Integrating ApacheDS with Tomcat

1. Software(s) used:
   1. ApacheDS
   2. Apache Tomcat
2. Install Apache DS
3. The ApacheDS Data Model we used:
4. version: 1

dn: dc=jboss,dc=com

objectclass: top

objectclass: domain

dc: jboss

dn: ou=users,dc=jboss,dc=com

objectClass: organizationalUnit

objectClass: top

ou: users

dn: ou=roles,dc=jboss,dc=com

objectClass: organizationalUnit

objectClass: top

ou: roles

dn: uid=shantanu,ou=users,dc=jboss,dc=com

objectClass: organizationalPerson

objectClass: person

objectClass: inetOrgPerson

objectClass: top

cn: shantanu

sn: banerjee

uid: shantanu

userPassword:: e1NTSEF9dkdHaHVjQVNPaTExWGZBQ3RGZzU5cDZ4dEw5MTdRRlR4NGtSU0E9P

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dn: uid=pavan,ou=users,dc=jboss,dc=com

objectClass: organizationalPerson

objectClass: person

objectClass: inetOrgPerson

objectClass: top

cn: pavan

sn: kumar

uid: pavan

userPassword:: e1NTSEF9dkdHaHVjQVNPaTExWGZBQ3RGZzU5cDZ4dEw5MTdRRlR4NGtSU0E9P

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dn: cn=user,ou=roles,dc=jboss,dc=com

objectClass: groupOfUniqueNames

objectClass: top

cn: user

uniqueMember: uid=pavan,ou=users,dc=jboss,dc=com

dn: cn=admin,ou=roles,dc=jboss,dc=com

objectClass: groupOfUniqueNames

objectClass: top

cn: admin

uniqueMember: uid=pavan,ou=users,dc=jboss,dc=com

uniqueMember: uid=shantanu,ou=users,dc=jboss,dc=com

dn: cn=manager,ou=roles,dc=jboss,dc=com

objectClass: groupOfUniqueNames

objectClass: top

cn: manager

uniqueMember: uid=pavan,ou=users,dc=jboss,dc=com

dn: uid=arun,ou=users,dc=jboss,dc=com

objectClass: organizationalPerson

objectClass: person

objectClass: inetOrgPerson

objectClass: top

cn: arun

sn: kumar

uid: arun

userPassword:: e1NTSEF9dkdHaHVjQVNPaTExWGZBQ3RGZzU5cDZ4dEw5MTdRRlR4NGtSU0E9P

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1. **Now edit /opt/tomcat/conf/server.xml to include the following xml block within the <Engine …/> Element as given below**

<Realm className="org.apache.catalina.realm.JNDIRealm" debug="99"

connectionURL="ldap://<IP\_ADDRESS\_LDAP\_SERVER>:10389"

connectionName="cn=Directory Manager"

connectionPassword="secret"

userPattern="uid={0},ou=users,dc=jboss,dc=com"

roleBase="ou=roles,dc=jboss,dc=com"

roleName="cn"

roleSearch="(uniqueMember={0})" />

1. **Edit /home/training/Downloads/apps/FormAuth/WEB-INF/web.xml and add the following xml block**

<security-constraint> <web-resource-collection> <web-resource-name>All resources</web-resource-name> <url-pattern>/\*</url-pattern> <http-method>GET</http-method> <http-method>POST</http-method> </web-resource-collection> <auth-constraint> <role-name>manager</role-name> </auth-constraint> </security-constraint> <login-config> <auth-method>FORM</auth-method> <realm-name>java</realm-name> <form-login-config> <form-login-page>/login.jsp</form-login-page> <form-error-page>/error.jsp</form-error-page> </form-login-config> </login-config>

<security-role> <role-name>manager</role-name> </security-role>

1. **Create a WAR File named FormAuth.war and Deploy**

$cd /home/training/Downloads/apps/FormAuth

$jar -cvf FormAuth.war .

Scp FormAuth.war /opt/tomcat/webapps/

1. **Restart Tomcat Server**

$sh /opt/tomcat/bin/shutdown.sh

$sh /opt/tomcat/bin/startup.sh

1. **Open a Browser and enter the following url to test the application**

[**http://localhost:8080/FormAuth/demo.jsp**](http://localhost:8080/FormAuth/demo.jsp)

**Use the users you added in your LDAP Server against the roles configured.**