Step 1 – Open Jboss' security configuration file

Add to the file the following, to configure security police by database:
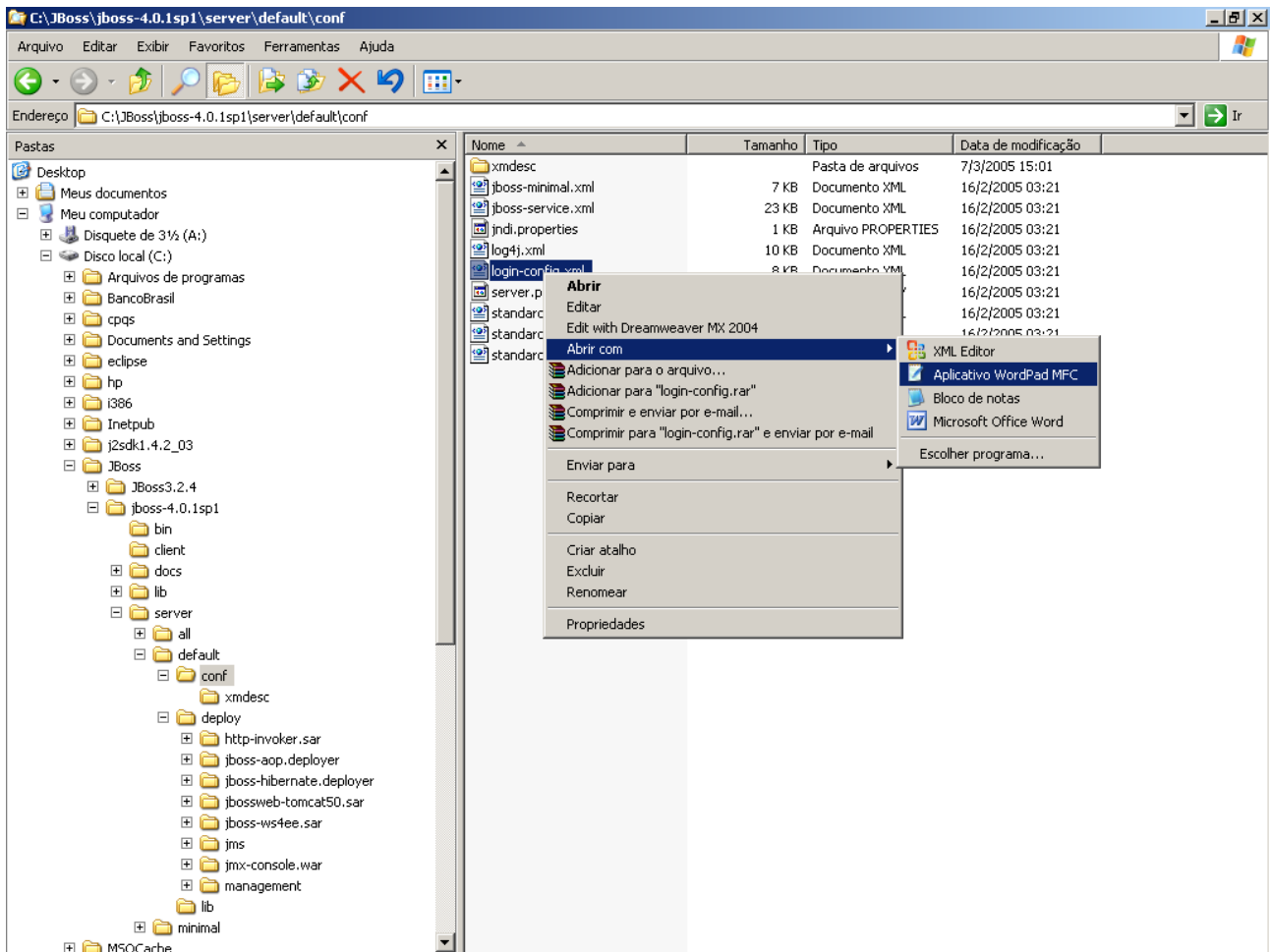
```
<application-policy name="pethotelPolicy">
      <authentication>
      <login-module code="org.jboss.security.ClientLoginModule"
flag="required">
      </login-module>
      <login-module
code="org.jboss.security.auth.spi.DatabaseServerLoginModule"
            flag="required">
            <module-option name="managedConnectionFactoryName">
                  jboss.jca:service=LocalTxCM,name=pethotel
            </module-option>
            <module-option name="dsJndiName">
                  java:/jdbc/pethotel
            </module-option>
            <module-option name="principalsQuery">
                  Select Password from Principal where PrincipalID =?
            </module-option>
            <module-option name="rolesQuery">
                  Select Role as Roles, RoleGroup as RoleGroups from Role
where PrincipalID =?
            </module-option>
      </login-module>
      </authentication>
</application-policy>
```

