# Magentix2 Developer and User Guide



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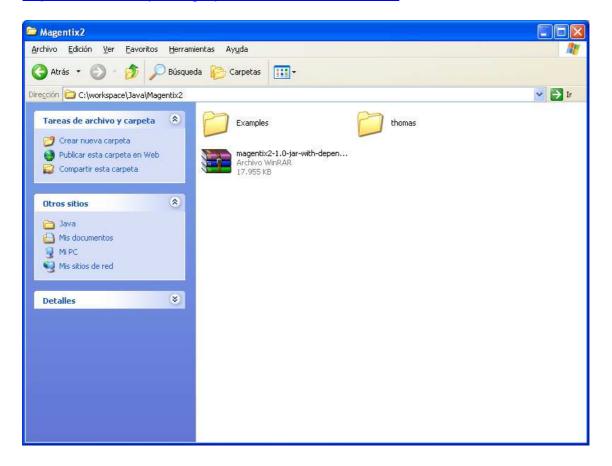


## Introduction

This document briefly describes how to install, develop and run some examples of the Magentix2 platform.

# **Download Magentix 2**

http://users.dsic.upv.es/grupos/ia/sma/tools/tools.htm



## Magentix2.zip includes:

- *Magentix2-1.0-with-dependencies.jar.* this jar includes all additional libraries required to work (develop, compile,...) with Magentix2.
- Configuration subdirectory: includes the settings.xml and loggin.xml files configuration files of Magentix2.
- Examples subdirectory: includes some examples to show Magentix2 performance.
- Licenses subdirectory.

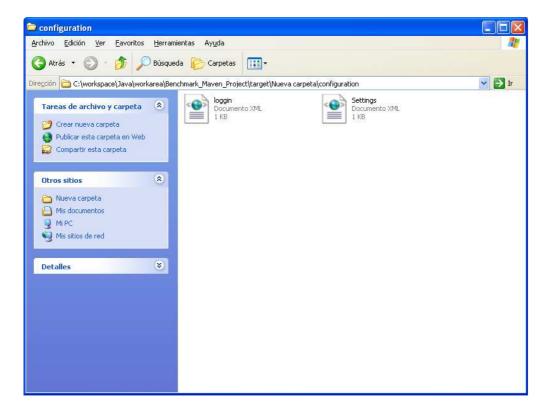


# **Pre-requisites**

## QPID (required)

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The document "INSTALL QPID IN UBUNTU 9.04 32 BITS.pdf" describes how to install Qpid/C++ broker from the source distribution <a href="http://qpid.apache.org/">http://qpid.apache.org/</a> on Linux/Unix operating system. Suppose that QPID c++ broker is running in a host called "broker.host.name" and listen messages on port 5672<sup>1</sup>. Other Broker configuration parameters as "virtualhost"<sup>2</sup>, "user" "password" and "ssl" could be configured on the settings.xml file of Magentix2:



```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE properties SYSTEM "http://java.sun.com/dtd/properties.dtd">
centry key="host"> broker.host.name
<entry key="port">port
centry key="vhost">virtualhost
centry key="user">username
centry key="password">password
centry key="ssl">false/entry>
```

<sup>1</sup> The QPID C++ broker is pre-configured by default to listen messages on port 5672 but also it is possible configure to listen on other ports (<a href="http://qpid.apache.org/rasc.html">http://qpid.apache.org/rasc.html</a>).

<sup>&</sup>lt;sup>2</sup> The term Virtual Host refers to the practice of running more than one web site on a single machine. The fact that they are running on the same physical server is not apparent to the end user.



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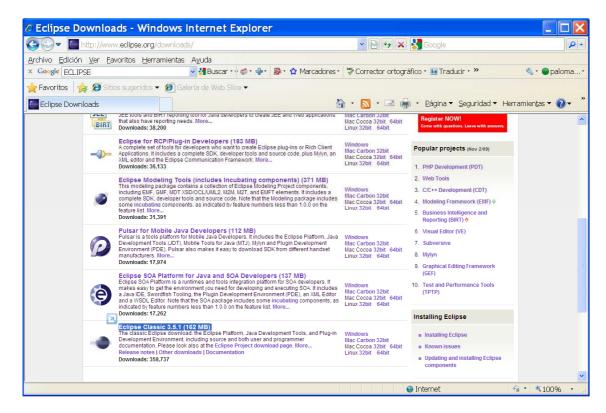
# JDK 6 (required)

