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黑神领主的Web开发站博客

在 口口 中检索

个人资料



这家伙很懒,什么都没有留下......

等级: (2)(2)(2)(2)(2)

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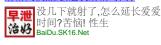
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上面的代码找不

到ResourceDetailsBuilder这个类上面已经是源码了哟,只是没有JAR包面已,你下载一下吧太大共享下源码可以么?是内存中的权限缓存,这样设置的权限可以即时生效refresh 刷新是指的什么刷新?

射精太快!怎么延长射精时间?



spring Security3.1安全框架配置教程

发表于2012-03-03 18:39 | 阅读 754 | 2人对此综合评价

前端时间一直在研究spring Security3.1这个框架,感觉用着还算不错,包括本站也是使用是了这个框架正好利用这个机会学习一下.特地给大家分享一下,希望对大家有所帮助.对这个框架的介绍就不用多说了,网上都有相关的资料.我要介绍的是如何利用数据库来存储所有的权限,这样的话就直接可以通过在数据库中增加记录来扩展权限,不用每次都要在XML中配置权限.

为了测试更加方便我用的是haldb数据库,比较简单.

首先到spring官网把最新版的spring Security安全框架的压缩文件下载下来:

http://www.springsource.org/spring-community-download

然后在Eclipse中新一个Web工程,在web.xml中加入以下权限过滤器来控制来拦截所有访问

然后在listener中引入spring 的bean配置文件:

整工程截图如下:



以下是hqldb的初始化脚本,也不用建库只要把hqldb.jar放到工程中则会自动执行.这就是工程的test.script的脚

```
1
       CREATE SCHEMA PUBLIC AUTHORIZATION DBA
       CREATE MEMORY TABLE RESC(ID BIGINT GENERATED BY DEFAULT AS IDENTITY(START WITH 1) NOT
 3
       NULL, NAME VARCHAR(50), RES_TYPE VARCHAR(50), RES_STRING VARCHAR(200), PRIORITY
       INTEGER, DESCN VARCHAR(200), CONSTRAINT PK_RESC PRIMARY KEY(ID))
       CREATE MEMORY TABLE ROLE(ID BIGINT GENERATED BY DEFAULT AS IDENTITY(START WITH 1) NOT
 5
       NULL, NAME VARCHAR(50), DESCN VARCHAR(200), CONSTRAINT PK_ROLE PRIMARY KEY(ID))
       CREATE MEMORY TABLE USER(ID BIGINT GENERATED BY DEFAULT AS IDENTITY(START WITH 1) NOT
       NULL, USERNAME VARCHAR (50), PASSWORD VARCHAR (50), STATUS INTEGER, DESCN
       VARCHAR(200), CONSTRAINT PK_USER PRIMARY KEY(ID))
      CREATE MEMORY TABLE RESC_ROLE(RESC_ID BIGINT NOT NULL, ROLE_ID BIGINT NOT NULL, CONSTRAINT PK_RESC_ROLE PRIMARY KEY(RESC_ID, ROLE_ID), CONSTRAINT FK_RESC_ROLE_RESC
10
11
       FOREIGN KEY(RESC_ID) REFERENCES RESC(ID), CONSTRAINT FK_RESC_ROLE_ROLE FOREIGN
12
       KEY(ROLE_ID) REFERENCES ROLE(ID))
CREATE MEMORY TABLE USER_ROLE(USER_ID BIGINT NOT NULL, ROLE_ID BIGINT NOT
13
14
15
       NULL, CONSTRAINT PK_USER_ROLE PRIMARY KEY(USER_ID, ROLE_ID), CONSTRAINT FK_USER_ROLE_USER
       FOREIGN KEY(USER_ID) REFERENCES USER(ID), CONSTRAINT FR_USER_ROLE_ROLE FOREIGN
16
17
       KEY(ROLE_ID) REFERENCES ROLE(ID))
       ALTER TABLE RESC ALTER COLUMN ID RESTART WITH 3
18
       ALTER TABLE ROLE ALTER COLUMN ID RESTART WITH 3
19
       ALTER TABLE USER ALTER COLUMN ID RESTART WITH 3
20
21
       CREATE USER SA PASSWORD ""
       GRANT DBA TO SA
22
23
       SET WRITE DELAY 10
24
       SET SCHEMA PUBLIC
      INSERT INTO RESC VALUES(1,'','URL','/admin.jsp',1,'')
INSERT INTO RESC VALUES(2,'','URL','/**',2,'')
25
26
27
       INSERT INFO RESC
       VALUES(3,'','METHOD','com.dev26.springsecuritybook.MessageService.adminMessage',3,'');
      INSERT INTO ROLE VALUES(1, 'ROLE_ADMIN', '\u75a1\u7406\u5458\u89d2\u8272')
INSERT INTO ROLE VALUES(2, 'ROLE_USER', '\u7528\u6237\u89d2\u8272')
INSERT INTO USER VALUES(1, 'admin', 'admin',1, '\u75a1\u7406\u5458')
INSERT INTO USER VALUES(2, 'user', 'user',1, '\u7528\u6237')
       INSERT INTO RESC_ROLE VALUES(1,1)
       INSERT INTO RESC_ROLE VALUES(2,1)
       INSERT INTO RESC_ROLE VALUES (2,2)
       INSERT INTO RESC ROLE VALUES (3,1)
       INSERT INTO USER_ROLE VALUES(1,1)
       INSERT INTO USER_ROLE VALUES(1,2)
       INSERT INTO USER_ROLE VALUES (2,2)
```

