● Spring Authorization Server (8) 授权服务的默认认证方式扩展

爱吃西瓜的胖娃 2023-10-15 ◎ 489 ⑤ 阅读10分钟

关注

```
架构版本
Spring Boot 3.1
Spring Authorization Server 1.1.1
spring-cloud 2022.0.3
spring-cloud-alibaba 2022.0.0.0
完整代码
watermelon-cloud
```

授权服务的默认认证方式



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默认的 /login ,且只有用户名和密码模式,就这个页面

Please sign in

Username

Password

Sign in

G Sign in with Gitee

「Sign in with Github

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密码我万一那天忘记了咋办,随便看看现在的谁家的网站,手机号+验证码没有,这也太low了,必须得加一个啊!

那先看看默认的 /login 它怎么玩的,我们就跟着它一样玩

授权服务默认登录

默认登录url /login ,能找到对应的filter UsernamePasswordAuthenticationFilter ,需要从这个地方先入手,点进去看看

UsernamePasswordAuthenticationFilter



```
public class UsernamePasswordAuthenticationFilter extends >AbstractAuthenticationProcessin
       public static final String SPRING_SECURITY_FORM_USERNAME_KEY = "username";
3
4
       public static final String SPRING_SECURITY_FORM_PASSWORD_KEY = "password";
5
7
       private static final AntPathRequestMatcher DEFAULT_ANT_PATH_REQUEST_MATCHER = new >AntI
8
               "POST");
9
10
       private String usernameParameter = SPRING_SECURITY_FORM_USERNAME_KEY;
11
       private String passwordParameter = SPRING_SECURITY_FORM_PASSWORD_KEY;
12
13
14
       private boolean postOnly = true;
15
       public UsernamePasswordAuthenticationFilter() {
16
17
           super(DEFAULT_ANT_PATH_REQUEST_MATCHER);
18
       }
19
       public UsernamePasswordAuthenticationFilter(AuthenticationManager authenticationManager
20
           super(DEFAULT_ANT_PATH_REQUEST_MATCHER, authenticationManager);
21
22
       }
23
24
       @Override
       public Authentication attemptAuthentication(HttpServletRequest request, HttpServletRes;
25
               throws AuthenticationException {
26
27
           if (this.postOnly && !request.getMethod().equals("POST")) {
               throw new AuthenticationServiceException("Authentication method not supported:
28
29
           String username = obtainUsername(request);
30
           username = (username != null) ? username.trim() : "";
31
           String password = obtainPassword(request);
32
           password = (password != null) ? password : "";
33
           UsernamePasswordAuthenticationToken authRequest = UsernamePasswordAuthenticationTol
34
35
                   password);
           // Allow subclasses to set the "details" property
36
           setDetails(request, authRequest);
37
           return this.getAuthenticationManager().authenticate(authRequest);
38
39
       }
40
```

UsernamePasswordAuthenticationFilter 继承 AbstractAuthenticationProcessingFilter 的 重写了 attemptAuthentication() 方法

构造了 UsernamePasswordAuthenticationToken 対象



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UsernamePasswordAuthenticationToken 对于的 DaoAuthenticationProvider 处理,最后返回了 Authentication 这个流程应该已经很熟悉了吧。

最后看看怎么走 UsernamePasswordAuthenticationFilter 的父类是一个抽象类

 $Abstract Authentication {\tt Processing Filter}$

AbstractAuthenticationProcessingFilter

```
₹i
              java
          public abstract class AbstractAuthenticationProcessingFilter extends GenericFilterBean
 2
                            implements ApplicationEventPublisherAware, MessageSourceAware {
 3
 4
                  private SessionAuthenticationStrategy sessionStrategy = new NullAuthenticatedSessionStr
 6
 7
 8
                  //
 9
                  private SecurityContextRepository securityContextRepository = new RequestAttributeSecurityContextRepository
10
11
12
                  public abstract Authentication attemptAuthentication(HttpServletRequest request, HttpServletRequest request, HttpServletRequest, HttpServletR
                                      throws AuthenticationException, IOException, ServletException;
13
14
15
16
                  private void doFilter(HttpServletRequest request, HttpServletResponse response, Filter(
                                      throws IOException, ServletException {
17
                            if (!requiresAuthentication(request, response)) {
18
19
                                      chain.doFilter(request, response);
20
                                      return;
21
                            }
                            try {
22
23
                                      Authentication authenticationResult = attemptAuthentication(request, response)
24
                                      if (authenticationResult == null) {
                                                // return immediately as subclass has indicated that it hasn't completed
25
                                                return;
26
27
                                      this.sessionStrategy.onAuthentication(authenticationResult, request, response)
28
29
                                      // Authentication success
                                      if (this.continueChainBeforeSuccessfulAuthentication) {
30
```



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```
} catch (InternalAuthenticationServiceException failed) {
35
               this.logger.error("An internal error occurred while trying to authenticate the
               unsuccessfulAuthentication(request, response, failed);
36
           } catch (AuthenticationException ex) {
37
               // Authentication failed
38
               unsuccessfulAuthentication(request, response, ex);
39
40
           }
41
       }
42
43
```

Authentication authenticationResult = attemptAuthentication(request, response); 这行会 执行子类的 attemptAuthentication() 最后处理登录成功相关的了。\

那扩展肯定这个 attemptAuthentication() 方法是关键了

也同样继承 AbstractAuthenticationProcessingFilter 去实现一个 Filter 这样不行,因为 AbstractAuthenticationProcessingFilter 中有两个变量 securityContextRepository 、 sessionStrategy 当是 UsernamePasswordAuthenticationFilter 时 初始化的值就不一样了,这样就导致我们和 UsernamePasswordAuthenticationFilter 的后续处理成功流程就不一样,导致一直认证失败的。

后续的filter 注入的时候代码中会体现出来。

扩展

手机号+验证码

UserAuthenticationProcessingFilter

自定义一个 UserAuthenticationProcessingFilter 与

AbstractAuthenticationProcessingFilter 类似



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₹#