http://java.sun.com/javase/downloads/index.jsp#jdk



# ECLIPSE (recommended IDE)

http://www.eclipse.org/

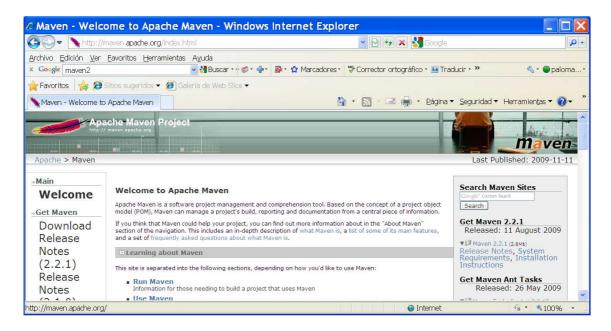




## MAVEN2 (recommended management tool)

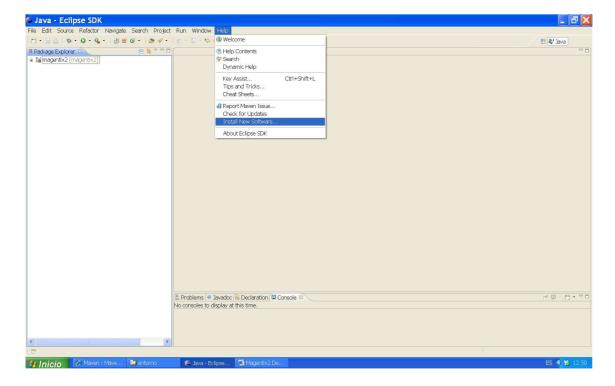
Apache Maven is a software management tool based on the concept of a project object model (POM). Maven can manage a project's build, reporting and documentation from a central piece of information.

## http://maven.apache.org/

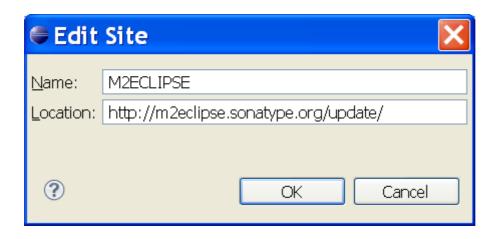


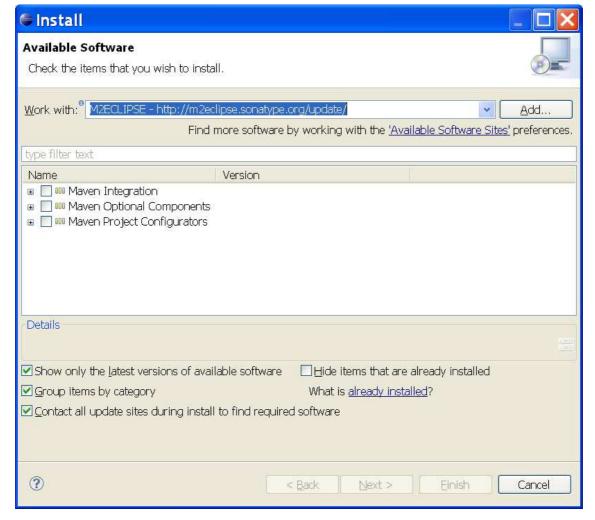
## **Eclipse plugin for Maven2**

M2 Eclipse plugin allow using Maven with Eclipse IDE.