这些是基本配置文件,然后咱在分析一下spring Security的运行基制,然后在在看另一

个applicationContext.xml中的配置就比较容易了.

Spring Security是一个基于角色的权限框架(Role Based Access Control,RBAC),它通过一系列可配置的组件构建了基于Spring IOC组件装配模式的安全框架.系统中对用于分配角色,而

角色由被授于相应的权限(增加、浏览、删除、更新..),在校验的时候首先要确定用户所属地的角色,然后根据角色来判断当前用户有哪些权限。这只是Spring Security框架的部分功能,其实它比较丰富的配置和扩展比如:(用户组(Group)的配置、ACL权限配置、CAS集成等)。

首先要配置的是一个org.springframework.web.filter.DelegatingFilterProxy的过滤器在webm.xml中这是Spring Security的一个入口,它内部有一个过滤器链。学过Acegi的朋友可能比较了解,这个例子就不深究了。

以下是Secutirity本应的配置,在applicationContext.xml中

```
<?xml version="1.0" encoding="UTF-8"?>
3
      <beans:beans xmlns="http://www.springframework.org/schema/security"</pre>
      xmlns:beans="http://www.springframework.org/schema/beans
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 5
          xsi:schemaLocation="http://www.springframework.org/schema/beans
 6
7
      http://www.springframework.org/schema/beans/spring-beans-3.0.xsd
 8
                                http://www.springframework.org/schema/security
9
      http://www.springframework.org/schema/security/spring-security-3.1.xsd">
10
11
          <http auto-config="true">
12
13
          <!--通过SQL语句关联查询当前用户所拥有的权限 -->
14
15
      <authentication-manager>
16
               <authentication-provider>
                   <jdbc-user-service data-source-ref="dataSource"</pre>
17
                        users-by-username-query="select username,password,status as enabled
18
19
                                                 from user
20
                                                where username=?"
21
                        authorities-by-username-query="select u.username,r.name as authority
22
                                                        from user u
23
                                                        join user_role ur
24
                                                          on u.id=ur.user_id
25
                                                        join role r
                                                       on r.id=ur.role_id where u.username=?"
26
27
28
               </authentication-provider>
29
          </authentication-manager>
30
31
          <global-method-security />
32
      <!--更新权限缓存,不用每次重启服务
33
34
          <beans:bean id="resourceDetailsMonitor"</pre>
35
               class="com.dev26.springsecuritybook.ResourceDetailsMonitor2"
36
               autowire="byType">
37
               <beans:property name="dataSource" ref="dataSource" />
38
               <beans:property name="accessDecisionManager" ref="accessDecisionManager" />
39
          </beans:bean>
      <! -- 数据源 -->
40
          <beans:bean id="dataSource"</pre>
41
               42
43
               <beans:property name="url" value="jdbc:hsqldb:res:/hsqldb/test" />
<beans:property name="username" value="sa" />
<beans:property name="password" value="" />
44
45
46
47
          </beans:bean>
          <!--决策管理器
48
49
          <beans:bean id="accessDecisionManager"</pre>
50
               class="org.springframework.security.access.vote.AffirmativeBased">
51
               <beans:property name="allowIfAllAbstainDecisions"</pre>
                   value="false" />
52
               <beans:property name="decisionVoters">
53
54
                   <beans:list>
55
                   <beans:bean class="com.dev26.springsecuritybook.MyRoleVoter" />
56
                        <beans:bean
57
                            class="org.springframework.security.access.vote.AuthenticatedVoter"
58
59
                   </beans:list>
               </beans:property>
60
          </beans:bean>
          <beans:bean id="messageService"</pre>
               class="com.dev26.springsecuritybook.MessageServiceImpl" />
      </beans:beans>
```

