**Installation**

**Kettle: Linux**

1. Download Kettle v4.2.1, available from SourceForge:
   * **Spoon**
   * <http://sourceforge.net/projects/pentaho/files/Data%20Integration/4.2.1-stable/>
   * Install Java JDK
   * Install Mercurial (e.g. ‘yum install mercurial’)
     1. Grab the repository from <http://hg/projects/maximus/mots/>
     2. May have to change the repository permissions on your machine in order for users other than the root user to be able to modify files (i.e. ‘chmod -R 755 /repositories’)
   * Copy the contents of the ‘kettle.properties’ file in the repository to that of the ‘kettle.properties’ file located in your home directory under the ‘.kettle’ folder
   * Copy the contents of the ‘jdbc.properties’ file in the repository to that of the ‘jdbc.properties’ file located in your pentaho data integration directory under the ‘simple-jndi’ folder
   * Set the following environment variables (e.g. in ‘.bash\_profile’):
     1. KETTLE\_DIR=*<path to Kettle installation, e.g. ~/pentaho/data-integration>*
     2. JAVA\_HOME=*<path to java JDK>*
     3. PATH=$PATH:*<path to Kettle installation>*:*<path to JRE>*
   * Make the \*.sh files executable by issuing the following command in the same directory:
     1. chmod +x \*.sh
   * Uncomment the following lines in the ‘spoon.sh’ script:
     1. # set MOZILLA\_FIVE\_HOME=/usr/local/mozilla
     2. # set LD\_LIBRARY\_PATH=/usr/local/Mozilla
   * Comment the following lines in the ‘spoon.sh’ script:
     1. MOZILLA\_FIVE\_HOME=$(find /usr/lib –maxdepth 1 –name xulrunner-[0-9]\* | head -1)
     2. LD\_LIBRARY\_PATH=${MOZILLA\_FIVE\_HOME}:${LD\_LIBRARY\_PATH}
   * run spoon by issuing the following command while in the pentaho installation directory:
     + sh spoon.sh
   * **Kitchen**
     + Change the following line in the ‘kitchen.sh’ script:
       - BASEDIR=`$0` ***to*** BASEDIR=${KETTLE\_DIR}
     + Change the following line in the ‘kitchen.sh’ script:
       - OPT=”$PENTAHO\_DI\_JAVA\_OPTIONS -cp … $KETTLE\_LOG\_SIZE\_LIMIT” ***to***

OPT=”$PENTAHO\_DI\_JAVA\_OPTIONS -cp … $KETTLE\_LOG\_SIZE\_LIMIT

-DKETTLE\_JNDI\_ROOT=$BASEDIR/simple-jndi”

**Database**

1. Install Oracle XE
2. Install Ant
3. Set the following environment variables:
   * ANT\_HOME=*<path to ant installation>*
   * PATH=$PATH:*<path to Ant installation>*/bin
4. Change directory to ‘/*<path to repository folder>*/kettle/repositories’
5. The ‘build.xml’ has three targets to choose from:
   1. **test**: run tests for each specified project and module
   2. **create-production-database**: create production database(s) for each specified project and module
   3. **create-test-database**: create test database(s)for each specified project and module
6. You can run the build for multiple projects and multiple modules. Ex:

ant create-test-database -Denv=dev -Dprojects=project,corporate -Dmodules=agentperf,productionplan

Or, run for a single project and one or more modules. Ex:

ant create-test-database -Denv=dev -Dprojects=project -Dmodules=agentperf

* Parameters
  + **env**: the environment (Ex: dev, test, prod)
  + **projects**: a list of projects separated by a comma (Ex: project, corporate)
  + **modules**: a list of modules separated by a comma (Ex: agentperf, productionplan)