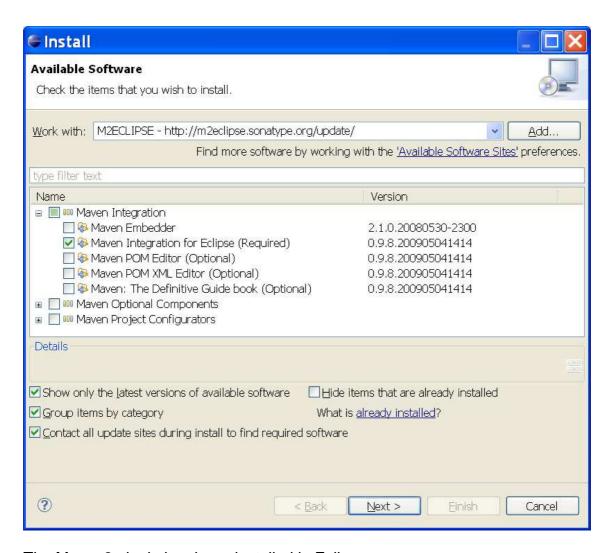




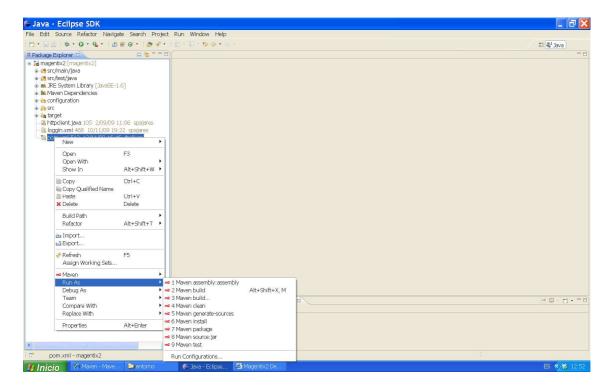








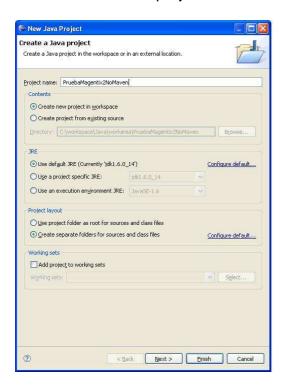
The Maven2 plugin has been installed in Eclipse:





# **Configure Eclipse IDE (without Maven2)**

Create a New Java project:



# Add Magentix2.jar dependence





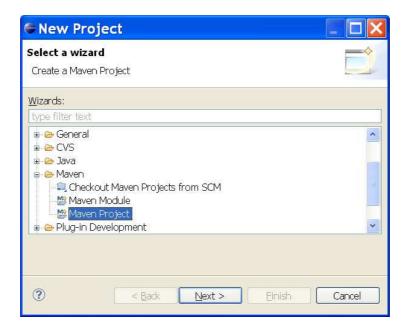
## **Configure Eclipse ID (with maven)**

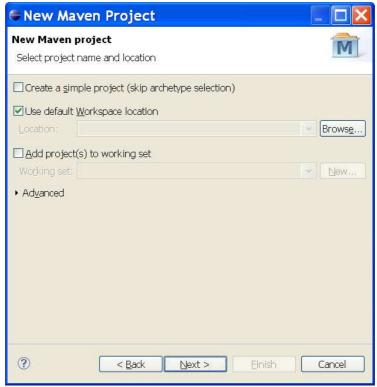
Install magentix2 in "Maven Local Repo":

mvn install:install-file -Dfile=magentix2\_1.0.jar

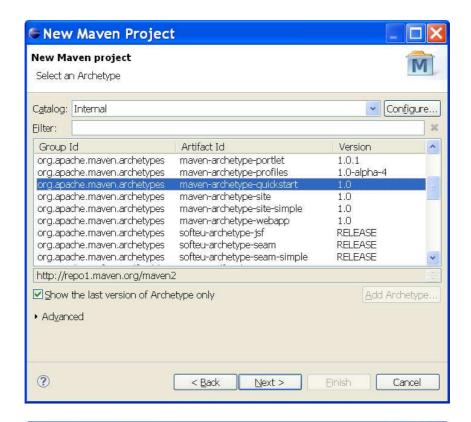
- -DgroupId=es.upv.dsic.gti-ia
- -DartifactId=magentix2
- -Dversion=1.0
- -Dpackaging=jar

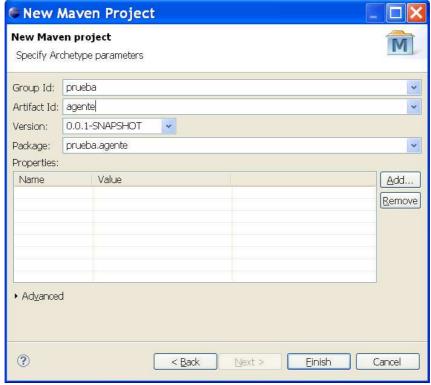
## Create a New Maven project:





