Department of

Computer Science and Engineering

MeteoCal

Project development for the 2014 Software Engineering 2 Course

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Installation

Guide

System Description

MeteoCal is a web application, that provides his user with a lot of services related to personal event management. Users will need only a browser and no plugin installation is required.
In our design we dedicated particular attention to the friendliness of usage of our service. Our first purpose is to provide the user with the easiest and lightest interaction possible considered the complexity of the functionalities we decided to offer.

Table of Contents

1. Required software

To install our application the user will need the following software on his machine:

- JDK 1.8.31+ (http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html)
- Glassfish 4.1 (*https://glassfish.java.net/download.html*)
- MySql Community Server (*http://dev.mysql.com/downloads/mysql/*)
- MySql Java connector (http://dev.mysql.com/downloads/connector/j/)

Optional, but suggested:

- Netbeans 8 (*https://netbeans.org/downloads/*)

2 Installation tutorial

Once the components have been installed execute mysql from terminal. (On Windows system we suggest to add %MySql Install Folder%\MySQL Server 5.6\bin to the PATH system variable)

If the PATH variable has been added you can execute MySql from terminal by typing:

mysql -u root -p

Enter your root password and write the following commands:

create database meteocaldb;

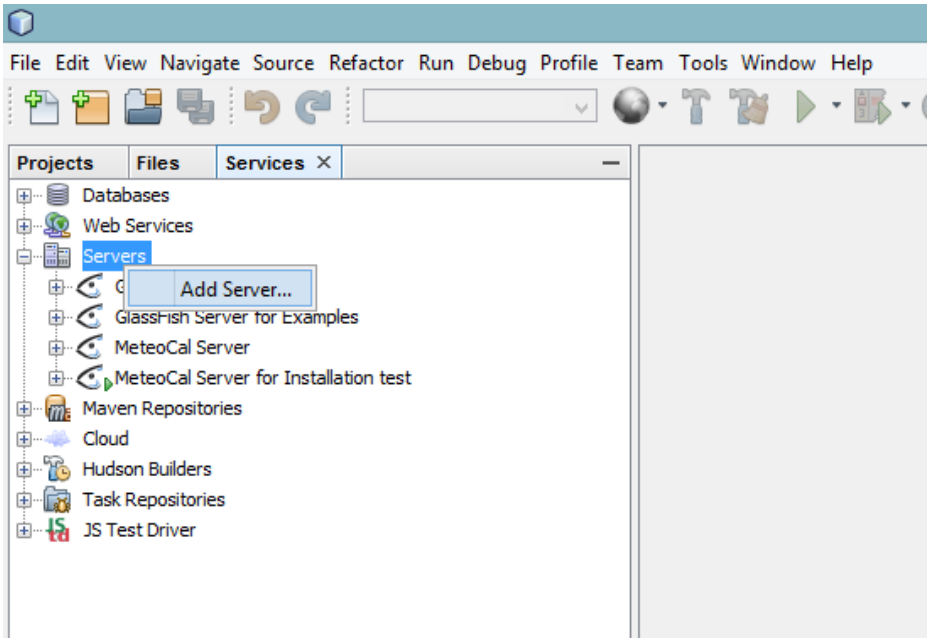
create user 'meteocal_user'@'localhost' identified by 'password'