```
public abstract class UserAuthenticationProcessingFilter extends GenericFilterBean
2
         implements ApplicationEventPublisherAware, MessageSourceAware {
3
      private SecurityContextHolderStrategy securityContextHolderStrategy = SecurityContextHo.
4
5
            .getContextHolderStrategy();
6
7
      protected ApplicationEventPublisher eventPublisher;
8
9
      protected AuthenticationDetailsSource<HttpServletRequest, ?> authenticationDetailsSource
10
      private AuthenticationManager authenticationManager;
11
12
13
      protected MessageSourceAccessor messages = SpringSecurityMessageSource.getAccessor();
14
15
      private RememberMeServices rememberMeServices = new NullRememberMeServices();
16
17
      private RequestMatcher requiresAuthenticationRequestMatcher;
18
19
      private boolean continueChainBeforeSuccessfulAuthentication = false;
20
21
      private SessionAuthenticationStrategy sessionStrategy = new NullAuthenticatedSessionStrategy
22
23
      private boolean allowSessionCreation = true;
24
25
      private AuthenticationSuccessHandler successHandler = new SavedRequestAwareAuthentication
26
27
      private AuthenticationFailureHandler failureHandler = new SimpleUrlAuthenticationFailure
28
29
      private SecurityContextRepository securityContextRepository = new RequestAttributeSecur:
30
31
32
      protected UserAuthenticationProcessingFilter(String defaultFilterProcessesUrl) {
         setFilterProcessesUrl(defaultFilterProcessesUrl);
33
34
      }
35
36
      protected UserAuthenticationProcessingFilter(RequestMatcher requiresAuthenticationRequest
37
         Assert.notNull(requiresAuthenticationRequestMatcher, "requiresAuthenticationRequestMatcher,"
38
39
         this.requiresAuthenticationRequestMatcher = requiresAuthenticationRequestMatcher;
40
      }
41
42
      protected UserAuthenticationProcessingFilter(String defaultFilterProcessesUrl,
43
44
                                                     AuthenticationManager authenticationManage
45
         setFilterProcessesUrl(defaultFilterProcessesUrl);
         setAuthenticationManager(authenticationManager);
46
```



```
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50
            protected UserAuthenticationProcessingFilter(RequestMatcher requiresAuthenticationRequestMatcher requiresAuthenticati
51
                                                                                                              AuthenticationManager authenticationManage
                   setRequiresAuthenticationRequestMatcher(requiresAuthenticationRequestMatcher);
52
                   setAuthenticationManager(authenticationManager);
53
            }
54
55
56
            @Override
57
            public void afterPropertiesSet() {
                   Assert.notNull(this.authenticationManager, "authenticationManager must be specified"
58
            }
59
60
61
62
            @Override
63
            public void doFilter(ServletRequest request, ServletResponse response, FilterChain chair
                         throws IOException, ServletException {
64
                   doFilter((HttpServletRequest) request, (HttpServletResponse) response, chain);
65
66
            }
67
68
            private void doFilter(HttpServletRequest request, HttpServletResponse response, FilterCl
                         throws IOException, ServletException {
69
                   if (!requiresAuthentication(request, response)) {
70
71
                         chain.doFilter(request, response);
                         return;
72
73
                   }
74
                  try {
75
                         Authentication authenticationResult = attemptAuthentication(request, response);
76
                         if (authenticationResult == null) {
                                // return immediately as subclass has indicated that it hasn't completed
77
78
                                return;
79
80
                         this.sessionStrategy.onAuthentication(authenticationResult, request, response);
                         // Authentication success
81
                         if (this.continueChainBeforeSuccessfulAuthentication) {
82
83
                                chain.doFilter(request, response);
84
85
                         successfulAuthentication(request, response, chain, authenticationResult);
86
                   }
                   catch (InternalAuthenticationServiceException failed) {
87
                         this.logger.error("An internal error occurred while trying to authenticate the use
88
89
                         unsuccessfulAuthentication(request, response, failed);
90
91
                   catch (AuthenticationException ex) {
                         // Authentication failed
92
                         unsuccessfulAuthentication(request, response, ex);
93
94
                   }
95
            }
```



Q

96

```
99
         if (this.requiresAuthenticationRequestMatcher.matches(request)) {
100
            return true;
101
         }
         if (this.logger.isTraceEnabled()) {
102
103
            this.logger
                  .trace(LogMessage.format("Did not match request to %s", this.requiresAuthen
104
105
         }
106
         return false;
107
108
109
      public abstract Authentication attemptAuthentication(HttpServletRequest request, HttpSer
110
            throws AuthenticationException, IOException, ServletException;
111
112
113
      protected void successfulAuthentication(HttpServletRequest request, HttpServletResponse
114
115
            Authentication authResult) throws IOException, ServletException {
         SecurityContext context = this.securityContextHolderStrategy.createEmptyContext();
116
117
         context.setAuthentication(authResult);
         this.securityContextHolderStrategy.setContext(context);
118
         this.securityContextRepository.saveContext(context, request, response);
119
120
         if (this.logger.isDebugEnabled()) {
            this.logger.debug(LogMessage.format("Set SecurityContextHolder to %s", authResult
121
122
         this.rememberMeServices.loginSuccess(request, response, authResult);
123
         if (this.eventPublisher != null) {
124
            this.eventPublisher.publishEvent(new InteractiveAuthenticationSuccessEvent(authRe:
125
126
         }
127
         this.successHandler.onAuthenticationSuccess(request, response, authResult);
128
      }
129
130
      protected void unsuccessfulAuthentication(HttpServletRequest request, HttpServletRespons
131
132
            AuthenticationException failed) throws IOException, ServletException {
133
         this.securityContextHolderStrategy.clearContext();
         this.logger.trace("Failed to process authentication request", failed);
134
         this.logger.trace("Cleared SecurityContextHolder");
135
         this.logger.trace("Handling authentication failure");
136
         this.rememberMeServices.loginFail(request, response);
137
138
         this.failureHandler.onAuthenticationFailure(request, response, failed);
139
      }
140
      protected AuthenticationManager getAuthenticationManager() {
141
         return this.authenticationManager;
142
143
144
145
      public void setAuthenticationManager(AuthenticationManager authenticationManager) {
```