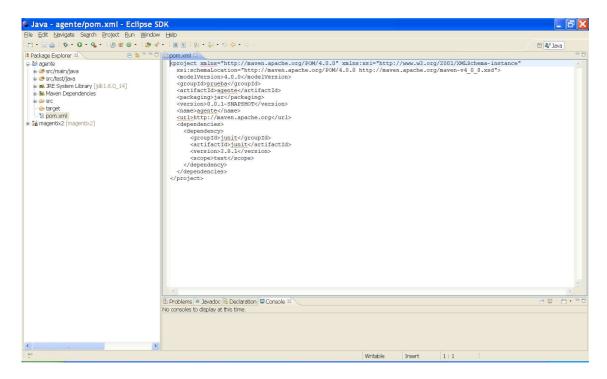








## A single maven project is created in Eclipse IDE:



## Add Magentix2 dependence in "POM.XML" file

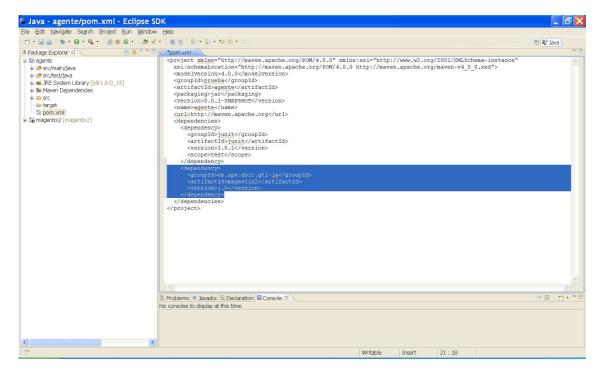
<dependency>

<groupId>es.upv.dsic.gti-ia</groupId>

<artifactId>magentix2</artifactId>

<version>1.0</version>

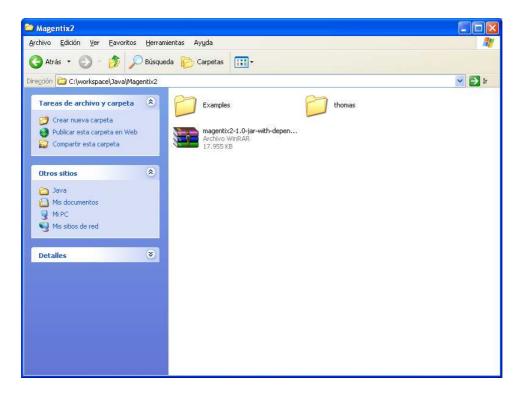
</dependency>





# **Magentix2 Examples**

Subdirectory "examples" of Magentix2 distribution includes some examples of agents developed for this platform:



## Content

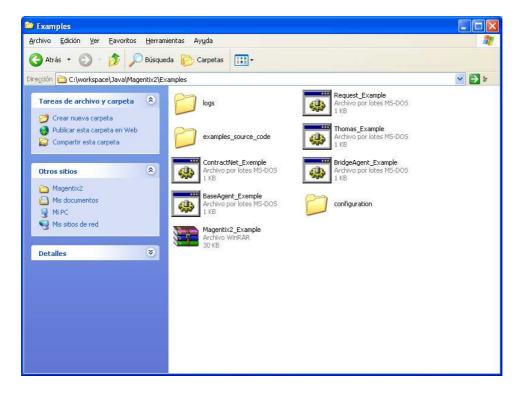
Examples included in this distribution are:

- ContractNet.
- BaseAgent:
- Request.
- BridgeAgent.
- Thomas:



## Subdirectory "examples" includes:

- "Magentix2\_Example.jar": compiled code required to run examples.
- "/examples\_source\_code" subdirectory: the source code of examples.
- "\*.bat": allow run examples directly (Microsoft windows)<sup>3</sup>.
- "/logs" subdirectory: default log4j exit.
- "/configuration": includes "settings.xml" and "logs.xml" configuration files of Magentix2 platform.

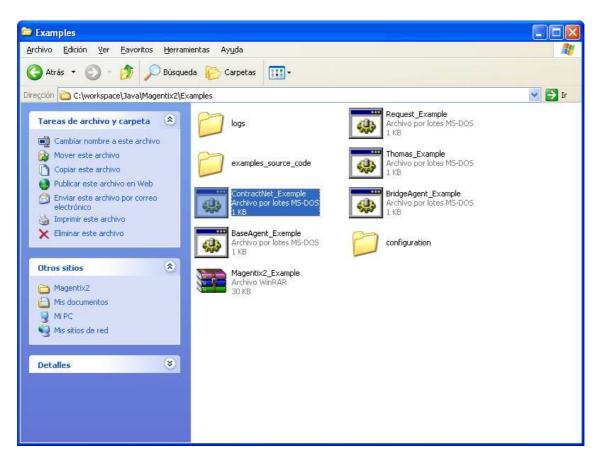


\_



<sup>&</sup>lt;sup>3</sup> For UNIX Systems the corresponding "\*.sh" files are required