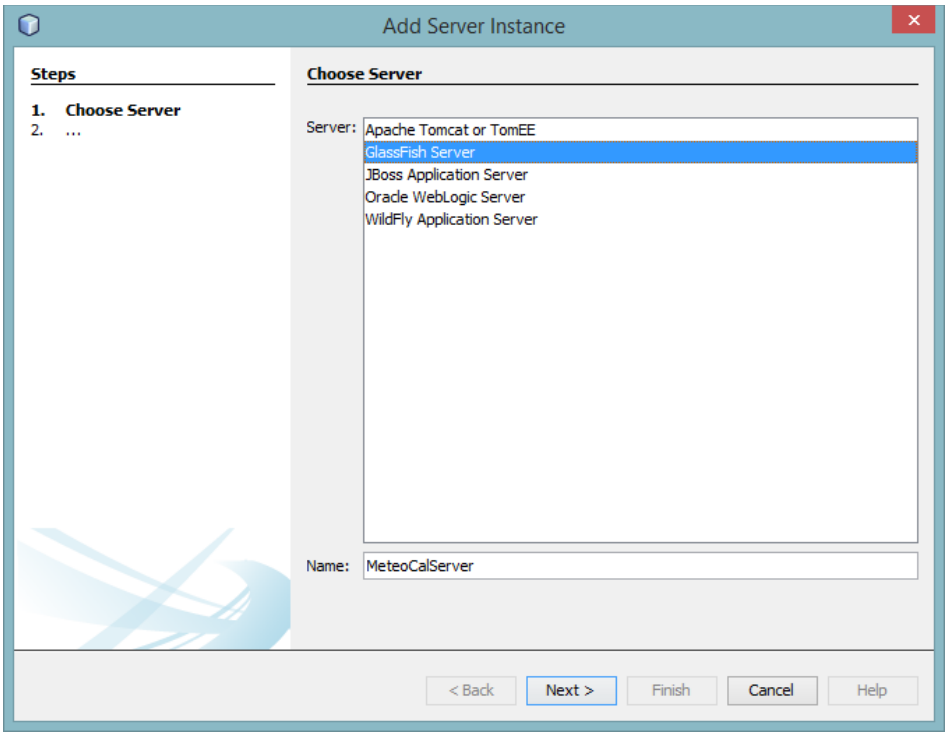
grant all on meteocaldb. to 'meteocal_user'@'localhost'*

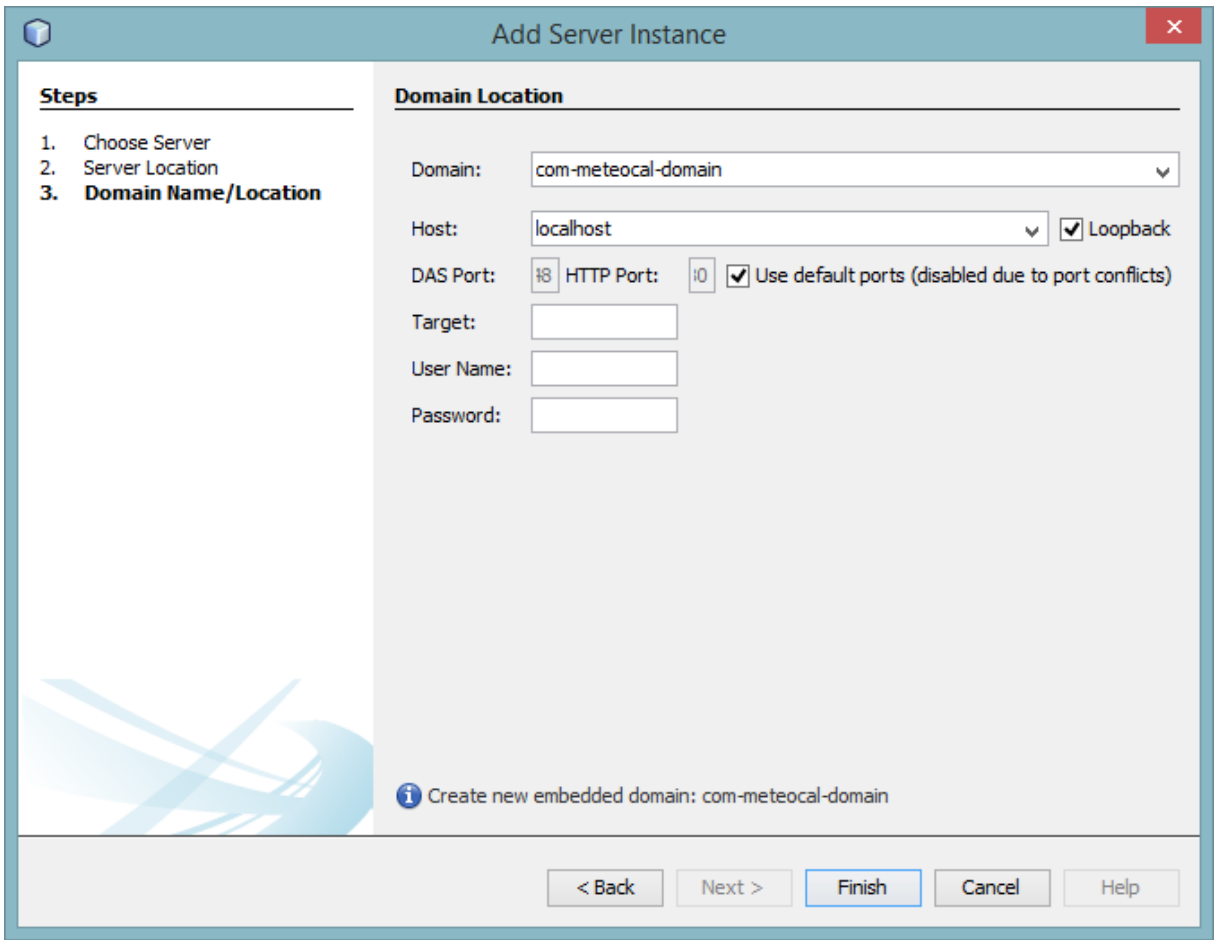
Then place mysql-connector-java-5.1.34-bin.jar (extracted from the MySql Java connector) in the folder %Glassfish installation folder%\glassfish\modules