```
148
149
             public void setFilterProcessesUrl(String filterProcessesUrl) {
150
                    setRequiresAuthenticationRequestMatcher(new AntPathRequestMatcher(filterProcessesUrl
151
             }
152
153
154
             public final void setRequiresAuthenticationRequestMatcher (RequestMatcher requestMatcher)
155
                    Assert.notNull(requestMatcher, "requestMatcher cannot be null");
                    this.requiresAuthenticationRequestMatcher = requestMatcher;
156
157
             }
158
             public RememberMeServices getRememberMeServices() {
159
160
                    return this.rememberMeServices;
161
162
             public void setRememberMeServices(RememberMeServices rememberMeServices) {
163
164
                    Assert.notNull(rememberMeServices, "rememberMeServices cannot be null");
                    this.rememberMeServices = rememberMeServices;
165
166
167
168
169
             public void setContinueChainBeforeSuccessfulAuthentication(boolean continueChainBeforeSuccessfulAuthentication(boolean continueChainBeforeSuccessfulAuthentication(boolea
                    this.continueChainBeforeSuccessfulAuthentication = continueChainBeforeSuccessfulAuthe
170
171
172
173
             @Override
174
             public void setApplicationEventPublisher(ApplicationEventPublisher eventPublisher) {
                   this.eventPublisher = eventPublisher;
175
176
             }
177
178
             public void setAuthenticationDetailsSource(
179
                          AuthenticationDetailsSource<HttpServletRequest, ?> authenticationDetailsSource) {
                    Assert.notNull(authenticationDetailsSource, "AuthenticationDetailsSource required");
180
181
                    this.authenticationDetailsSource = authenticationDetailsSource;
182
             }
183
             @Override
184
             public void setMessageSource(MessageSource messageSource) {
185
186
                    this.messages = new MessageSourceAccessor(messageSource);
187
             }
188
189
             protected boolean getAllowSessionCreation() {
                    return this.allowSessionCreation;
190
191
             }
192
193
             public void setAllowSessionCreation(boolean allowSessionCreation) {
194
                    this.allowSessionCreation = allowSessionCreation;
```



```
197
      public void setSessionAuthenticationStrategy(SessionAuthenticationStrategy sessionStrate
198
         this.sessionStrategy = sessionStrategy;
199
      }
200
      public void setAuthenticationSuccessHandler(AuthenticationSuccessHandler successHandler)
201
202
         Assert.notNull(successHandler, "successHandler cannot be null");
203
         this.successHandler = successHandler;
204
      }
205
      public void setAuthenticationFailureHandler(AuthenticationFailureHandler failureHandler)
206
207
         Assert.notNull(failureHandler, "failureHandler cannot be null");
208
         this.failureHandler = failureHandler;
209
      }
210
211
      public void setSecurityContextRepository(SecurityContextRepository securityContextRepository)
212
213
         Assert.notNull(securityContextRepository, "securityContextRepository cannot be null"
214
         this.securityContextRepository = securityContextRepository;
215
216
217
218
      public void setSecurityContextHolderStrategy(SecurityContextHolderStrategy securityContextHolderStrategy)
         Assert.notNull(securityContextHolderStrategy, "securityContextHolderStrategy cannot |
219
220
         this.securityContextHolderStrategy = securityContextHolderStrategy;
      }
221
222
223
      protected AuthenticationSuccessHandler getSuccessHandler() {
         return this.successHandler;
224
225
      }
226
      protected AuthenticationFailureHandler getFailureHandler() {
227
228
         return this.failureHandler;
229
      }
230
231 }
```

PhoneCaptchaAuthenticationToken

■ java 位 复制代码

1 public class PhoneCaptchaAuthenticationToken extends AbstractAuthenticationToken {
2
3 private final Object principal;



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```
7
       public PhoneCaptchaAuthenticationToken(Object principal, Object credentials) {
8
           super(null);
           this.principal = principal;
9
           this.credentials = credentials;
10
11
           setAuthenticated(false);
12
       }
13
14
       public PhoneCaptchaAuthenticationToken(Object principal, Object credentials,
15
16
                                                   Collection<? extends GrantedAuthority> authority
17
           super(authorities);
18
           this.principal = principal;
           this.credentials = credentials;
19
           super.setAuthenticated(true); // must use super, as we override
20
21
       }
22
23
24
       public static PhoneCaptchaAuthenticationToken unauthenticated(Object principal, Object
           return new PhoneCaptchaAuthenticationToken(principal, credential);
25
26
       }
27
28
29
       public static PhoneCaptchaAuthenticationToken authenticated(Object principal, Object cr
                                                                         Collection<? extends Gr
30
           return new PhoneCaptchaAuthenticationToken(principal, credentials, authorities);
31
32
       }
33
       @Override
34
       public Object getCredentials() {
35
           return this.credentials;
36
37
       }
38
       @Override
39
       public Object getPrincipal() {
40
           return this.principal;
41
42
       }
43
44
       @Override
45
       public void setAuthenticated(boolean isAuthenticated) throws IllegalArgumentException ·
46
           Assert.isTrue(!isAuthenticated,
47
                   "Cannot set this token to trusted - use constructor which takes a GrantedAı
           super.setAuthenticated(false);
48
49
       }
50
51
       @Override
52
       public void eraseCredentials() {
```



```
2024/8/15 18:13
```

```
55 }
56 }
```

