

# Spring Security 4.0 + CAS4.0 实现单点登陆

作者: [cbxjj](#)

原文链接: <https://ld246.com/article/1493286571182>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

# 前言

Spring Security 4.0 + CAS4.0 整合的资料网上不多,我推荐这个,[Spring Security 4.0 CAS实现单点登录](#),然后配下来发现还是有很多问题,各种问题,各种不成功!

而且出了问题完全没有头绪

## 直接上配置好的文件

### 1. web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="3.0" xmlns="http://java.sun.com/xml/ns/javaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
    http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd">
  <context-param>
    <param-name>contextConfigLocation</param-name>
    <param-value>
      /WEB-INF/applicationContext.xml,/WEB-INF/spring-cas.xml
    </param-value>
  </context-param>
  <listener>
    <listener-class>org.jasig.cas.client.session.SingleSignOutHttpSessionListener</listener-cl
ss>
  </listener>
  <listener>
    <listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>

  </listener>

  <!-- 单点登录注销过滤器 -->
  <filter>
    <filter-name>CAS Single Sign Out Filter</filter-name>
    <filter-class>org.jasig.cas.client.session.SingleSignOutFilter</filter-class>
    <init-param>
      <param-name>casServerUrlPrefix</param-name>
      <param-value>https://cas.infozr.com:8443/cas/</param-value>
    </init-param>
  </filter>
  <filter-mapping>
    <filter-name>CAS Single Sign Out Filter</filter-name>
    <url-pattern>/*</url-pattern>
  </filter-mapping>
  <!-- spring字符编码过滤器 -->
  <filter>
    <filter-name>characterEncodingFilter</filter-name>
    <filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>
    <init-param>
      <param-name>encoding</param-name>
      <param-value>UTF-8</param-value>
    </init-param>
```

```

</filter>
<filter-mapping>
  <filter-name>characterEncodingFilter</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping>
<!-- springSecurity过滤器 -->
<filter>
  <filter-name>springSecurityFilterChain</filter-name>
  <filter-class>org.springframework.web.filter.DelegatingFilterProxy</filter-class>
</filter>
<filter-mapping>
  <filter-name>springSecurityFilterChain</filter-name>
  <url-pattern>/*</url-pattern>
</filter-mapping>

<!-- session过滤器，检查是否有session -->
<filter>
  <filter-name>onlineFilter</filter-name>
  <filter-class>cn.infozr.sso.cas.filter.OnlineFilter</filter-class>
</filter>
<filter-mapping>
  <filter-name>onlineFilter</filter-name>
  <url-pattern>*.do</url-pattern>
</filter-mapping>
<filter-mapping>
  <filter-name>onlineFilter</filter-name>
  <url-pattern>*.jsp</url-pattern>
</filter-mapping>

<!-- 定义首页 -->
<welcome-file-list>
  <welcome-file>login.html</welcome-file>
  <welcome-file>index.html</welcome-file>
</welcome-file-list>
</web-app>

```

## 2. OnlineFilter.java

```

/**
 * 登陆验证过滤
 */
public class OnlineFilter extends HttpServlet implements Filter {
    private static final long serialVersionUID = 1L;
    private String redirect_url;

    public void doFilter(ServletRequest request, ServletResponse response, FilterChain chain)
    throws IOException, ServletException {
        // 这里设置如果没有登陆将要转发到的页面
        HttpServletRequest req = (HttpServletRequest) request;
        HttpServletResponse res = (HttpServletResponse) response;
        HttpSession session = req.getSession(true);

        String requestUri = req.getRequestURI();
        String contextPath = req.getContextPath();
    }
}

```

```

String url = requestUri.substring(contextPath.length());
// 从session里取的用户名信息
String username = (String) session.getAttribute("sessionUsername");
// 这里获取session, 为了检查session里有没有保存用户信息, 没有的话回转发到登陆页面
// 判断如果没有取到用户信息,就跳转到登陆页面
if(username == null && StringUtils.isEmpty(req.getParameter("ticket"))){
    // 跳转到登陆页面
    if(isAjaxRequest(req)){
        try {
            response.getWriter().print("login");
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
    else{
        res.sendRedirect(redirect_url);
    }

} else {
    chain.doFilter(request, response);
}
}

private boolean isAjaxRequest(HttpServletRequest request) {
    String header = request.getHeader("X-Requested-With");
    if (header != null && "XMLHttpRequest".equals(header))
        return true;
    else
        return false;
}

public void init(FilterConfig filterConfig) throws ServletException {
    StringBuilder url = new StringBuilder();
    url.append("https://cas.infozr.com:8443/cas");
    url.append("/login?service=");
    url.append("http://192.168.0.110:8080/infozr_upms/login/cas");
    redirect_url = url.toString();
}
}

```

### 3. spring-cas.xml