Then start the Glassfish server. This can be done by command line or in GUI environments. One of these is Netbeans, that we will use in this tutorial.

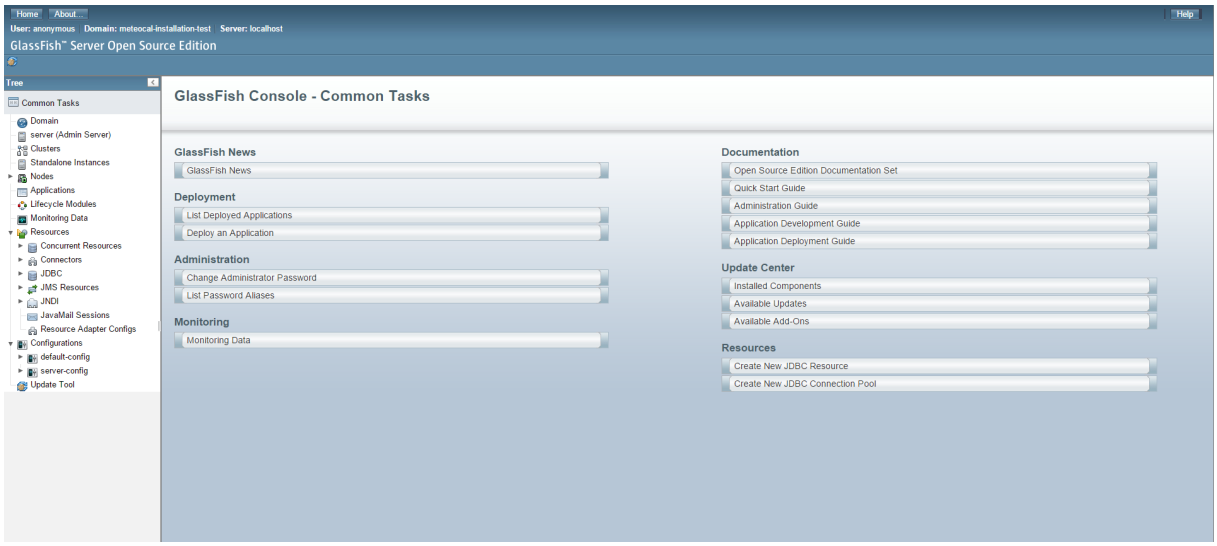
Go to the Services tab, under the voice Servers and follow the visual instruction from these screens:



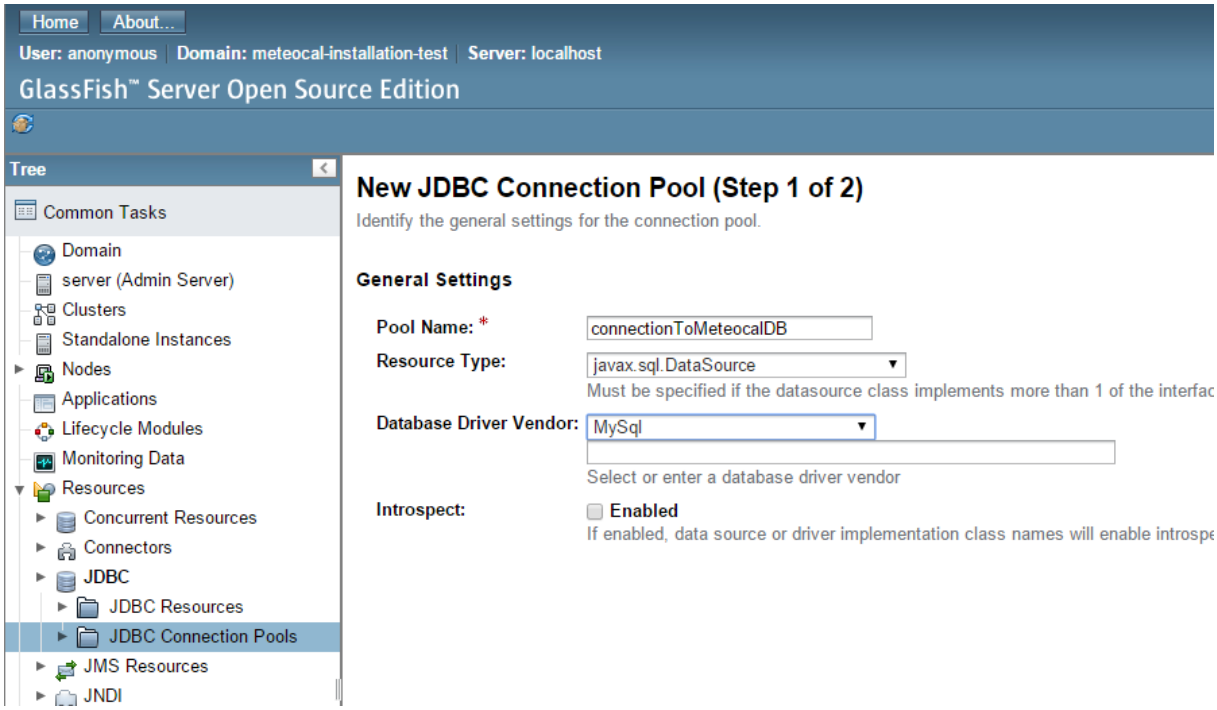




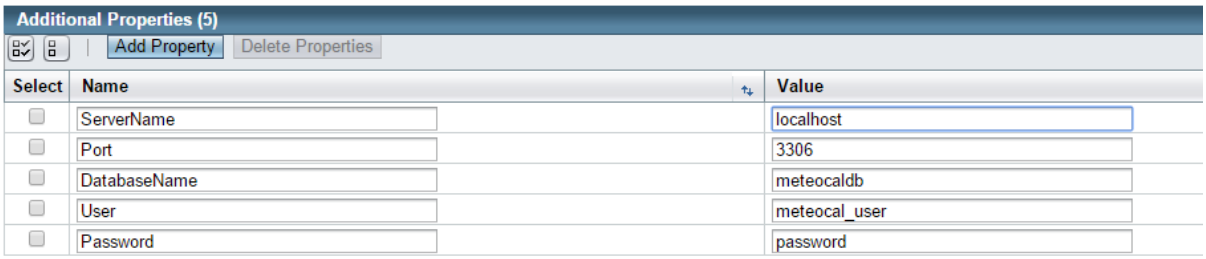
Confirm, wait for the domain creation. When this operation is finished right click on the new server and choose “View Domain Admin Console”. In the browser, you should see a page like this:



Then Resources/JDBC Connection Pools, choose to create a new one and enter the following data:

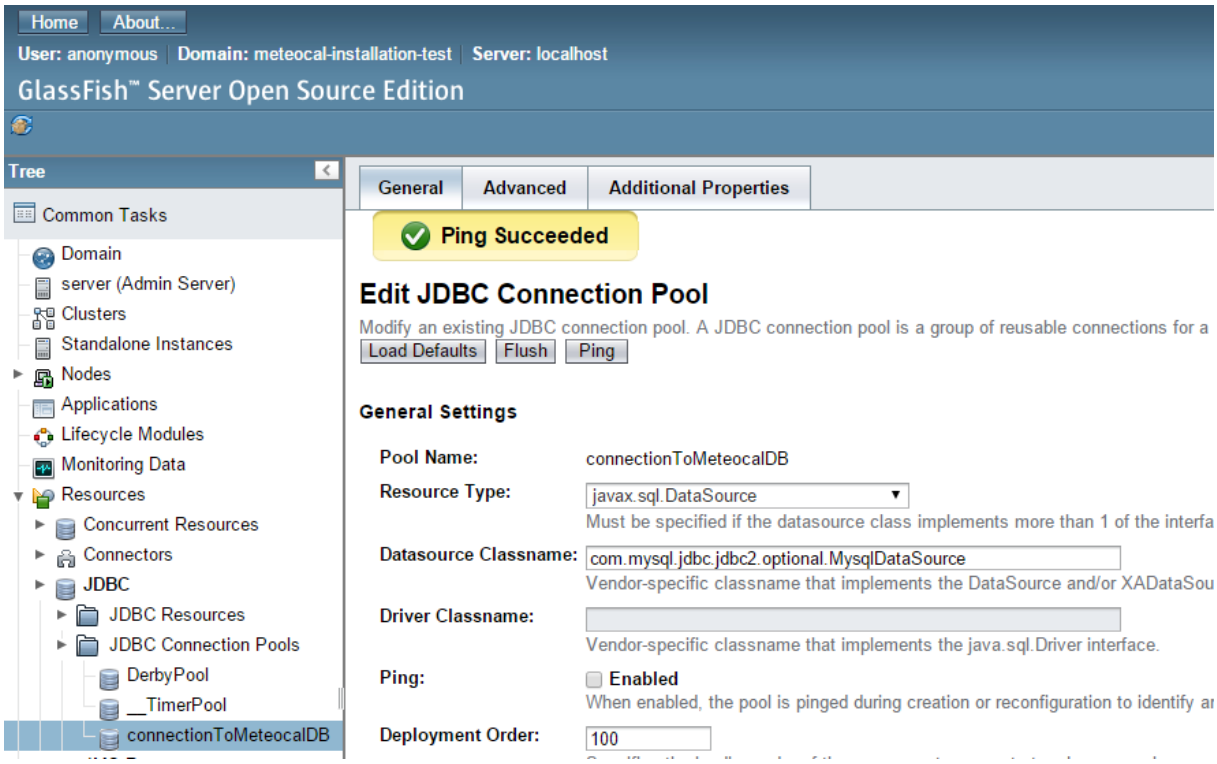


Next

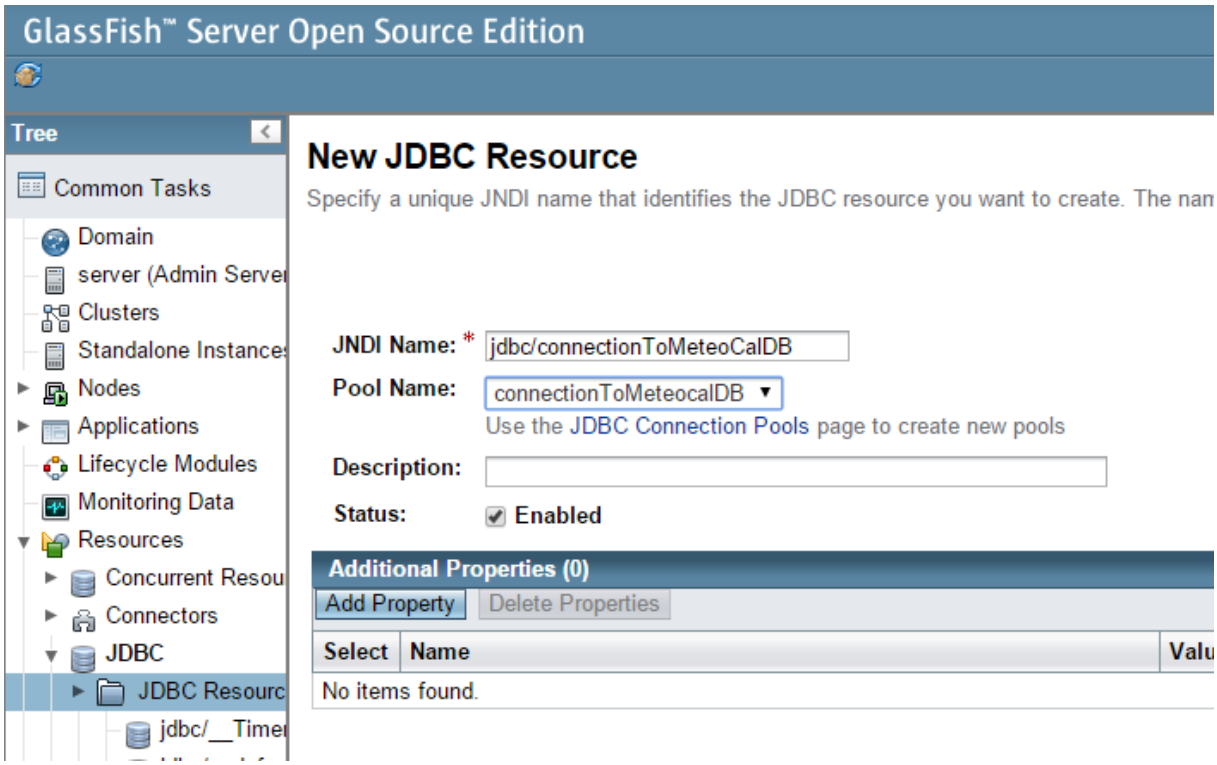


Finish.