PhoneCaptchaAuthenticationProvider

```
₹
     java
   @Component
    public class PhoneCaptchaAuthenticationProvider
3
              implements AuthenticationProvider {
4
5
      protected final Log logger = LogFactory.getLog(getClass());
6
7
      protected MessageSourceAccessor messages = SpringSecurityMessageSource.getAccessor();
8
9
      private UserCache userCache = new NullUserCache();
10
11
      private final boolean forcePrincipalAsString = false;
12
13
      protected boolean hideUserNotFoundExceptions = true;
14
15
      private UserDetailsChecker preAuthenticationChecks = new DefaultPreAuthenticationChecks
16
      private UserDetailsChecker postAuthenticationChecks = new DefaultPostAuthenticationCheck
17
18
19
      private GrantedAuthoritiesMapper authoritiesMapper = new NullAuthoritiesMapper();
20
21
     @Lazy
22
     @Autowired
23
      public UserDetailsService userDetailsService;
24
25
26
     @Override
27
      public Authentication authenticate(Authentication authentication) throws Authentication
28
              Assert.isInstanceOf(PhoneCaptchaAuthenticationToken.class, authentication,
29
                              () -> this.messages.getMessage("PhoneCaptchaAuthenticationProvi
                                              "Only PhoneCaptchaAuthenticationToken is suppor
30
              String username = determineUsername(authentication);
31
              boolean cacheWasUsed = true;
32
              UserDetails user = this.userCache.getUserFromCache(username);
```



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```
36
                      try {
37
                              user = retrieveUser(username, (PhoneCaptchaAuthenticationToken)
38
                      }
                      catch (UsernameNotFoundException ex) {
39
                              this.logger.debug("Failed to find phone '" + username + "'");
40
                              if (!this.hideUserNotFoundExceptions) {
42
                                       throw ex;
43
                              throw new BadCredentialsException(this.messages
44
                                               .getMessage("PhoneCaptchaAuthenticationProvider
45
                      }
46
                      Assert.notNull(user, "retrieveUser returned null - a violation of the i
47
              }
48
49
              try {
                      this.preAuthenticationChecks.check(user);
50
              }
52
              catch (AuthenticationException ex) {
                      if (!cacheWasUsed) {
53
54
                              throw ex;
                      }
55
                      // There was a problem, so try again after checking
56
57
                      // we're using latest data (i.e. not from the cache)
                      cacheWasUsed = false;
58
59
                      user = retrieveUser(username, (PhoneCaptchaAuthenticationToken) authent
                      this.preAuthenticationChecks.check(user);
60
61
              }
62
              this.postAuthenticationChecks.check(user);
              if (!cacheWasUsed) {
63
                      this.userCache.putUserInCache(user);
64
65
              Object principalToReturn = user;
66
              if (this.forcePrincipalAsString) {
67
                      principalToReturn = user.getUsername();
68
69
70
              Authentication successAuthentication = createSuccessAuthentication(principalToR
71
              return successAuthentication;
72
      }
73
74
      private String determineUsername(Authentication authentication) {
              return (authentication.getPrincipal() == null) ? "NONE_PROVIDED" : authenticati
75
76
      }
77
78
79
      protected Authentication createSuccessAuthentication(Object principal, Authentication as
80
                      UserDetails user) {
81
              PhoneCaptchaAuthenticationToken result = PhoneCaptchaAuthenticationToken.authen
82
                               authentication.getCredentials(), this.authoritiesMapper.mapAuth
```



```
85
               return result;
86
      }
87
88
89
90
      public UserCache getUserCache() {
91
               return this.userCache;
92
      }
93
      public boolean isForcePrincipalAsString() {
94
95
               return this.forcePrincipalAsString;
96
      }
97
98
      public boolean isHideUserNotFoundExceptions() {
99
               return this.hideUserNotFoundExceptions;
100
      }
101
102
103
      protected UserDetails retrieveUser(String username, PhoneCaptchaAuthenticationToken aut
                       throws AuthenticationException{
104
105
               try {
106
                       UserDetails loadedUser = this.getUserDetailsService().loadUserByUsernam
                       if (loadedUser == null) {
107
108
                               throw new InternalAuthenticationServiceException(
                                                "UserDetailsService returned null, which is an
109
110
                       }
111
                       return loadedUser;
               }
112
               catch (UsernameNotFoundException ex) {
113
114
                       throw ex;
               }
115
116
               catch (InternalAuthenticationServiceException ex) {
                       throw ex;
117
118
119
               catch (Exception ex) {
                       throw new InternalAuthenticationServiceException(ex.getMessage(), ex);
120
121
               }
122
123
      }
124
125
126
      protected UserDetailsService getUserDetailsService() {
               return this.userDetailsService;
127
128
      }
129
130
131
      public void setUserCache(UserCache userCache) {
```



