

How to set up JAAS in LAMS

1. Config jboss-web.xml, the name after /jaas/ must be same with application-policy name in login-config.xml, and it is case-sensitive!!!

jboss-web.xml

```
<jboss-web>
  <security-domain>java:/jaas/LAMS</security-domain>
</jboss-web>
```

2. Config login-config.xml, which locates in \${JBOSS}/server/conf or \${JBOSS}/server/default/conf

login-config.xml

```
<application-policy name = "LAMS">
  <authentication>
    <login-module code = "org.lamsfoundation.lams.security.UniversalLoginModule" flag = "required">
      <module-option name="authenticationPropertyFile">c:/lamsconf/authentication.xml</module-option>
    </login-module>
  </authentication>
</application-policy>
```

3. In authentication.xml

authentication.xml

```
<Authentication>
?????
<Method Name="LAMS-Database" Enabled="true">
  <Param Name="dsJndiName">java:/jdbc/lams-ds</Param>
  <Param Name="principalsQuery">select password from lams_user where login=?</Param>
  <Param Name="rolesQuery">select name,'Roles' from lams_role, lams_user where login=?</Param>
</Method>
???
```

4. So, in mysql-ds.xml, which locate in \${JBOSS}/server/default/ folder, will have such definition for Data source

mysql-ds.xml

```
<datasources>
  <!-- lams-ds datasource for use by LAMS Core and Services -->
  <local-tx-datasource>
    <jndi-name>jdbc/lams-ds</jndi-name>
    ???
```

5. javax.security.auth.spi.LoginModule will implement javax.security.auth.spi.LoginModule interface

6. In login.jsp

login.jsp

```
<form action="<%= response.encodeURL("j_security_check") %>" method="post" name="form1" id="form1">
  <input name="j_username" type="text" size="15" />
  <input name="j_password" type="password" size="15" AUTOCOMPLETE="off"/>
  <input type="submit" value="Login"/>
</form>
```

7. To share JAAS across multiple web applications in one host. Adding the following line in server.xml for Tomcat container. This file is usually located in `$(JBoss)/server/default/deploy/jbossweb-tomcat55.sar`. For more details please refer to <http://jakarta.apache.org/tomcat/tomcat-5.0-doc/config/host.html#Single%20Sign%20On>

server.xml

```
<Server>
  <host ....>
    ....
    <Valve className="org.apache.catalina.authenticator.SingleSignOn" debug="0"/>
    ....
  </Host>
</Server>
```

8. For web.xml (similar for ejb-jar.xml), usually like this:

web.xml

```
<security-constraint>
  <display-name>SecurityConstraint</display-name>
  <web-resource-collection>
    <web-resource-name>STK</web-resource-name>
    <url-pattern>/*</url-pattern>
    <http-method>DELETE</http-method>
    <http-method>GET</http-method>
    <http-method>POST</http-method>
    <http-method>PUT</http-method>
  </web-resource-collection>
  <auth-constraint>
    <role-name>SYSADMIN</role-name>
  </auth-constraint>
</security-constraint>
<security-role>
  <description>SYSADMIN</description>
  <role-name>SYSADMIN</role-name>
</security-role>
<login-config>
  <auth-method>FORM</auth-method>
  <realm-name>LAMS</realm-name>
  <form-login-config>
    <form-login-page>/login.jsp</form-login-page>
    <form-error-page>/login.jsp?failed=y</form-error-page>
  </form-login-config>
</login-config>
```

9. For LAMS system special configuration in web.xml, need to add a listener:

web.xml

```
<listener>
  <listener-class>
    org.lamsfoundation.lams.web.SessionListener
  </listener-class>
</listener>
```