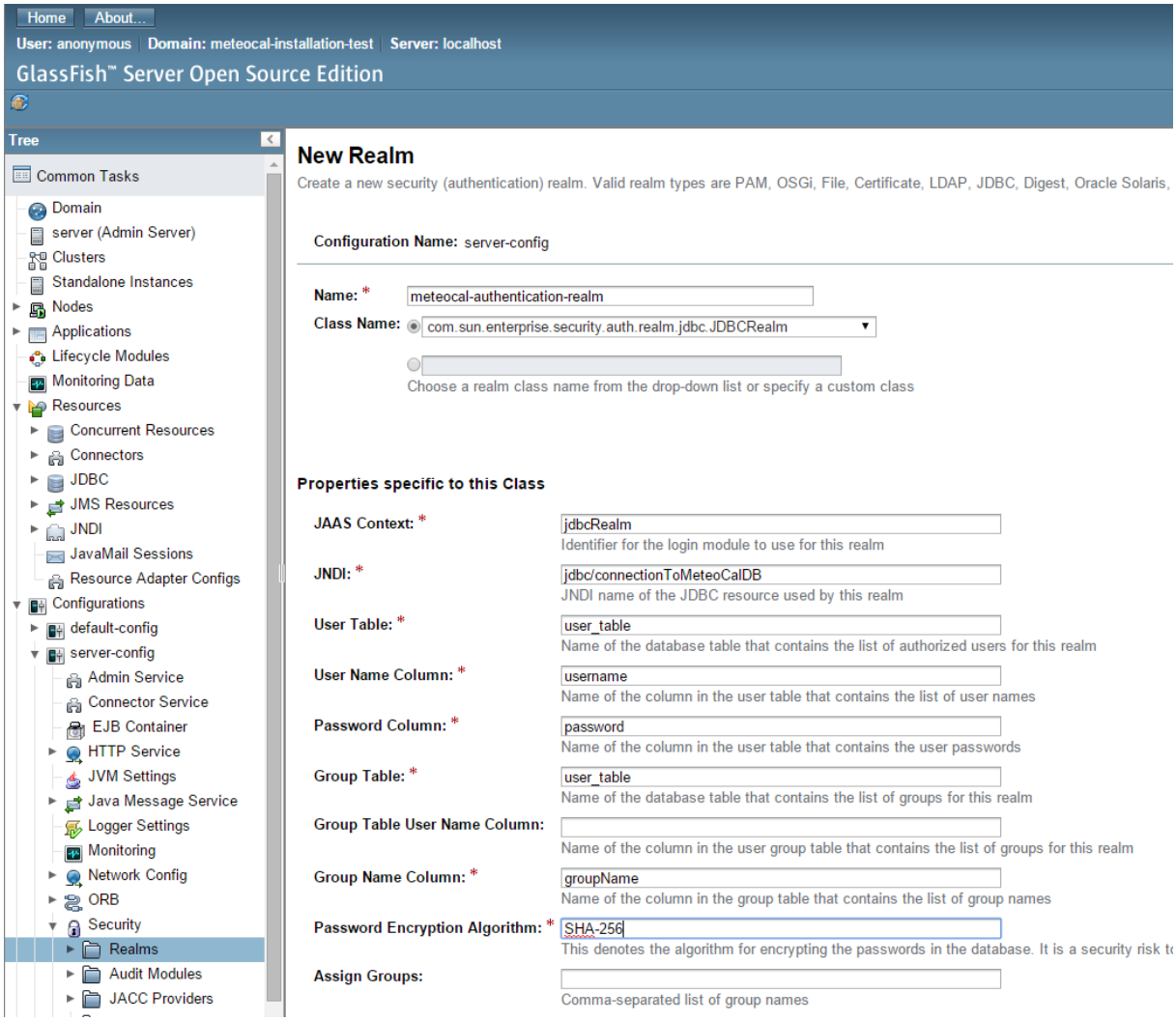
Click on the new pool from the list and press Ping to verify that the connection works.



