

# Delegate security to servlet container

## About this document

This is more specific to Tomcat than Hudson but as i did my specific configuration for Hudson i think it can help someone here 🍷

## Existing Realms

There are 5 existing realms for Tomcat 6:

- JDBCRealm - Accesses authentication information stored in a relational database, accessed via a JDBC driver.
- DataSourceRealm - Accesses authentication information stored in a relational database, accessed via a named JNDI JDBC DataSource.
- JNDIRealm - Accesses authentication information stored in an LDAP based directory server, accessed via a JNDI provider.
- MemoryRealm - Accesses authentication information stored in an in-memory object collection, which is initialized from an XML document (conf/tomcat-users.xml).
- JAASRealm - Accesses authentication information through the Java Authentication & Authorization Service (JAAS) framework.

See Tomcat documentation [here](#) for more information.

## Specific need

For my company i need to have an LDAP authentication and an hudson authorization management.  
So i just had to mix JNDIRealm & JDBCRealm.

The result is LdapJDBCRealm ([LdapJdbcRealm.java](#), [LdapJdbcRealm.class](#)). This is only a deal with overriding some methods.  
Parameters are also mix of Realms, see server.xml template in installation steps.

## Installation steps (Tomcat 6.x)

1. Copy the Mysql JDBC driver to your `%CATALINA_HOME%/lib` (get it [here](#))
2. Copy this .class file to `%CATALINA_HOME%/lib/org/apache/catalina/realm` folder
3. Update server.xml configuration file (`%CATALINA_HOME%/conf`). Look at the following template:  
this is the template for LdapJDBCRealm configuration in server.xml file:

```
<Realm className="org.apache.catalina.realm.LdapJdbcRealm" debug="99"
  connectionName="_your bind account information_"
  connectionPassword="_your bind account password if anonymous not supported_"
  connectionURL="_ldap url server (like http://ldapserv:389)_"
  userPattern="_pattern to search your user_"
  roleBase="dummyValue"
  roleSubtree="true"
  roleName="groupMembership"
  roleSearch="cn=DummyValue"
  driverName="com.mysql.jdbc.Driver"
  dbConnectionURL="jdbc:mysql://localhost:3306/hudson_users?user=userForDatabase&
password=userpassword"
  dbConnectionName="userForDatabase"
  dbConnectionPassword="userpassword"
  userTable="users"
  userNameCol="user_name"
  userRoleTable="user_roles"
  roleNameCol="role_name"
/>
```

4. Create your users database. See [here](#) for scripts to create it.

Once you do that, Hudson should authenticate users against LDAP server and get their authorization using your local database.