```
134
135
      @Override
      public boolean supports(Class<?> authentication) {
136
              return (PhoneCaptchaAuthenticationToken.class.isAssignableFrom(authentication))
137
      }
138
139
      protected UserDetailsChecker getPreAuthenticationChecks() {
140
141
              return this.preAuthenticationChecks;
142
      }
143
144
       * Sets the policy will be used to verify the status of the loaded
145
146
       * <tt>UserDetails</tt> <em>before</em> validation of the credentials takes place.
147
       * @param preAuthenticationChecks strategy to be invoked prior to authentication.
       */
148
      public void setPreAuthenticationChecks(UserDetailsChecker preAuthenticationChecks) {
149
150
              this.preAuthenticationChecks = preAuthenticationChecks;
151
      }
152
      protected UserDetailsChecker getPostAuthenticationChecks() {
153
              return this.postAuthenticationChecks;
154
155
      }
156
157
      public void setPostAuthenticationChecks(UserDetailsChecker postAuthenticationChecks) {
158
              this.postAuthenticationChecks = postAuthenticationChecks;
159
      }
160
      public void setAuthoritiesMapper(GrantedAuthoritiesMapper authoritiesMapper) {
161
162
              this.authoritiesMapper = authoritiesMapper;
163
      }
164
165
      private class DefaultPreAuthenticationChecks implements UserDetailsChecker {
166
167
168
              @Override
              public void check(UserDetails user) {
169
                       if (!user.isAccountNonLocked()) {
170
                               PhoneCaptchaAuthenticationProvider.this.logger
171
                                                .debug("Failed to authenticate since user accou
172
173
                               throw new LockedException(PhoneCaptchaAuthenticationProvider.th
174
                                               .getMessage("AbstractUserDetailsAuthenticationP
175
                       }
                       if (!user.isEnabled()) {
176
                               PhoneCaptchaAuthenticationProvider.this.logger
177
178
                                                .debug("Failed to authenticate since user accou
179
                               throw new DisabledException(PhoneCaptchaAuthenticationProvider.
180
                                                .getMessage("AbstractUserDetailsAuthenticationP
```



```
183
                               PhoneCaptchaAuthenticationProvider.this.logger
                                                .debug("Failed to authenticate since user accou
184
                               throw new AccountExpiredException(PhoneCaptchaAuthenticationPro
185
                                                .getMessage("AbstractUserDetailsAuthenticationP
186
187
                       }
188
              }
189
190
      }
191
      private class DefaultPostAuthenticationChecks implements UserDetailsChecker {
192
193
194
              @Override
195
              public void check(UserDetails user) {
                       if (!user.isCredentialsNonExpired()) {
196
                               logger.debug("Failed to authenticate since user account credent
197
198
                               throw new CredentialsExpiredException(PhoneCaptchaAuthenticatio
199
                                                .getMessage("PhoneCaptchaAuthenticationProvider
200
                                                                "User credentials have expired"
201
                       }
              }
202
203
204
      }
205
206 }
```

UserAuthenticationFilter

自定义 UserAuthenticationFilter 继承 UserAuthenticationProcessingFilter , 与 UsernamePasswordAuthenticationFilter 类似

```
■ java

public class UserAuthenticationFilter extends UserAuthenticationProcessingFilter {

public static final String SPRING_SECURITY_FORM_USERNAME_KEY = "username";

public static final String SPRING_SECURITY_FORM_PASSWORD_KEY = "password";

public static final String SPRING_SECURITY_FORM_CODE_KEY = "code";
```



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```
private String passwordParameter = SPRING_SECURITY_FORM_PASSWORD_KEY;
12
      private final String codeParameter = SPRING_SECURITY_FORM_CODE_KEY;
13
14
15
      private boolean postOnly = true;
16
17
      private static final AntPathRequestMatcher DEFAULT_ANT_PATH_REQUEST_MATCHER = new AntPa
18
                      "POST");
19
     public UserAuthenticationFilter() {
20
21
              super(DEFAULT ANT PATH REQUEST MATCHER);
22
      }
23
24
      public UserAuthenticationFilter(AuthenticationManager authenticationManager) {
              super(DEFAULT_ANT_PATH_REQUEST_MATCHER, authenticationManager);
25
26
      }
27
28
      @Override
29
      public Authentication attemptAuthentication(HttpServletRequest request, HttpServletRespo
                      throws AuthenticationException {
30
              if (this.postOnly && !request.getMethod().equals("POST")) {
31
32
                      throw new AuthenticationServiceException("Authentication method not sup
33
34
              String username = obtainUsername(request);
              username = (username != null) ? username.trim() : "";
35
              String password = obtainPassword(request);
36
37
              if(StringUtils.hasText(password)){
                      password = (password != null) ? password : "";
38
                      UsernamePasswordAuthenticationToken authReguest = UsernamePasswordAuthe
39
40
                                      password);
                      // Allow subclasses to set the "details" property
41
                      setDetails(request, authRequest);
42
                      return this.getAuthenticationManager().authenticate(authRequest);
43
44
              }else {
45
                      String code = obtainCode(request);
                      assert code != null;
46
                      if (!code.equals("000000")) {
47
                              throw new UsernameNotFoundException("验证码错误!");
48
49
                      }
50
                      PhoneCaptchaAuthenticationToken authRequest = PhoneCaptchaAuthenticatio
                      // Allow subclasses to set the "details" property
51
52
                      this.setDetails(request, authRequest);
                      return this.getAuthenticationManager().authenticate(authRequest);
53
54
              }
55
56
      }
57
```



```
return request.getParameter(this.passwordParameter);
60
61
      }
62
     @Nullable
63
      protected String obtainUsername(HttpServletRequest request) {
64
65
              return request.getParameter(this.usernameParameter);
66
      }
67
68
      @Nullable
      protected String obtainCode(HttpServletRequest request) {
69
70
              return request.getParameter(this.codeParameter);
71
      }
72
      protected void setDetails(HttpServletRequest request, UsernamePasswordAuthenticationToke
73
              authRequest.setDetails(this.authenticationDetailsSource.buildDetails(request));
74
75
      }
76
77
      protected void setDetails(HttpServletRequest request, PhoneCaptchaAuthenticationToken au
              authRequest.setDetails(this.authenticationDetailsSource.buildDetails(request));
78
79
      }
80
81
      public void setPasswordParameter(String passwordParameter) {
82
              this.passwordParameter = passwordParameter;
83
84
      public void setPostOnly(boolean postOnly) {
85
86
              this.postOnly = postOnly;
87
      }
88
      public final String getUsernameParameter() {
89
90
              return this.usernameParameter;
91
      }
92
93 }
```