include this between <policy></policy> tags.

Attention: Only table rows included with roleGourp='Roles' will be taken as Roles.
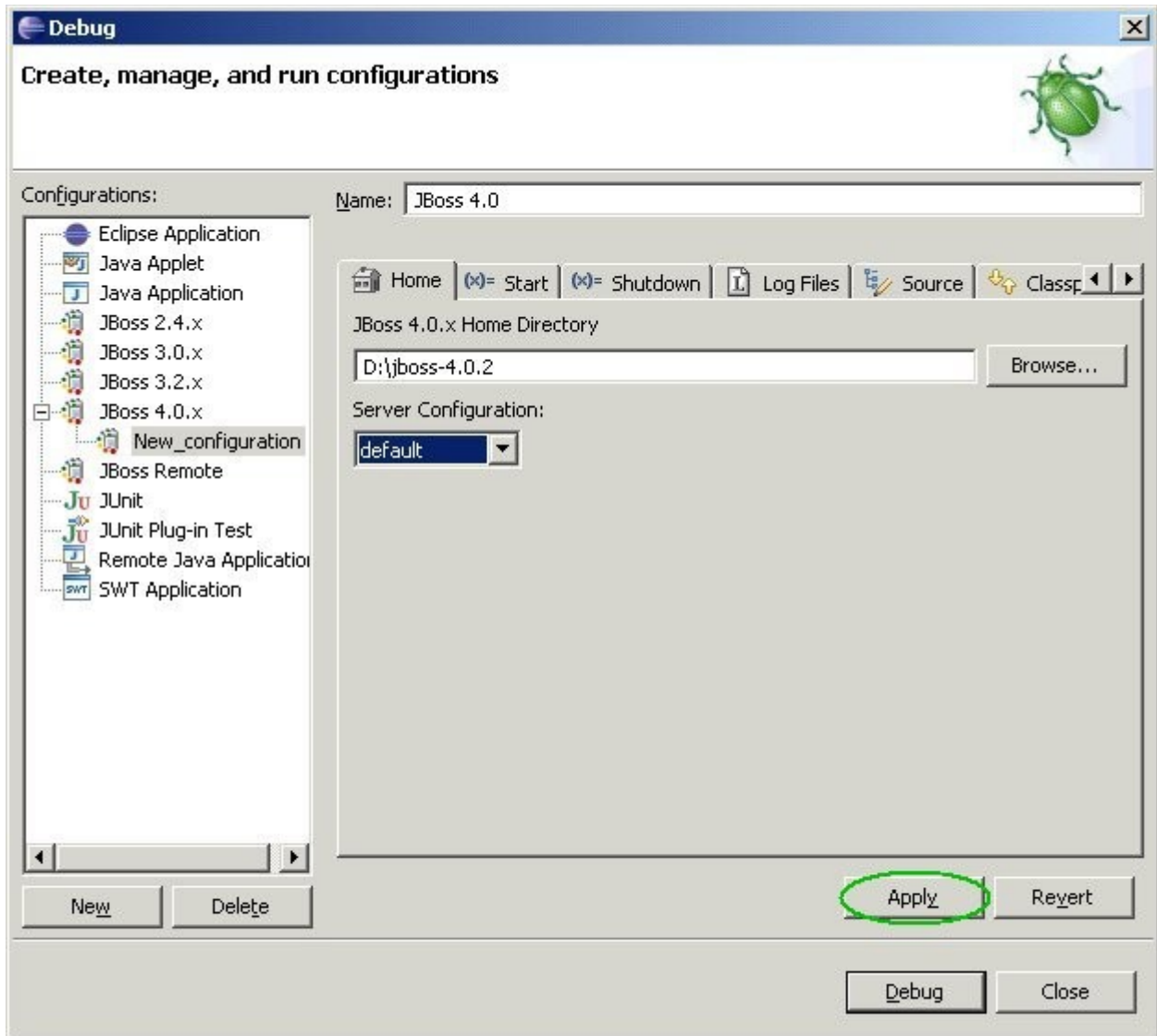
Configuring Jboss-IDE

