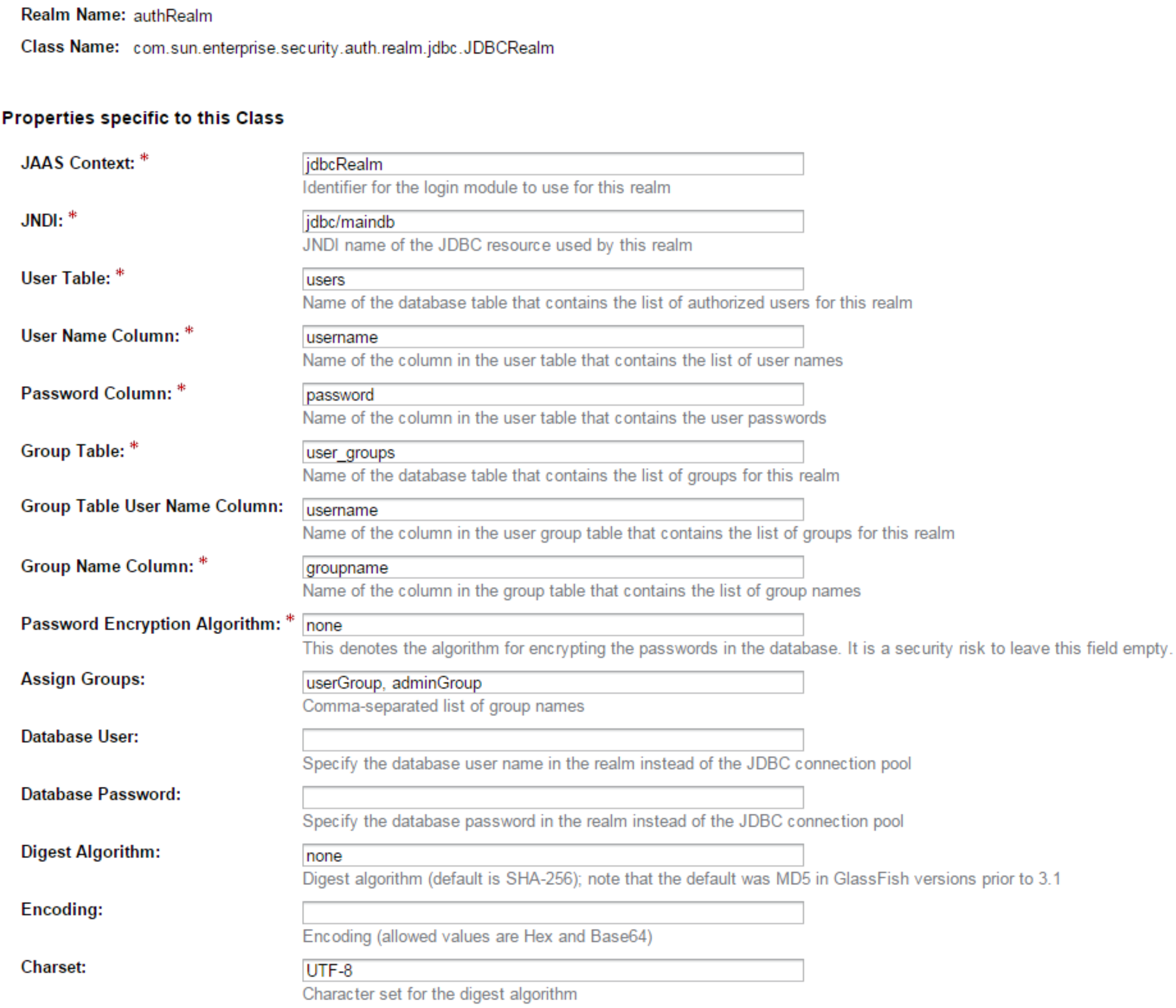
In order to run the project you need to create a new JDBC database named *maindb* with *app* as username and password.

You will also need to edit some things in the GlassFish Domain Admin Console.

In NetBeans, go to Services tab, then:
Servers>Right click GlassFish Server>"View Domain Admin Console"

In the Console, go to:
Configurations>server-config>Security>Click Realms

Here you need to create a new realm named *authRealm* (note camelcasing) according to the picture:



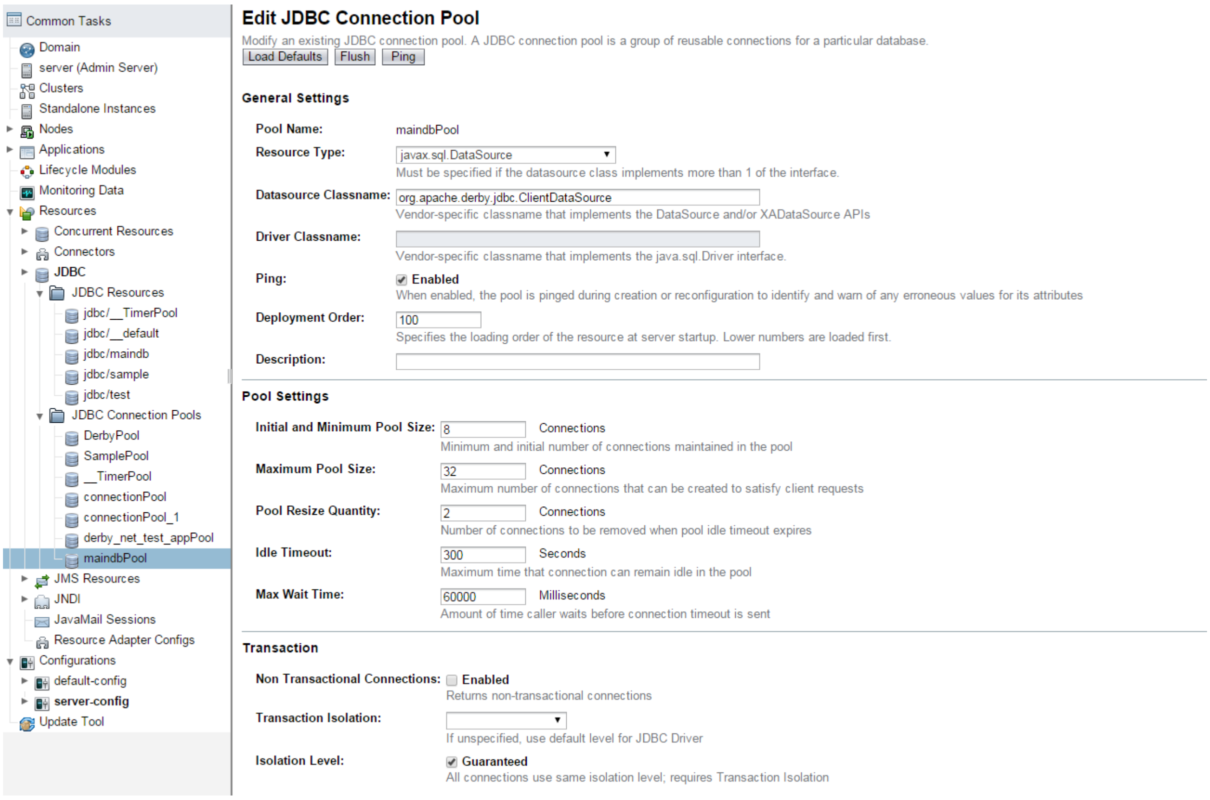
Realm Name: authRealm

Class Name: com.sun.enterprise.security.auth.realm.jdbc.JDBCRealm

Properties specific to this Class

JAAS Context: *	jdbcRealm	Identifier for the login module to use for this realm
JNDI: *	jdbc/maindb	JNDI name of the JDBC resource used by this realm
User Table: *	users	Name of the database table that contains the list of authorized users for this realm
User Name Column: *	username	Name of the column in the user table that contains the list of user names
Password Column: *	password	Name of the column in the user table that contains the user passwords
Group Table: *	user_groups	Name of the database table that contains the list of groups for this realm
Group Table User Name Column:	username	Name of the column in the user group table that contains the list of groups for this realm
Group Name Column: *	groupname	Name of the column in the group table that contains the list of group names
Password Encryption Algorithm: *	none	This denotes the algorithm for encrypting the passwords in the database. It is a security risk to leave this field empty.
Assign Groups:	userGroup, adminGroup	Comma-separated list of group names
Database User:		Specify the database user name in the realm instead of the JDBC connection pool
Database Password:		Specify the database password in the realm instead of the JDBC connection pool
Digest Algorithm:	none	Digest algorithm (default is SHA-256); note that the default was MD5 in GlassFish versions prior to 3.1
Encoding:		Encoding (allowed values are Hex and Base64)
Charset:	UTF-8	Character set for the digest algorithm

And just to be sure, JDBC ConnectionPool and JDBCResource needs to be configured like in the pictures below:



Edit JDBC Connection Pool

Modify an existing JDBC connection pool. A JDBC connection pool is a group of reusable connections for a particular database.

General Settings

Pool Name: maindbPool

Resource Type: javax.sql.DataSource ▾
Must be specified if the datasource class implements more than 1 of the interface.

Datasource Classname: org.apache.derby.jdbc.ClientDataSource
Vendor-specific classname that implements the DataSource and/or XADataSource APIs

Driver Classname:
Vendor-specific classname that implements the java.sql.Driver interface.