以上都扩展好了

UserAuthenticationProcessingFilter

UserAuthenticationFilter

PhoneCaptchaAuthenticationToken

PhoneCaptchaAuthenticationProvider



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在 AbstractAuthenticationProcessingFilter 的找到了一个地方被

AbstractAuthenticationFilterConfigurer

```
public abstract class AbstractAuthenticationFilterConfigurer<B extends HttpSecurityBuilder<B>, T
2
            extends AbstractHttpConfigurer<T, B> {
3
        @Override
        public void configure(B http) throws Exception {
4
           PortMapper portMapper = http.getSharedObject(PortMapper.class);
5
            if (portMapper != null) {
6
7
                this.authenticationEntryPoint.setPortMapper(portMapper);
Ω
            }
            RequestCache requestCache = http.getSharedObject(RequestCache.class);
9
            if (requestCache != null) {
10
                this.defaultSuccessHandler.setRequestCache(requestCache);
11
12
            this.authFilter.setAuthenticationManager(http.getSharedObject(AuthenticationManager.clas
13
            this.authFilter.setAuthenticationSuccessHandler(this.successHandler);
14
            this.authFilter.setAuthenticationFailureHandler(this.failureHandler);
15
            if (this.authenticationDetailsSource != null) {
16
                this.authFilter.setAuthenticationDetailsSource(this.authenticationDetailsSource);
18
            }
19
            SessionAuthenticationStrategy sessionAuthenticationStrategy = http
20
                    .getSharedObject(SessionAuthenticationStrategy.class);
            if (sessionAuthenticationStrategy != null) {
21
                this.authFilter.setSessionAuthenticationStrategy(sessionAuthenticationStrategy);
22
23
            RememberMeServices rememberMeServices = http.getSharedObject(RememberMeServices.class);
24
            if (rememberMeServices != null) {
25
26
                this.authFilter.setRememberMeServices(rememberMeServices);
27
            }
28
            SecurityContextConfigurer securityContextConfigurer = http.getConfigurer(SecurityContext
            if (securityContextConfigurer != null && securityContextConfigurer.isRequireExplicitSave
29
                SecurityContextRepository securityContextRepository = securityContextConfigurer
30
31
                        .getSecurityContextRepository();
32
                this.authFilter.setSecurityContextRepository(securityContextRepository);
33
            this.authFilter.setSecurityContextHolderStrategy(getSecurityContextHolderStrategy());
34
            F filter = postProcess(this.authFilter);
35
           http.addFilter(filter);
36
37
        }
38 }
```



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在里面就看到 SessionAuthenticationStrategy 、 SecurityContextRepository 初始化与

AbstractAuthenticationProcessingFilter 中为 UsernamePasswordAuthenticationFilter 时的一致,

那么 UserAuthenticationProcessingFilter 中的 SessionAuthenticationStrategy 、

SecurityContextRepository 初始化也用这样的方式进行注入吧。

DefaultSecurityConfig 中添加到 SecurityFilterChain

~	java 复制代码
1	@EnableWebSecurity
2	<pre>@Configuration(proxyBeanMethods = false)</pre>
3	<pre>public class DefaultSecurityConfig {</pre>
4	
5	
6	@Autowired
7	<pre>private PhoneCaptchaAuthenticationProvider phoneCaptchaAuthenticationProvider;</pre>
8	
9	
10	
11	// 过滤器链
12	@Bean
13	<pre>public SecurityFilterChain defaultSecurityFilterChain(HttpSecurity http) throws Excepti</pre>
14	<pre>UserAuthenticationFilter userAuthenticationFilter = new UserAuthenticationFilte</pre>
15	http
16	.addFilterAt(userAuthenticationFilter, UsernamePasswordAuthenti
17 18	.authorizeHttpRequests(authorize ->//® 配置鉴权的 authorize
19	.requestMatchers(
20	"/assets/**",
21	"/webjars/**",
22	AuthorizationSe
23	"/oauth2/**",
24	"/oauth2/token"
25).permitAll() //② 忽略鉴权的url
26	<pre>.anyRequest().authenticated()//</pre>
27)
28	<pre>.csrf(AbstractHttpConfigurer::disable)</pre>
29	<pre>.authenticationProvider(phoneCaptchaAuthenticationProvider)</pre>
30	.formLogin(login->
31	login.loginPage(AuthorizationServerConfiguratio
32	<pre>.defaultSuccessUrl("/test") //</pre>
33)
34	<pre>.oauth2Login(oauth2Login-></pre>
35	oauth2Login.loginPage(AuthorizationServerConfig

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```
DefaultSecurityFilterChain build = http.build();

userAuthenticationFilter.setAuthenticationManager(http.getSharedObject(Authenti
userAuthenticationFilter.setSessionAuthenticationStrategy(http.getSharedObject(
SecurityContextRepository securityContextRepository = new DelegatingSecurityCont
new RequestAttributeSecurityContextRepository(), new HttpSessio
userAuthenticationFilter.setSecurityContextRepository(securityContextRepository
return build;
}

