

SpringSecurity源码分析

1 在web.xml文件中配置

问题:为什么DelegatingFilterProxy的filter-name必须是springSecurityFilterChain?

DelegatingFilterProxy并不是真正的Filter,在其initFilterBean方法中会从WebApplicationContext根据delegate 来获取到

```
protected void initFilterBean() throws ServletException {
        synchronized (this.delegateMonitor) {
            if (this.delegate == null) {
                // If no target bean name specified, use filter name.
                if (this.targetBeanName == null) {
                    this.targetBeanName = getFilterName();
                // Fetch Spring root application context and initialize the delegate early,
                // if possible. If the root application context will be started after this
                // filter proxy, we'll have to resort to lazy initialization.
                WebApplicationContext wac = findWebApplicationContext();
                if (wac != null) {
                    this.delegate = initDelegate(wac);
                }
            }
        }
   }
```

在上这代码中this.targetBeanName=getFilterName()就是获取名称叫做springSecurityFilterChain

通过在doFilter就去中我们会发现真正干活的其实是delegate这个Filter,而delegate其实就是FilterChainProxy



FilterChainProxy是spring在解析配置文件时装配到上下文中,并且beanName为springSecurityFilterChain,

因此在web.xml中需要配置filter-name为springSecurityFilterChain

2.在spring-security.xml文件中配置

在配置文件中我们主要使用标签来过多成配置

```
<!-- 配置不拦截的资源 -->
<security:http pattern="/login.jsp" security="none"/>
<security:http pattern="/failer.jsp" security="none"/>
<security:http pattern="/css/**" security="none"/>
<security:http pattern="/img/**" security="none"/>
<security:http pattern="/plugins/**" security="none"/>
<security:http auto-config="true" use-expressions="false">
    <security:intercept-url pattern="/**" access="ROLE_USER,ROLE_ADMIN"/>
    <security:form-login</pre>
                         login-page="/login.jsp"
                         login-processing-url="/login.do"
                         default-target-url="/index.jsp"
                         authentication-failure-url="/failer.jsp"
                         authentication-success-forward-url="/pages/main.jsp"
                         />
</security:http>
```

http标签是自定义标签,我们可以在spring-security-config包中查看

```
http\://www.springframework.org/schema/security=org.springframework.security.config.SecurityName spaceHandler
```

继续查看SecurityNamespaceHandler类,在其init方法



```
public void init() {
    loadParsers();
}
```

在loadParsers()方法中,指定由HttpSecurityBeanDefinitionParser进行解析

```
parsers.put(Elements.HTTP, new HttpSecurityBeanDefinitionParser());
```

在HttpSecurityBeanDefinitionParser完成具体解析的parse方法中

```
registerFilterChainProxyIfNecessary(pc, pc.extractSource(element));
```

这里就是注册了名为springSecurityFilterChain的filterChainProxy类

接下我们在看一下注册一系列Filter的地方createFilterChain,在这个方法中我们重点关注

我们可以查看AuthenticationConfigBuilder创建代码

```
public AuthenticationConfigBuilder(Element element, boolean forceAutoConfig,
            ParserContext pc, SessionCreationPolicy sessionPolicy,
            BeanReference requestCache, BeanReference authenticationManager,
            BeanReference sessionStrategy, BeanReference portMapper,
            BeanReference portResolver, BeanMetadataElement csrfLogoutHandler) {
        this.httpElt = element;
        this.pc = pc;
        this.requestCache = requestCache;
        autoConfig = forceAutoConfig
                "true".equals(element.getAttribute(ATT AUTO CONFIG));
        this.allowSessionCreation = sessionPolicy != SessionCreationPolicy.NEVER
                && sessionPolicy != SessionCreationPolicy.STATELESS;
        this.portMapper = portMapper;
        this.portResolver = portResolver;
        this.csrfLogoutHandler = csrfLogoutHandler;
        createAnonymousFilter();
        createRememberMeFilter(authenticationManager);
        createBasicFilter(authenticationManager);
        createFormLoginFilter(sessionStrategy, authenticationManager);
        createOpenIDLoginFilter(sessionStrategy, authenticationManager);
        createX509Filter(authenticationManager);
        createJeeFilter(authenticationManager);
        createLogoutFilter();
        createLoginPageFilterIfNeeded();
```



createUserDetailsServiceFactory();
 createExceptionTranslationFilter();
}