Ping: ☑ Enabled
When enabled, the pool is pinged during creation or reconfiguration to identify and warn of any erroneous values for its attributes

Deployment Order: 100
Specifies the loading order of the resource at server startup. Lower numbers are loaded first.

Description:

Pool Settings

Initial and Minimum Pool Size: 8 Connections
Minimum and initial number of connections maintained in the pool

Maximum Pool Size: 32 Connections
Maximum number of connections that can be created to satisfy client requests

Pool Resize Quantity: 2 Connections
Number of connections to be removed when pool idle timeout expires

Idle Timeout: 300 Seconds
Maximum time that connection can remain idle in the pool

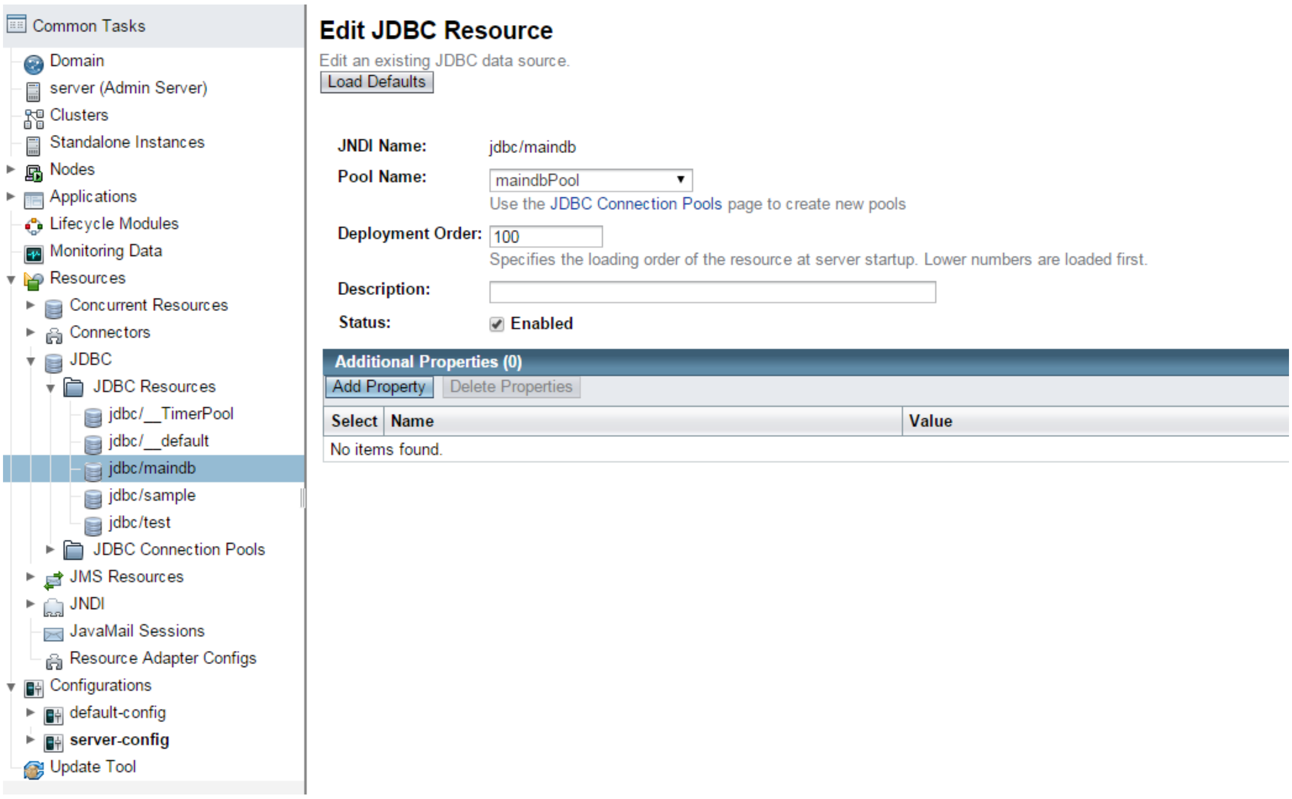
Max Wait Time: 60000 Milliseconds
Amount of time caller waits before connection timeout is sent

Transaction

Non Transactional Connections: □ Enabled
Returns non-transactional connections

Transaction Isolation: ▾
If unspecified, use default level for JDBC Driver

Isolation Level: ☑ Guaranteed
All connections use same isolation level; requires Transaction Isolation



Edit JDBC Resource

Edit an existing JDBC data source.

JNDI Name: jdbc/maindb

Pool Name: maindbPool ▾
Use the JDBC Connection Pools page to create new pools

Deployment Order: 100
Specifies the loading order of the resource at server startup. Lower numbers are loaded first.

Description:

Status: ☑ Enabled

Additional Properties (0)

Select	Name	Value
No items found.		