## Run examples



```
C:\WINDOWS\system32\cmd.exe
C:\workspace\Java\Magentix2\Examples>set CLASSPATH=;../magentix2-1.0-jar-with-de
pendencies.jar;
:\workspace\Java\Magentix2\Examples>set CLASSPATH=;../magentix2-1.0-jar-with-de
endencies.jar;;Magentix2_Example.jar;
```



```
Autos10: Preparing Offer (26768 euros).
Autos11: We have no offers available.
Autos12: Preparing Offer (29742 euros).
Autos12: Preparing Offer (19632 euros).
Autos13: Preparing Offer (19632 euros).
Autos15: Preparing Offer (19632 euros).
Autos15: Preparing Offer (1978 euros).
Autos16: Preparing Offer (1978 euros).
Autos17: We have no offers available.
Autos17: We have no offers available.
Autos17: Preparing Offer (19275 euros).
Autos17: Preparing Offer (19275 euros).
Autos18: Preparing Offer (19275 euros).
Autos19: Preparing Offer (19414 euros).
Client: Received offer of cars Autos2. A car offers for 19318 Euros.
Autos19: Preparing Offer (19659 euros).
Client: Received offer of cars Autos3. A car offers for 28329 Euros.
Client: Received offer of cars Autos3. A car offers for 21520 Euros.
Client: Received offer of cars Autos3. A car offers for 28925 Euros.
Client: Received offer of cars Autos3. A car offers for 25156 Euros.
Client: Received offer of cars Autos4. A car offers for 26768 Euros.
Client: Received offer of cars Autos9. A car offers for 26654 Euros.
Client: Received offer of cars Autos10. A car offers for 26768 Euros.
Client: Received offer of cars Autos11. A car offers for 28711 Euros.
Client: Received offer of cars Autos12. A car offers for 29142 Euros.
Client: Received offer of cars Autos13. A car offers for 29142 Euros.
Client: Received offer of cars Autos14. A car offers for 29711 Euros.
Client: Received offer of cars Autos15. A car offers for 19632 Euros.
Client: Received offer of cars Autos18. A car offers for 19632 Euros.
Client: Received offer of cars Autos18. A car offers for 197275 Euros.
Client: Received offer of cars Autos18. A car offers for 19632 Euros.
Client: Received offer of cars Autos18. A car offers for 19632 Euros.
Client: Received offer of cars Autos18. A car offers for 19632 Euros.
Client: Received offer of cars Autos18. A car offers for 19632 Euros.
Client: Received offer of cars Autos18. A car offers for 19632 Euros.
Client: Received offer of cars Autos18. A car offers for 196
```