Go to debug-debug menu...
Select Jboss 4.0.x and press New
Enter a name in the new field (jboss 4.01)
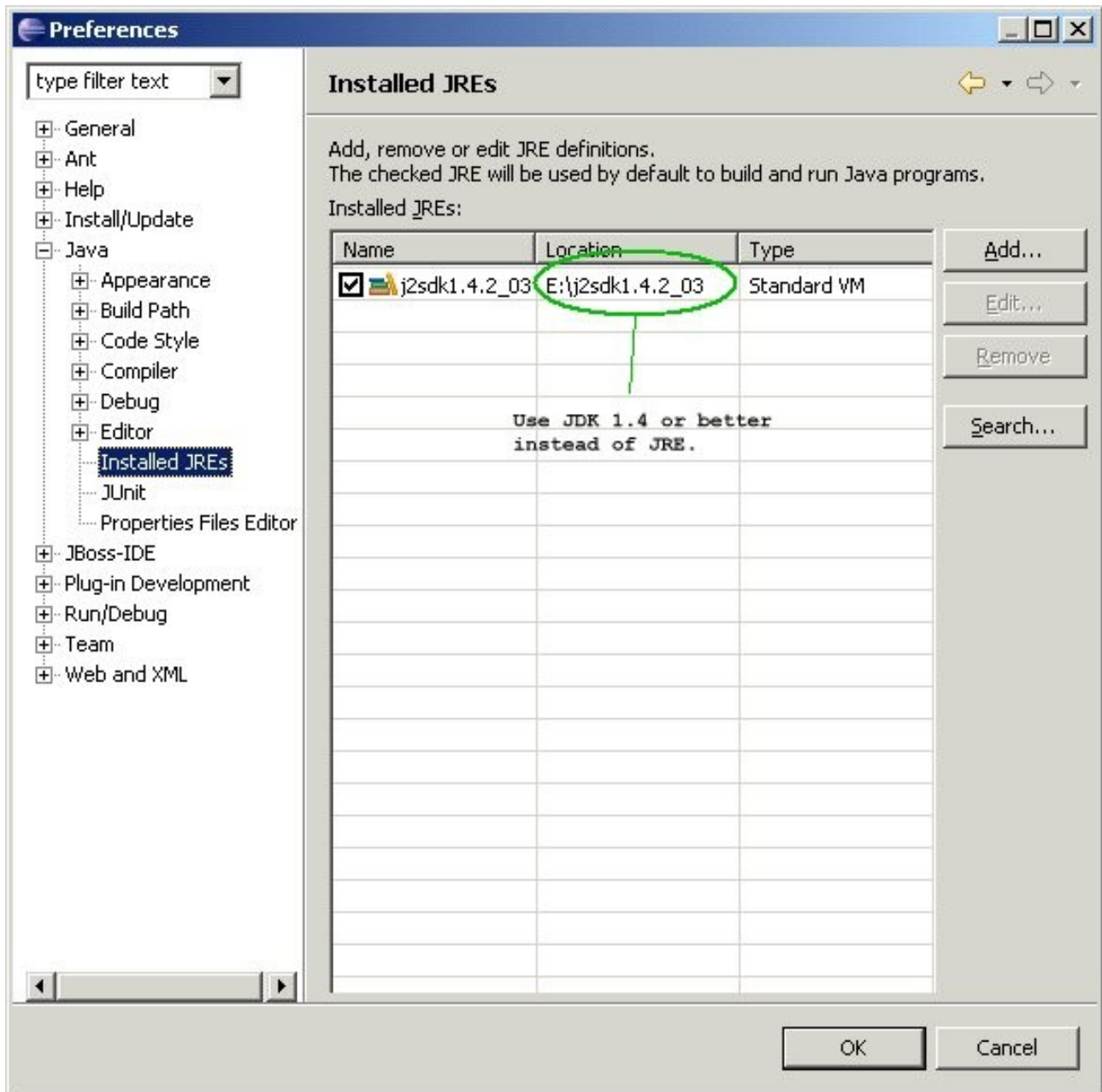Select the HOME directory
choose default configuration