```

<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:p="http://www.springframework.org/schema/p"
    xmlns:context="http://www.springframework.org/schema/context"
    xmlns:sec="http://www.springframework.org/schema/security"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
        http://www.springframework.org/schema/beans/spring-beans-4.2.xsd
        http://www.springframework.org/schema/context
        http://www.springframework.org/schema/context/spring-context-4.2.xsd
        http://www.springframework.org/schema/security
        http://www.springframework.org/schema/security/spring-security-4.2.xsd"
    default-lazy-init="true">

```

```

<!-- 浏览权限设定，根据自己的情况修改 -->
<sec:http auto-config="false" use-expressions="false" disable-url-rewriting="false"
    entry-point-ref="casProcessingFilterEntryPoint">
    <sec:headers disabled="true"/>
    <sec:intercept-url pattern="/login/cas*" access="IS_AUTHENTICATED_ANONYMOUSLY"
>
    <sec:intercept-url pattern="/**" access="IS_AUTHENTICATED_ANONYMOUSLY"/>
    <sec:custom-filter position="CAS_FILTER" ref="casAuthenticationFilter" />
    <sec:logout logout-success-url="https://cas.infozr.com:8443/cas/logout"/>
    <sec:custom-filter ref="requestSingleLogoutFilter" before="LOGOUT_FILTER"/>
    <sec:custom-filter ref="singleLogoutFilter" before="CAS_FILTER"/>
    <sec:csrf disabled="true"/>
    <!-- <sec:custom-filter ref="csrfTokenFilter" after="CSRF_FILTER"/> -->
</sec:http>

<!-- CSRF Configuration
<bean id="csrfTokenFilter" class="com.test.cloud.security.CsrfTokenFilter"/>
-->

<sec:authentication-manager alias="authenticationManager">
    <sec:authentication-provider ref="casAuthenticationProvider"/>
</sec:authentication-manager>

<!-- 注销客户端 -->
<bean id="singleLogoutFilter" class="org.jasig.cas.client.session.SingleSignOutFilter"/>
<!-- 注销服务器端 -->
<!-- This filter redirects to the CAS Server to signal Single Logout should be performed -->

<bean id="requestSingleLogoutFilter" class="org.springframework.security.web.authentication.logout.LogoutFilter">
    <constructor-arg value="http://cas.infozr.com:8080/cas/logout"/>
    <constructor-arg>
        <bean class="org.springframework.security.web.authentication.logout.SecurityContextLogoutHandler"/>
    </constructor-arg>
    <property name="filterProcessesUrl" value="/logout/cas"/>
</bean>

<bean id="casAuthenticationFilter" class="org.springframework.security.cas.web.CasAuthenticationFilter">
    <property name="authenticationManager" ref="authenticationManager"/>
    <!-- 认证成功返回的页面，此处做了修改，这个类是继续之前的操作。默认类是设置一个固定的页面 -->
    <!-- 登录成功处理，将用户信息存入session -->
    <property name="authenticationSuccessHandler">
        <bean class="cn.infozr.sso.cas.service.CasAuthenticationSuccessHandler">
            <!-- cas登录成功后跳转页面 -->
            <property name="defaultTargetUrl" value="/admin.jsp"/>
            <!-- <property name="usersDao" ref="resourcesDao"/>
            <property name="resDao" ref="resourcesDao"/> -->
        </bean>
    </property>

```

```

    </property>
    <!-- 认证失败返回的页面(非403错误) -->
    <property name="authenticationFailureHandler">
        <bean class="org.springframework.security.web.authentication.SimpleUrlAuthenticationFailureHandler">
            <property name="defaultFailureUrl" value="/static/html/errors/403.html"/>
        </bean>
    </property>
</bean>

<bean id="casProcessingFilterEntryPoint" class="org.springframework.security.cas.web.CasAuthenticationEntryPoint">
    <!-- 单点登录服务器登录URL -->
    <property name="loginUrl" value="https://cas.infozr.com:8443/cas/login"/>
    <property name="serviceProperties" ref="serviceProperties"/>
</bean>

<bean id="userDetailsManager" class="cn.infozr.sso.cas.service.UserDetailsManager"/>