权限缓存刷新类代码ResourceDetailsMonitor2

```
package com.dev26.springsecuritybook;
 2
3
      import java.util.ArrayList;
 4
      import java.util.Collection;
      import java.util.List;
     import iavax.sql.DataSource:
 8
9
      import org.springframework.beans.factory.InitializingBean;
10
      import org.springframework.security.access.AccessDecisionManager;
      import org.springframework.security.access.intercept.aopalliance.MethodSecurityInterceptor
11
12
      import org.springframework.security.access.method.DelegatingMethodSecurityMetadataSource;
13
      import org.springframework.security.access.method.MethodSecurityMetadataSource;
14
15
      org.springframework.security.web.access.intercept.FilterInvocationSecurityMetadataSource;
16
      import org.springframework.security.web.access.intercept.FilterSecurityInterceptor;
17
18
      import com.dev26.springsecuritybook.ResourceDetailsBuilder;
19
20
      public class ResourceDetailsMonitor2 implements InitializingBean {
21
            private String queryUrl = "select re.res_string,r.name" +
22
23
                                     from role r" +
                                     join resc_role rr" +
24
25
                                       on r.id=rr.role_id" +
26
                                     join resc re" +
27
                                       on re.id=rr.resc_id" +
                                where re.res_type='URL'" +
order by re.priority"; private String queryMethod =
28
29
30
            "select re.res_string,r.name" +
                                                                      from role r" +
                                     join resc_role rr" +
31
                                     on r.id=rr.role_id" +
join resc re" +
32
33
                                      on re.id=rr.resc_id" +
34
                                    where re.res_type='METHOD'" +
35
                                 order by re.priority";
36
37
38
          private DataSource dataSource;
39
          private FilterSecurityInterceptor filterSecurityInterceptor;
          private org.springframework.security.access.method.DelegatingMethodSecurityMetadataSource
40
41
      delegatingMethodDefinitionSource;
          private AccessDecisionManager accessDecisionManager;
42
          private ResourceDetailsBuilder resourceDetailsBuilder;
43
          private MethodSecuritvInterceptor methodSecuritvInterceptor:
44
          private Collection hasMethodAttribute;
45
          private Collection hasUrlAttribut;
46
47
48
          public void setQueryUrl(String queryUrl) {
49
              this.queryUrl = queryUrl;
50
          }
51
52
          public void setQueryMethod(String queryMethod) {
53
              this.queryMethod = queryMethod;
54
          }
55
56
          public void setDataSource(DataSource dataSource) {
57
              this.dataSource = dataSource;
58
          }
59
60
          public FilterSecurityInterceptor getFilterSecurityInterceptor() {
61
              return filterSecurityInterceptor;
62
63
          public void setFilterSecurityInterceptor(
64
                  FilterSecurityInterceptor filterSecurityInterceptor) {
65
              this.filterSecurityInterceptor = filterSecurityInterceptor;
66
67
68
69
          public org.springframework.security.access.method.DelegatingMethodSecurityMetadataSource
70
      getDelegatingMethodDefinitionSource()
71
              return delegatingMethodDefinitionSource;
72
73
74
          public void setDelegatingMethodDefinitionSource(
75
                  org.springframework.security.access.method.DelegatingMethodSecurityMetadataSource
      delegatingMethodDefinitionSource) {
76
              this.delegatingMethodDefinitionSource = delegatingMethodDefinitionSource;
77
78
79
80
          public ResourceDetailsBuilder getResourceDetailsBuilder() {
81
              return resourceDetailsBuilder;
82
83
84
          public void setResourceDetailsBuilder(
85
                   ResourceDetailsBuilder resourceDetailsBuilder) {
```

```
this.resourceDetailsBuilder = resourceDetailsBuilder;
 88
           public String getQueryUrl() {
 90
               return queryUrl;
 91
 92
 93
           public String getQueryMethod() {
 94
               return queryMethod;
 95
 96
 97
           public DataSource getDataSource() {
 98
               return dataSource;
 99
100
101
           public void afterPropertiesSet() {
102
               resourceDetailsBuilder = new ResourceDetailsBuilder(dataSource);
103
               filterSecuritvInterceptor
                        . {\tt setAccessDecisionManager} (accessDecisionManager);\\
104
105
               this.hasMethodAttribute = delegatingMethodDefinitionSource
106
                        .getAllConfigAttributes();
               this.hasUrlAttribut = filterSecurityInterceptor
107
108
                        .getSecurityMetadataSource().getAllConfigAttributes();
109
               refresh();
110
111
112
           public void refresh()
               if (filterSecurityInterceptor != null) {
113
114
                   FilterInvocationSecurityMetadataSource source = resourceDetailsBuilder
                            .createUrlSource(queryUrl);
115
                    source.getAllConfigAttributes().addAll(hasUrlAttribut);
116
117
                   filterSecurityInterceptor.setSecurityMetadataSource(source);
118
119
               if (delegatingMethodDefinitionSource != null) {
                   MethodSecurityMetadataSource source = resourceDetailsBuilder
120
121
                             .createMethodSource(queryMethod);
122
                    delegatingMethodDefinitionSource.getMethodSecurityMetadataSources()
123
                             .clear();
124
                    delegatingMethodDefinitionSource.getMethodSecurityMetadataSources()
125
                            .add(source);
126
                   List<MethodSecurityMetadataSource> list = new
       ArrayList<MethodSecurityMetadataSource>();
127
128
                    source.getAllConfigAttributes().addAll(hasMethodAttribute);
129
                    list.add(source);
130
                   delegatingMethodDefinitionSource = new DelegatingMethodSecurityMetadataSource(
131
                            list);
132
133
                   methodSecurityInterceptor
134
                            .setSecurityMetadataSource(delegatingMethodDefinitionSource);
135
136
                        // methodSecurityInterceptor.afterPropertiesSet();
137
                   } catch (Exception e) {
                        // TODO Auto-generated catch block
138
139
                        e.printStackTrace();
140
141
142
143
               System.out.println("---
                                                            ---refresh");
144
145
146
           public AccessDecisionManager getAccessDecisionManager() {
147
               return accessDecisionManager;
148
149
           public void setAccessDecisionManager(
150
                   AccessDecisionManager accessDecisionManager) {
151
152
               this.accessDecisionManager = accessDecisionManager;
           }
153
154
155
           public MethodSecurityInterceptor getMethodSecurityInterceptor() {
156
               return methodSecurityInterceptor;
157
158
           public void setMethodSecurityInterceptor(
                   MethodSecurityInterceptor methodSecurityInterceptor) {
               this.methodSecurityInterceptor = methodSecurityInterceptor;
```