# **Thomas Examples**

# Pre-requisites

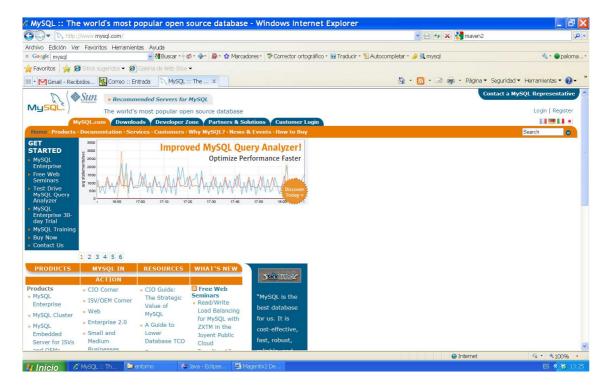
# **TOMCAT 6.0 (recommended server)**

http://tomcat.apache.org/tomcat-6.0-doc/deployer-howto.html#Installation Apache Tomcat - Welcome! - Windows Internet Explorer \_ **- X** ▼ 🔛 🤣 🗙 🚼 maven2 mcat.apache.org Archivo Edición Ver Favoritos Herramientas Ayuda x Google tomcat 6 🛂 🛂 Buscar · 🖟 🐉 · 😘 Marcadores · 🎏 Corrector ortográfico · 👪 Traducir · 📔 Autocompletar · 🤌 🗓 tomcat 🗓 6 ravoritos | 🌟 🎒 Sitios sugeridos ▼ 🎒 88 - M Gmail - Recibidos... K Correo :: Entrada Apache Tomca... x 🚹 • 🔝 · 🖃 📻 • Página • Seguridad • Herramientas • 🕡 • **The** Apache **Apache Tomcat Software Foundation** TEN YEARS OF TOMCAT Search the Site Search Site Apache Tomcat Apache Tomcat is an open source software implementation of the <u>Java Servlet</u> and <u>JavaServer Pages</u> technologies. The Java Servlet and JavaServer Pages specifications are developed under the <u>Java Community Process</u>. Home
 Taglibs Apache Tomcat is developed in an open and participatory environment and released under the <u>Apache Software License</u>. Apache Tomcat is intended to be a collaboration of the best-of-breed developers from around the world. We invite you to participate in this Download open development project. To learn more about getting involved, click here. · Which version? Tomcat 6.x
Tomcat 5.5
Tomcat Connectors
Tomcat Native
Archives Apache Tomcat powers numerous large-scale, mission-critical web applications across a diverse range of industries and organizations. Some of these users and their stories are listed on the <a href="PoweredBy">PoweredBy</a> wiki page. Documentation ApacheCon US 2009, 2-6 November 2009 in Oakland, CA, will have a dedicated track about Tomcat topics. We will celebrate our 10th anniversary as an Apache project, explain the future developements: Tomcat7, asynchrounous servlets, show how to get the best of Tomcat and how to front-end Tomcat clusters. We also have a meetup on Monday evening where you can get hands-on advice and really join the ranks of the Tomcat initiated! Tomcat 6.0 Tomcat Native Join us in Oakland! Migration Guide

# MySQL (recommended DDBB)

http://www.mysql.com/

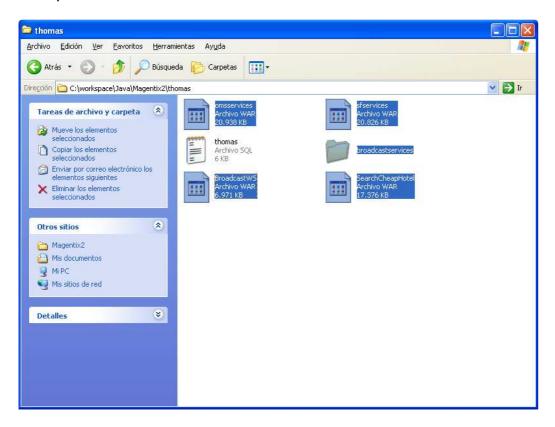
1 Inicio & Apache Tomo... 😉 ento

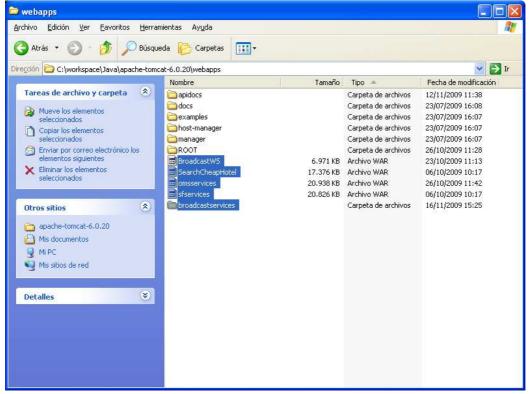




# **Deploy Thomas in TOMCAT**

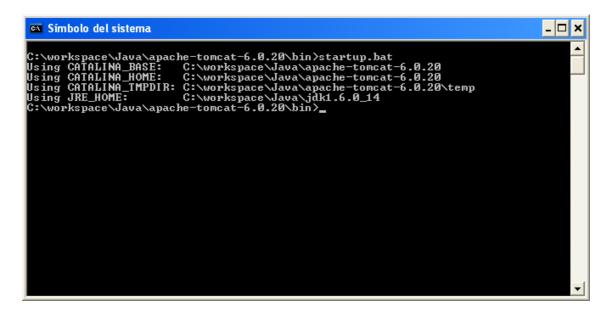
Copy packaged libraries of Thomas (*omsservices.war*, *sfservices.war*) and also the Thomas examples (*SearchCheapHotel.war*, *BroadcastWS.war* and the broadcastservices directory) from Magentix2 distribution to the subdirectory webapss of Tomcat:







Start Tomcat by running the *startup.bat* file on the */bin* subdirectory of Tomcat. You must have the JDK 1.6 installed before you can start Tomcat.



