**Installation**

**Kettle: Windows**

1. Download Kettle v4.2.1, available from SourceForge:
   * <http://sourceforge.net/projects/pentaho/files/Data%20Integration/4.2.1-stable/>
   * Change the following line in the ‘Kitchen.bat’ script:
     + OPT=”$PENTAHO\_DI\_JAVA\_OPTIONS … %KETTLE\_LOG\_SIZE\_LIMIT%” ***to***

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

“-DKETTLE\_JNDI\_ROOT=%KETTLE\_DIR%/simple-jndi”

1. Install Java JDK
2. Install Mercurial (e.g. Tortoise HG)
   * Grab the repository from <http://hg/projects/maximus/mots/>
3. Set the following environment variables:
   * KETTLE\_DIR=*<path to Kettle installation>*
   * JAVA\_HOME=*<path to java>*
   * PATH=*<path to Kettle installation>*;*<path to JRE>*
4. 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
   * C:\Users\*<name>*\.kettle
5. 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
   * C:\*<Kettle dir>*\data-integration\simple-jndi

**Oracle Database install and setup**

1. Install Oracle XE
2. Install Ant
3. Set the following environment variables:
   * ANT\_HOME=*<path to ant installation>*
   * PATH=*<path to Ant installation>*/bin
4. Change directory to ‘C:/*<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 one or more 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)

**SQL Server Database**

1. Download and install SQL Server Express
   * <http://www.microsoft.com/en-us/sqlserver/editions/2012-editions/express.aspx>
2. Download and install SQL Server Management Studio 2012 (non-Express)
   * <http://download.microsoft.com/download/8/D/D/8DD7BDBA-CEF7-4D8E-8C16-D9F69527F909/ENU/x64/SQLManagementStudio_x64_ENU.exe>
3. After installation
   * Open MSSQLServer Configuration Manager
   * Navigate to SQL Server Network Configuration  Protocols for SQLEXPRESS
   * Ensure that TCP/IP Connections are enabled
   * Right-click on TCP-IP and select Properties
   * Select the IP Addresses tab; Scroll down to the very bottom of the properties. *(These steps required for JNDI connection to succeed)*
     1. Remove the value from the TCP Dynamic Ports field of the ‘IP All’ section.
     2. Add the value **1433** to the TCP Port field of the ‘IP All’ section.
   * Restart the **SQL Server (SQLEXPRESS)** Service