

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://ldapserver:
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.