a absolute path, in the build properties file you can only define absolute paths. The kiwi.solr.home property from the persistence-dev.xml file is more generous, here you can specified absolute and relative paths - the relative paths are relative to the jBoss bin directory (e.g. if you use the solr value for your kiwi.solr.home then the kiwi will search the solr in the JBoss/bin/solr directory).

The way to define absolute or relative paths differ from an operating system to an other. E.g. under ms environment the absolute path starts with a drive letter followed by the double point char or under unix(linux and mac os) with the slash character. All other ways to define a paths are leading to relative paths.

1.4 Troubles with SORL

In most of the cases if the two paths previous described are not pointing to the same location then a run-time exception will raise, the exception will claim a certain SOLR XML specific file. (e.g. "RuntimeException: Can't find resource 'solrconfig.xml' in classpath or"). In this case the path where kiwi search the SORL is wrong. To solve this problem you need to prove if the property named kiwi.solr.home from the deployed persitence.xml (placed in the jBoss.home/server/default/deploy/KiWi.ear/KiWi.jar/META-INF) points to the right path (the path where the SOLR is installed).

The directory where the SOLR is installed must look like :

README.txt bin conf