Then create a new JDBC resource and enter the following data:

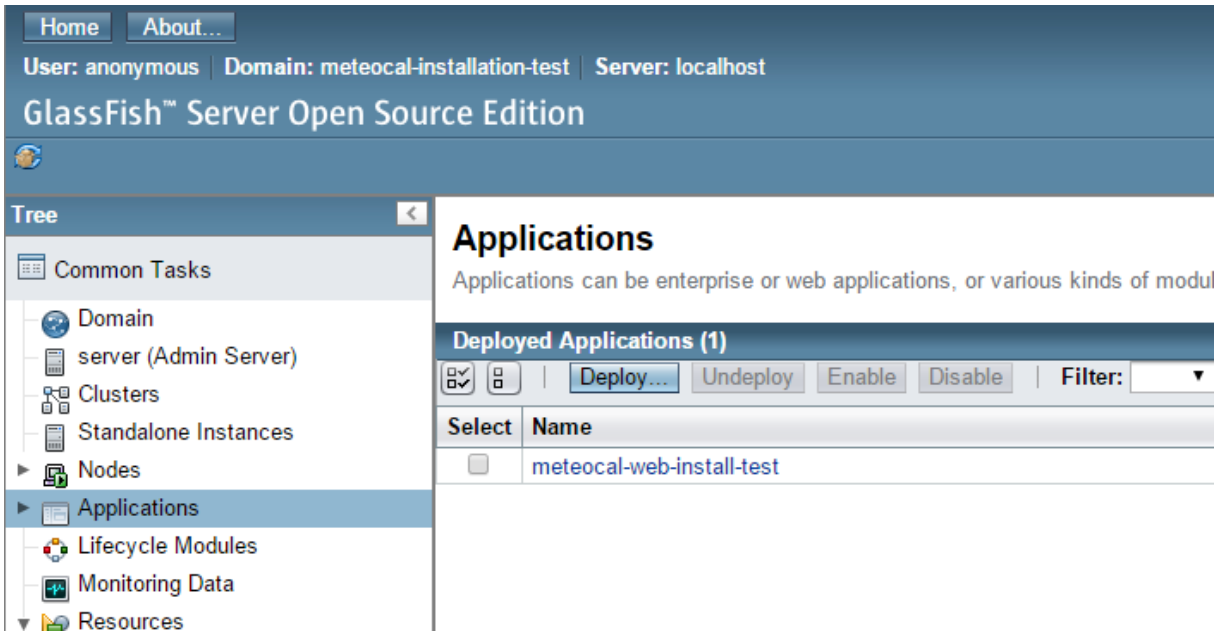


Then, under Configurations > server-config > Security > Realms, create a new Realm with the following data:

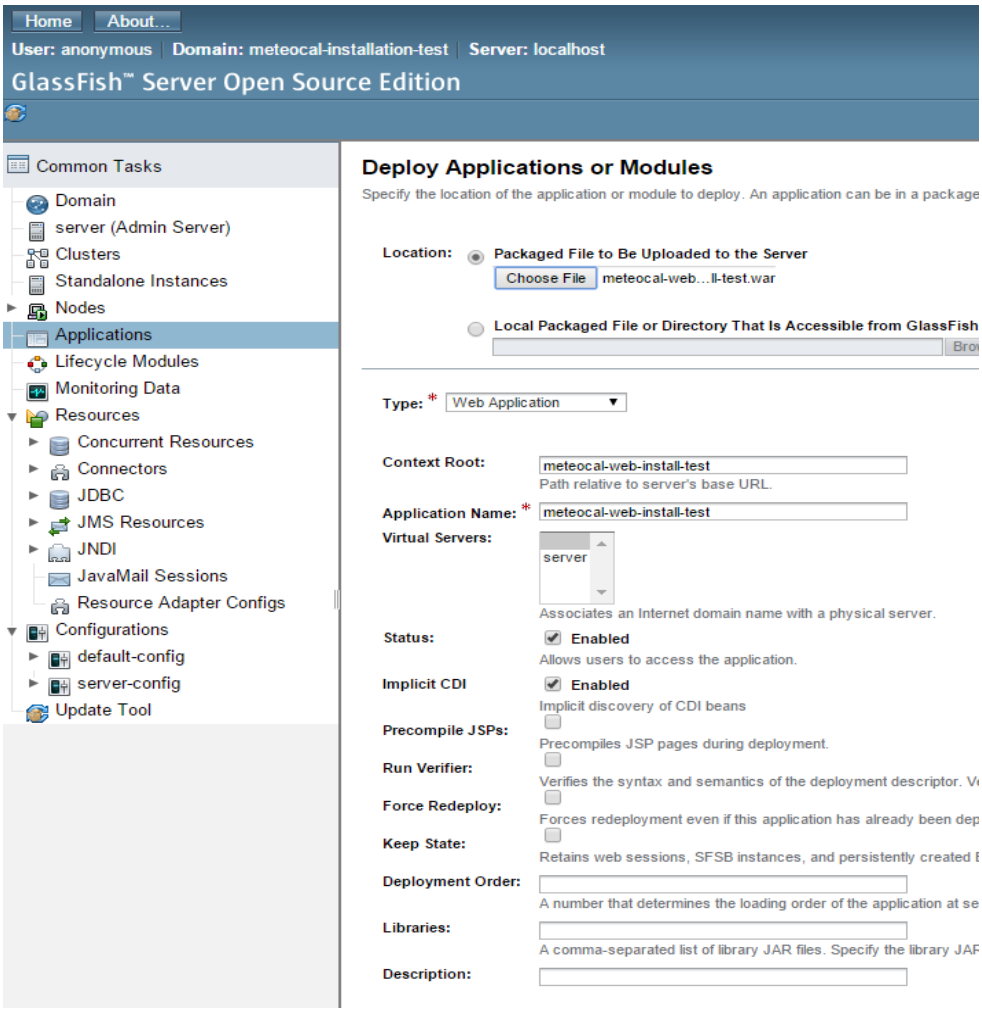


You should now be ready to deploy the provided war file and test our platform.

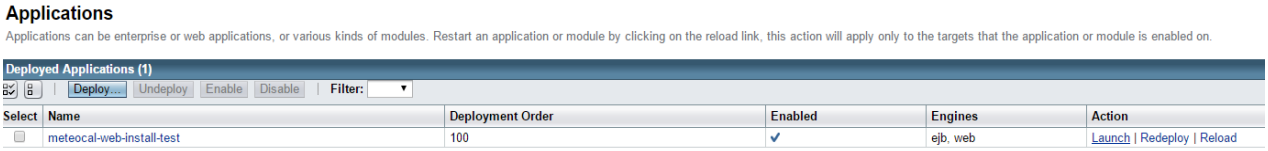
To deploy the application go under Application and choose “Deploy”:



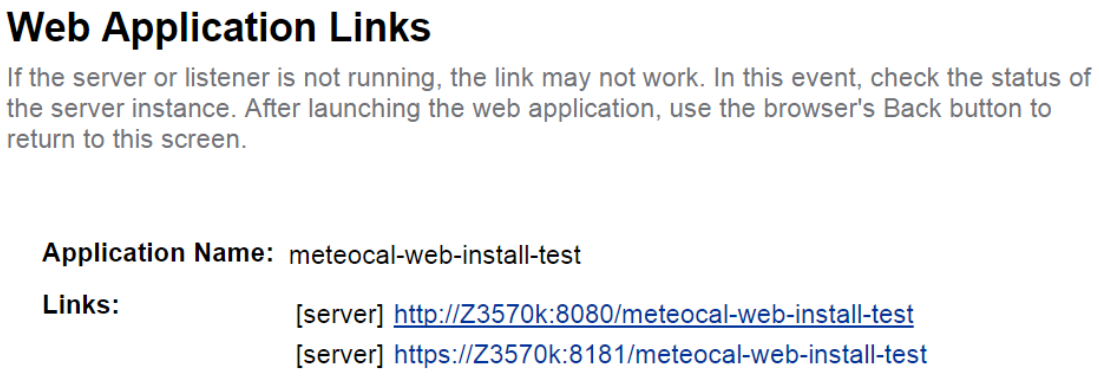
Then upload the provided meteocal.war file and set the following data:



Then, on the applications page you should be able to Launch the application and use it successfully.



This will bring you to a new page where there are two links, press the first one to enter.



Then you should see the MeteoCal Index page and be able to access every functionality we offer.

3. Using The Source Code

To open the source code provided in the meteocal.zip file, extract the zip file and, in Netbeans, choose “Open Project”, navigate to the extraction folder and select the project folder. Make sure to have “Open Required Projects” selected.