return build;
```

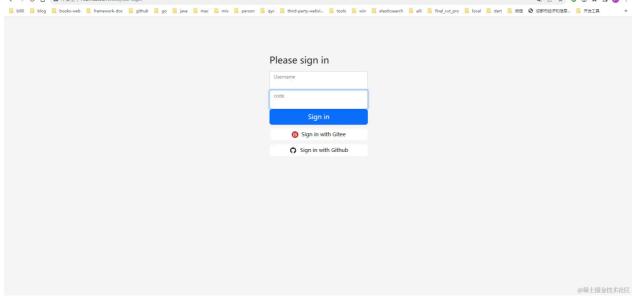
sso-login.html

```
html
                                                                           ₹ij
    <!DOCTYPE html>
    <html lang="en" xmlns="http://www.w3.org/1999/xhtml" xmlns:th="https://www.thymeleaf.org":</pre>
2
3
4
       <meta charset="utf-8" />
       <meta name="viewport" content="width=device-width, initial-scale=1">
5
6
       <title>Spring Authorization Server sample</title>
7
       <link rel="stylesheet" href="/webjars/bootstrap/css/bootstrap.css" th:href="@{/webjars/</pre>
       <link rel="stylesheet" href="/assets/css/signin.css" th:href="@{/assets/css/signin.css"</pre>
8
9
    </head>
10
   <body>
    <div class="container">
11
12
       <form class="form-signin w-100 m-auto" method="post" th:action="@{/sso-login}">
           <div th:if="${param.error}" class="alert alert-danger" role="alert">
13
14
               Invalid username or password.
15
           </div>
           <div th:if="${param.logout}" class="alert alert-success" role="alert">
16
               You have been logged out.
17
           </div>
18
           <h1 class="h3 mb-3 fw-normal">Please sign in</h1>
19
20
           <div class="form-floating">
               <input type="text" id="username" name="username" class="form-control" required</pre>
21
               <label for="username">Username</label>
22
23
           </div>
           <div class="form-floating">
24
               <input tvpe="text" id="code" name="code" class="form-control" required>
```



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```
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 28
               <div>
 29
                   <button class="w-100 btn btn-lg btn-primary btn-block" type="submit">Sign in</l
                   <a class="w-100 btn btn-light btn-block bg-white" href="/oauth2/authorization/
 30
                        <img src="/assets/img/gitee.png" th:src="@{/assets/img/gitee.png}" width=""</pre>
 31
                        Sign in with Gitee
 32
 33
                   </a>
                   <a class="w-100 btn btn-light btn-block bg-white" href="/oauth2/authorization/
 34
 35
                        <img src="/assets/img/github.png" th:src="@{/assets/img/github.png}" width:</pre>
                        Sign in with Github
 36
 37
                   </a>
              </div>
 39
         </form>
 40 </div>
 41 </body>
 42 </html>
← → C ☆ ▲ 不安全 | 192.168.56.1:9000/sso-login
                                                                                                📙 billii 📗 blog 😩 books-web 📳 framework-doc 📳 github 🔩 go 👢 java 👢 mac 📗 mix 👢 mrix 👢 person 👢 gyc 📳 third-party-websi... 📋 tools 📗 win 📳 elasticsearch 📋 alii 📑 final_cut_pro 🔠 local 📳 dart 🐫 微微 🔇 成態市股流和信息... 📜 开发工具
```





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用spring-authorization-server的目的一定是要非常明确,就是为了不再去重复造轮子完成oauth2的认证流程,前端代码都不用写的,spring-boot-starter-oauth2-client 里面都去做了拿code去换token的整套流程,所以一定好好理解为什么要用spring-authorization-server的目的,别跑偏了。

如果出现以下异常

```
₹ij
       java
     java.lang.IllegalArgumentException: The class with com.watermelon.authorization.filter.Phc
     and name of com.watermelon.authorization.filter.PhoneCaptchaAuthenticationToken is not in
  3 If you believe this class is safe to deserialize, please provide an explicit mapping using
     If the serialization is only done by a trusted source, you can also enable default typing
     See https://github.com/spring-projects/spring-security/issues/4370 for details \
       at org.springframework.security.oauth2.server.authorization.JdbcOAuth2AuthorizationServ
我们将 OAuth2AuthorizationService 实现替换为redis存储即可
                                                                          Κİ
       java
     @Component
     public class RedisOAuth2AuthorizationServiceImpl implements OAuth2AuthorizationService {
  4
  5
        private final static String AUTHORIZATION_TYPE = "authorization_type";
  7
        private final static String OAUTH2_PARAMETER_NAME_ID = "id";
  9
        private final static Long TIMEOUT = 600L;
 10
 11
        @Resource
 12
 13
        private RedisTemplate<String, Object> redisTemplate;
 14
        @Override
 15
 16
        public void save(OAuth2Authorization authorization) {
            Assert.notNull(authorization, "authorization cannot be null");
 17
            redisTemplate.setValueSerializer(RedisSerializer.java());
 18
            redisTemplate.opsForValue().set(buildAuthorizationKey(OAUTH2 PARAMETER NAME ID, aut
 19
 20
            if (isState(authorization)) {
 21
                String state = authorization.getAttribute(OAuth2ParameterNames.STATE);
 22
                String isStateKey = buildAuthorizationKey(OAuth2ParameterNames.STATE, state);
```