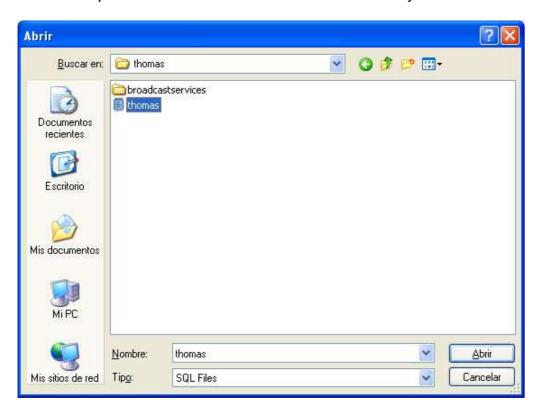
```
Tomcat

16-nov-2009 16:35:58 org.apache.catalina.core.AprLifecycleListener init
INFO: La biblioteca nativa de Apache Tomcat basada en ARP que permite un rendimi
ento %ptimo en entornos de desarrollo no ha sido hallada en java.library.path: C
:\workspace\Java\jdk1.6.0_14\bin;:C:\WINDOWS\Sun\Java\bin;C:\WINDOWS\system32;C:\WINDOWS\Sun\Java\bin;C:\WINDOWS\system32;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:\WINDOWS\System32\bin;C:
```

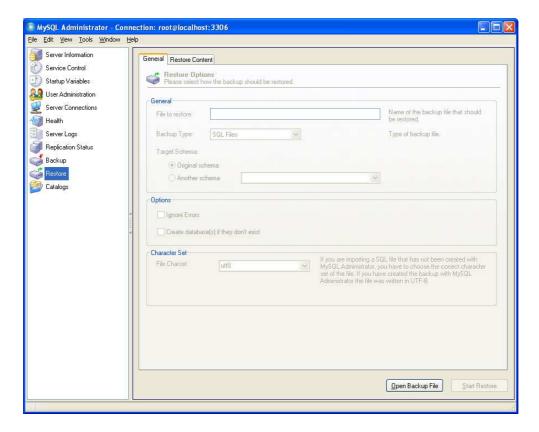


# Install Thomas DDBB in MySQL

"Thomas.sql" file allow restore Thomas Data Base in MySQL:

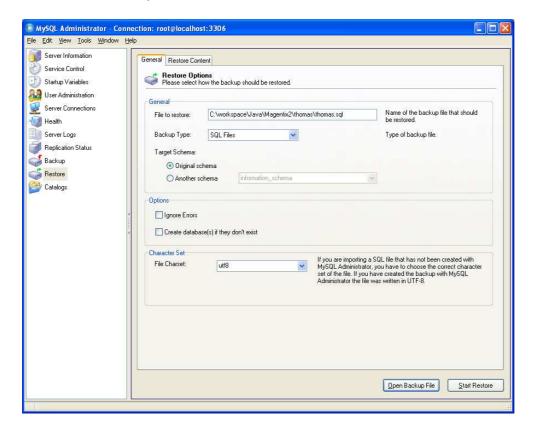


Open the MySQL Administrator and select restore option:

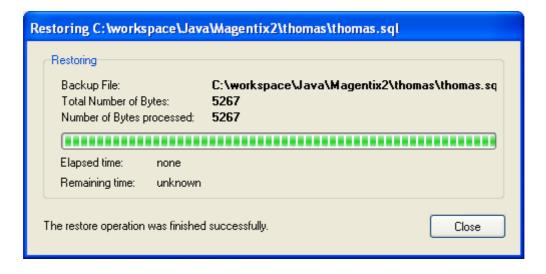




## Select *Thomas.sql* file:

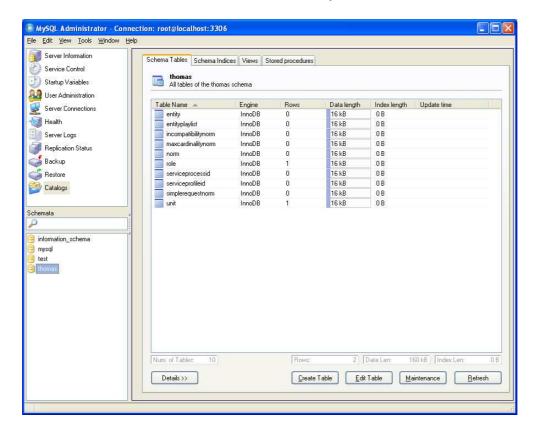


## Init restore process:

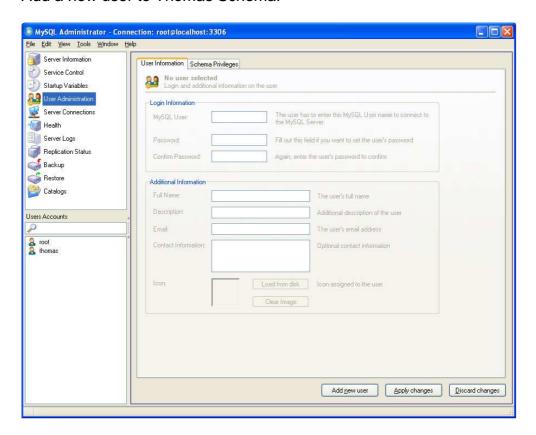




## Now Thomas DDBB could be installed in MySQL

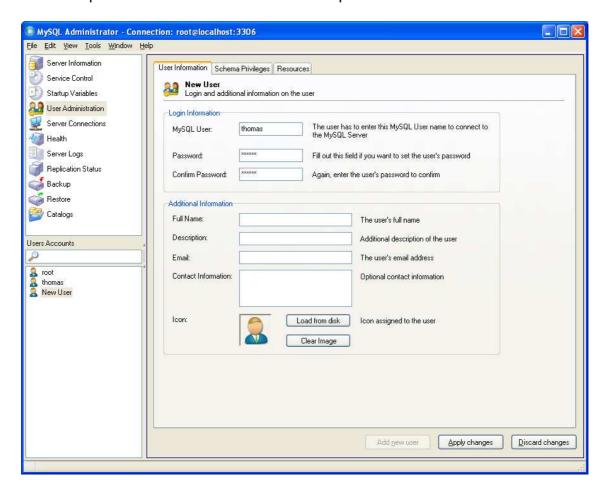


#### Add a new user to Thomas Schema:

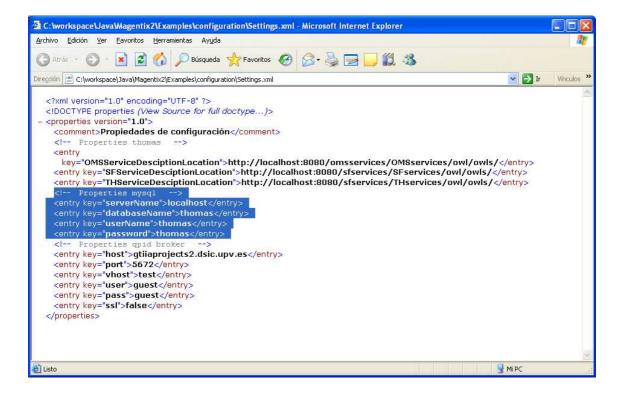




For example we add the user="thomas" with password= "thomas"

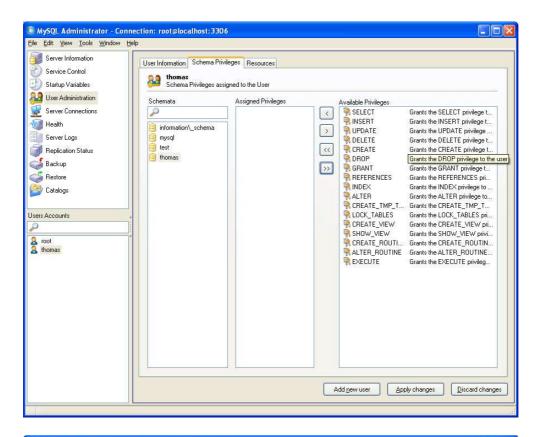


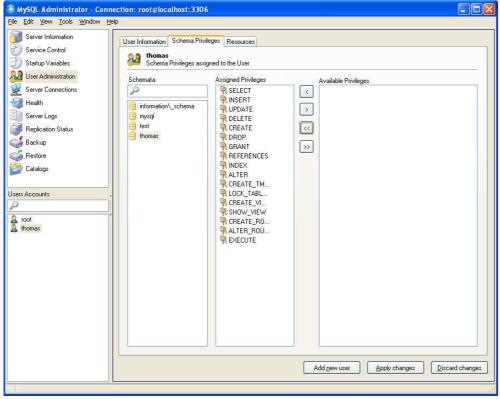
Also these values must be configured on the settings.xml file of Magentix2:





Finally available privileges for all tables of Thomas must be assigned to this user:







## Run Thomas Example