Press Apply and Close.

Configuring JDK

Application servers need the java compiler (javac) to compile the jsp pages. By default, eclipse uses the JRE that does not include the compiler, so we need to change the java configuration. Open Window-Preferences menu, and do the following changes:

Configuring DataSource

Copy the default datasource file from jboss to the directory default/deploy. Rename the file to your system's name (pethotel-ds.xml, for instance)

Change the contents by entering the jdbc connection string and datasource name:

```xml
<?xml version="1.0" encoding="UTF-8"?>

<!-- ==================================================================== -->
<!--                                                                      -->
<!--   JBoss Server Configuration                                         -->
<!--                                                                      -->
<!-- ==================================================================== -->

<!-- $Id: postgres-ds.xml,v 1.3 2004/09/15 14:37:40 loubyansky Exp $ -->
<!-- ==================================================================== -->
<!--   Datasource config for Postgres                                     -->
<!-- ==================================================================== -->


<datasources>
  <local-tx-datasource>
    <jndi-name>jdbc/pethotel</jndi-name>
    <connection-url>jdbc:postgresql://localhost:5432/pethotel</connection-url>
    <driver-class>org.postgresql.Driver</driver-class>
    <user-name>atorres</user-name>
    <password></password>
        <!-- sql to call when connection is created
        <new-connection-sql>some arbitrary sql</new-connection-sql>
        -->

        <!-- sql to call on an existing pooled connection when it is obtained from
pool
        <check-valid-connection-sql>some arbitrary sql</check-valid-connection-sql>
        -->

     <!-- corresponding type-mapping in the standardjbosscmp-jdbc.xml (optional)
-->
     <metadata>
        <type-mapping>PostgreSQL 7.2</type-mapping>
     </metadata>
  </local-tx-datasource>

</datasources>
```

Appendix I – Configuring Jboss to immediately recognize changes in the username and password in the table.

Change in the jboss-service.xml file the Jaas configuration cache timeout to a small value or zero:

```
<mbean code="org.jboss.security.plugins.JaasSecurityManagerService"
    name="jboss.security:service=JaasSecurityManager">
    <attribute
name="SecurityManagerClassName">org.jboss.security.plugins.JaasSecurityManager</attribute>
    <attribute name="DefaultUnauthenticatedPrincipal">anonymous</attribute>
    <!-- DefaultCacheTimeout: Specifies the default timed cache policy timeout
    in seconds.
    If you want to disable caching of security credentials, set this to 0 to
    force authentication to occur every time. This has no affect if the
    AuthenticationCacheJndiName has been changed from the default value.
    -->
    <attribute name="DefaultCacheTimeout">0</attribute>
    <!-- DefaultCacheResolution: Specifies the default timed cache policy
    resolution in seconds. This controls the interval at which the cache
    current timestamp is updated and should be less than the DefaultCacheTimeout
    in order for the timeout to be meaningful. This has no affect if the
    AuthenticationCacheJndiName has been changed from the default value.
    -->
    <attribute name="DefaultCacheResolution">0</attribute>
</mbean>
```