<bean id="casAuthenticationProvider"
    class="org.springframework.security.cas.authentication.CasAuthenticationProvider">
    <!-- 注入获取tsp用户的service -->
    <property name="authenticationUserDetailsService">
        <bean class="org.springframework.security.core.userdetails.UserDetailsByNameServiceWrapper">
            <constructor-arg ref="userDetailsManager" />
        </bean>
    </property>
    <property name="serviceProperties" ref="serviceProperties"/>
    <property name="ticketValidator">
        <bean class="org.jasig.cas.client.validation.Cas20ServiceTicketValidator">
            <constructor-arg index="0" value="https://cas.infozr.com:8443/cas"/>
        </bean>
    </property>
    <property name="key" value="an_id_for_this_auth_provider_only"/>
</bean>

<bean id="serviceProperties" class="org.springframework.security.cas.ServiceProperties">
    <!-- [login/cas]是Spring Security 4.0后修改的地址、跟3.X版本完全不同、请勿修改-->
    <!-- Cas Server认证成功后的跳转地址，这里要跳转到我们的Spring Security应用，之后会由CsAuthenticationFilter处理，默认处理地址为/j_spring_cas_security_check -->
    <property name="service" value="http://192.168.0.110:8080/infozr_upms/login/cas"/>
    <property name="sendRenew" value="false"/>
</bean>
</beans>

```

注意:serviceProperties里面的属性service必须和OnlineFilter里面的跳转url后面的service=的值保持一致

## 4.CasAuthenticationSuccessHandler.java

```

public class CasAuthenticationSuccessHandler extends SimpleUrlAuthenticationSuccessHandler{

```

```

private static Logger logger = LogManager.getLogger(CasAuthenticationSuccessHandler.class);

@Resource
private BaseDAO usersDao;

@Resource
private BaseDAO resDao;

public void setUsersDao(BaseDAO usersDao) {
    this.usersDao = usersDao;
}

public void setResDao(BaseDAO resDao) {
    this.resDao = resDao;
}

@Override
public void onAuthenticationSuccess(HttpServletRequest request, HttpServletResponse response, Authentication authentication) throws IOException, ServletException {
    String username = ((UserDetails) authentication.getPrincipal()).getUsername();
    logger.info("cas验证成功,username={},username);
    request.getSession().setAttribute("sessionUsername", username);

    super.onAuthenticationSuccess(request, response, authentication);
}
}

```

## 5. UserDetailsManager.java

```

public class UserDetailsManager implements UserDetailsService {

    /**
     * 此处的参数[loginId]为CAS登录画面输入的用户名
     */
    @Override
    public UserDetails loadUserByUsername(final String loginId) throws UsernameNotFoundException {
        final Collection<GrantedAuthority> auths = new ArrayList<GrantedAuthority>();
        System.out.println(loginId);

        UserDetails userDetails = new UserDetails() {
            /**
             * Returns the authorities granted to the user. Cannot return
             * <code>null</code>.
             *
             * @return the authorities, sorted by natural key (never
             * <code>null</code>)
             */
            @Override
            public Collection<? extends GrantedAuthority> getAuthorities() {
                SimpleGrantedAuthority authority = new SimpleGrantedAuthority("ROLE_USER");
            }
        };
    }
}

```

```

        auths.add(authority);

        return auths;
    }

    /**
     * Returns the password used to authenticate the user.
     *
     * @return the password
     */
    @Override
    public String getPassword() {
        return "11";
    }

    /**
     * Returns the username used to authenticate the user. Cannot return
     * <code>null</code> .
     *
     * @return the username (never <code>null</code>)
     */
    @Override
    public String getUsername() {
        return loginId;
    }

    /**
     * Indicates whether the user's account has expired. An expired
     * account cannot be authenticated.
     *
     * @return <code>true</code> if the user's account is valid (ie
     *         non-expired), <code>false</code> if no longer valid (ie
     *         expired)
     */
    @Override
    public boolean isAccountNonExpired() {
        return true;
    }

    /**
     * Indicates whether the user is locked or unlocked. A locked user
     * cannot be authenticated.
     *
     * @return <code>true</code> if the user is not locked,
     *         <code>false</code> otherwise
     */
    @Override
    public boolean isAccountNonLocked() {
        return true;
    }

    /**
     * Indicates whether the user's credentials (password) has expired.
     * Expired credentials prevent authentication.

```



```

*
* @return <code>true</code> if the user's credentials are valid (ie
*     non-expired), <code>false</code> if no longer valid (ie
*     expired)
*/
@Override
public boolean isCredentialsNonExpired() {
    return true;
}

/**
* Indicates whether the user is enabled or disabled. A disabled
* user cannot be authenticated.
*
* @return <code>true</code> if the user is enabled,
*     <code>false</code> otherwise
*/
@Override
public boolean isEnabled() {
    return true;
}
};

return userDetails;
}
}
</br>
</br>

```

---

手机游戏源码素材网: <http://www.codegather.com>