扩展决策机制,如果用户有多个角色,只要有一个决色拥有权限则通过校验.MyRoleVoter

```
package com.dev26.springsecuritybook;
3
      import java.util.Collection;
      import org.springframework.security.access.AccessDecisionVoter;
5
      import org.springframework.security.access.ConfigAttribute;
import org.springframework.security.core.Authentication;
8
      import org.springframework.security.core.GrantedAuthority;
9
10
      public class MyRoleVoter implements AccessDecisionVoter<Object> {
          private String rolePrefix = "ROLE_";
11
12
13
          public String getRolePrefix() {
               return rolePrefix;
14
15
16
          public void setRolePrefix(String rolePrefix) {
17
18
               this.rolePrefix = rolePrefix;
19
20
21
          public boolean supports(ConfigAttribute attribute) {
22
               if ((attribute.getAttribute() != null)
                        && attribute.getAttribute().startsWith(getRolePrefix())) {
23
24
                    return true;
25
               } else {
26
                   return false;
27
28
          }
29
30
31
            * This implementation supports any type of class, because it does not
32
      query
33
              the presented secure object.
34
35
36
                   the secure object
37
38
              @return always <code>true</code>
39
40
          public boolean supports(Class<?> clazz) {
41
               return true;
42
43
44
          public int vote(Authentication authentication, Object object,
45
                   Collection<ConfigAttribute> attributes) {
46
               int result = ACCESS_ABSTAIN;
47
               Collection<? extends GrantedAuthority> authorities =
48
      extractAuthorities(authentication);
49
               for (ConfigAttribute attribute : attributes) {
                    if (this.supports(attribute)) {
50
51
                        result = ACCESS_DENIED;
                        // Attempt to find a matching granted authority for (GrantedAuthority authority: authorities) {
52
53
                             String[] roles = attribute.getAttribute().split(",");
54
55
                             for (String string : roles) {
56
                                 if (string.equals(authority.getAuthority())) {
57
                                      return ACCESS_GRANTED;
58
59
60
61
62
                   }
63
64
               return result;
65
66
          Collection<? extends GrantedAuthority> extractAuthorities(
67
68
                   Authentication authentication) {
69
               return authentication.getAuthorities();
70
```

以下是业务类,被保护的方法已经在上面的SQL脚本中进行了初始化:

```
package com.dev26.springsecuritybook;

public class MessageServiceImpl implements MessageService {
    public String adminMessage() {
        return "admin message";
    }
}
```

```
public String adminDate() {
              return "admin " + System.currentTimeMillis();
10
11
          public String userMessage() {
12
              return "user message";
13
14
15
16
          public String userDate() {
              return "user " + System.currentTimeMillis();
17
18
19
```

让我来验证一下,首先要编写一个登录页面:login.jsp

```
<%@taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
 1
      <%@ page pageEncoding="UTF-8" %>
 3
 4
      <html>
 5
        <head>
 6
          <title>Login</title>
 7
        </head>
 8
        <body onload="document.f.j_username.focus();">
 9
10
          <h1>Login</h1>
11
12
          Valid users:
13
         <
          vp>username <b>rod</b>, password <b>koala</b>
vp>username <b>dianne</b>, password <b>emu</b>
14
15
16
          vsername <b>scott</b>, password <b>wombat</b>
17
          vsername <b>peter</b>, password <b>opal</b> (user disabled)
18
          username <b>bill</b>, password <b>wombat</b>
19
          vsername <b>bob</b>, password <b>wombat</b>
20
          vsername <b>jane</b>, password <b>wombat</b>
21
22
         Locale is: <%= request.getLocale() %>
<%-- this form-login-page form is also used as the form-error-page to ask for a login again.</pre>
23
24
25
26
               --%>
          <c:if test="${not empty param.login_error}">
  <font color="red">
27
28
29
              Your login attempt was not successful, try again.<br/>
<br/>
br/>
<br/>
>
30
              Reason: <c:out value="${SPRING_SECURITY_LAST_EXCEPTION.message}"/>.
31
32
          </c:if>
33
34
          <form name="f" action="<c:url value='j_spring_security_check'/>"
35
      method="POST">
36
            User:<input type='text' name='j_username'</td>
37
      value='<c:if test="${not empty param.login_error}"><c:out
value="${SPRING_SECURITY_LAST_USERNAME}"/></c:if>'/>
38
39
40
              Password:<input type='password'
41
     name='j_password'>
42
              <input</td>type="checkbox"
      name="_spring_security_remember_me">Don't ask for my password for
43
44
      two weeks
45
46
              <input name="reset" type="reset">
            </form>
        </body>
      </html>
```

如果通过校验则进入idnex.jsp

```
<%@ taglib prefix="security"</pre>
1
      uri="http://www.springframework.org/security/tags" %>
3
      <div>username :<security:authentication</pre>
4
      property="principal.username"/></div>
5
      <hr>>
      <a href="admin.jsp">admin.jsp</a>
7
      ca href="admin-method.jsp">admin-method.jsp</a>
9
10
      <a href="user-method.jsp">user-method.jsp</a>
      <a href="j_spring_security_logout">logout</a>
```

admin的角色由都可以进行访	***
□ □ http://localho:	st:8080/Dynamic/spring_security_login;jsessionid=5D9CEC3OAE2D4C1F22
Login Page	×
le Edit View Favorites	Tools Help
Login with Username	and Password
User:	
Password:	
Login	
mame user	
nin.jsp admin-method.jsp user-meth	ood.jsp logout
果点击admin.jsp	
кж.щаатт	
ITTP Status 403	3 - Access is denied
TTT Status Too	Access is defined
ype Status report	
nessage Access is denied	
escription Access to the spec	cified resource (Access is denied) has been forbidden.
🚼 🔂 🔼 🕂	0
l'arena 🎾	达内10周年 → → 撮名即
达内科技	沙 达内10周年 → → → → → → → → → → → → → → → → → → →
评分 请 <u>登录</u> 后再对此文章评分	

viano发表于2012-05-18 13:50

refresh 刷新是指的什么刷新?

undead 发表于2012-05-23 12:16

是内存中的权限缓存,这样设置的权限可以即时生效

samng508发表于2012-08-01 09:50

大大共享下源码可以么?

undead发表于2012-08-01 13:52

上面已经是源码了哟,只是没有JAR包而已,你下载一下吧

samng508发表于2012-08-02 15:01

上面的代码找不到ResourceDetailsBuilder这个类

共5项,1页:上一页1下一页

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