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```
25
26
          if (isAuthorizationCode(authorization)) {
               OAuth2Authorization.Token<OAuth2AuthorizationCode> authorizationCode =
27
                       authorization.getToken(OAuth2AuthorizationCode.class);
28
               String tokenValue = authorizationCode.getToken().getTokenValue();
29
               String isAuthorizationCodeKey = buildAuthorizationKey(OAuth2ParameterNames.CODI
30
               Instant expiresAt = authorizationCode.getToken().getExpiresAt();//过期时间
31
32
               Instant issuedAt = authorizationCode.getToken().getIssuedAt();//发放token的时间
               Date expiresAtDate = Date.from(expiresAt);
33
               Date issuedAtDate = Date.from(issuedAt);
34
               redisTemplate.setValueSerializer(RedisSerializer.java());
35
               redisTemplate.opsForValue().set(isAuthorizationCodeKey, authorization, TIMEOUT]
36
37
          }
          if (isAccessToken(authorization)) {
38
               OAuth2Authorization.Token<OAuth2AccessToken> accessToken =
39
                       authorization.getToken(OAuth2AccessToken.class);
41
               String tokenValue = accessToken.getToken().getTokenValue();
               String isAccessTokenKey = buildAuthorizationKey(OAuth2ParameterNames.ACCESS TOk
42
43
               Instant expiresAt = accessToken.getToken().getExpiresAt();//过期时间
               Instant issuedAt = accessToken.getToken().getIssuedAt();//发放token的时间
44
               Date expiresAtDate = Date.from(expiresAt);
45
46
               Date issuedAtDate = Date.from(issuedAt);
               redisTemplate.setValueSerializer(RedisSerializer.java());
47
               redisTemplate.opsForValue().set(isAccessTokenKey, authorization, TIMEOUT, Timel
48
          }
49
          if (isRefreshToken(authorization)) {
50
               OAuth2Authorization.Token<OAuth2RefreshToken> refreshToken =
51
                       authorization.getToken(OAuth2RefreshToken.class);
52
               String tokenValue = refreshToken.getToken().getTokenValue();
53
               String isRefreshTokenKey = buildAuthorizationKey(OAuth2ParameterNames.REFRESH
54
               Instant expiresAt = refreshToken.getToken().getExpiresAt();//过期时间
55
               Instant issuedAt = refreshToken.getToken().getIssuedAt();//发放token的时间
56
               Date expiresAtDate = Date.from(expiresAt);
57
58
               Date issuedAtDate = Date.from(issuedAt);
59
               redisTemplate.setValueSerializer(RedisSerializer.java());
               redisTemplate.opsForValue().set(isRefreshTokenKey, authorization, TIMEOUT, Time
60
61
          }
62
           if (isIdToken(authorization)) {
63
               OAuth2Authorization.Token<OidcIdToken> idToken =
64
                       authorization.getToken(OidcIdToken.class);
65
66
               String tokenValue = idToken.getToken().getTokenValue();
               String isIdTokenKey = buildAuthorizationKey(OidcParameterNames.ID TOKEN, token\
67
               Instant expiresAt = idToken.getToken().getExpiresAt();//过期时间
68
69
               Instant issuedAt = idToken.getToken().getIssuedAt();//发放token的时间
70
               Date expiresAtDate = Date.from(expiresAt);
71
               Date issuedAtDate = Date.from(issuedAt);
```



```
74
75
           if (isDeviceCode(authorization)) {
               OAuth2Authorization.Token<OAuth2DeviceCode> deviceCode =
76
77
                       authorization.getToken(OAuth2DeviceCode.class);
78
79
               String tokenValue = deviceCode.getToken().getTokenValue();
               String isDeviceCodeKey = buildAuthorizationKey(OAuth2ParameterNames.DEVICE_CODI
20
81
               Instant expiresAt = deviceCode.getToken().getExpiresAt();//过期时间
               Instant issuedAt = deviceCode.getToken().getIssuedAt();//发放token的时间
82
               Date expiresAtDate = Date.from(expiresAt);
83
               Date issuedAtDate = Date.from(issuedAt);
84
               redisTemplate.setValueSerializer(RedisSerializer.java());
85
               redisTemplate.opsForValue().set(isDeviceCodeKey, authorization, TIMEOUT, TimeUr
86
87
           if (isUserCode(authorization)) {
88
               OAuth2Authorization.Token<OAuth2UserCode> userCode =
89
90
                       authorization.getToken(OAuth2UserCode.class);
91
               String tokenValue = userCode.getToken().getTokenValue();
               String isUserCodeKey = buildAuthorizationKey(OAuth2ParameterNames.USER_CODE, to
92
               Instant expiresAt = userCode.getToken().getExpiresAt();//过期时间
93
               Instant issuedAt = userCode.getToken().getIssuedAt();//发放token的时间
95
               Date expiresAtDate = Date.from(expiresAt);
               Date issuedAtDate = Date.from(issuedAt);
96
97
               redisTemplate.setValueSerializer(RedisSerializer.java());
               redisTemplate.opsForValue().set(isUserCodeKey, authorization, TIMEOUT, TimeUnit
98
99
           }
100
       }
101
       @Override
102
       public void remove(OAuth2Authorization authorization) {
103
           List<String> keys = new ArrayList<>();
104
           String idKey = buildAuthorizationKey(OAUTH2 PARAMETER NAME ID, authorization.getId
105
           keys.add(idKey);
106
107
           if (isState(authorization)) {
               String state = authorization.getAttribute(OAuth2ParameterNames.STATE);
108
               String isStateKey = buildAuthorizationKey(OAuth2ParameterNames.STATE, state);
109
               keys.add(isStateKey);
110
111
           }
           if (isAuthorizationCode(authorization)) {
112
               OAuth2Authorization.Token<OAuth2AuthorizationCode> authorizationCode =
113
                       authorization.getToken(OAuth2AuthorizationCode.class);
114
115
               String tokenValue = authorizationCode.getToken().getTokenValue();
               String isAuthorizationCodeKey = buildAuthorizationKey(OAuth2ParameterNames.CODI
116
               keys.add(isAuthorizationCodeKey);
117
118
           if (isAccessToken(authorization)) {
119
120
               OAuth2Authorization.Token<OAuth2AccessToken> accessToken =
```



```
123
               String isAccessTokenKey = buildAuthorizationKey(OAuth2ParameterNames.ACCESS_TOH
124
               keys.add(isAccessTokenKey);
125
           }
           if (isRefreshToken(authorization)) {
126
               OAuth2Authorization.Token<OAuth2RefreshToken> refreshToken =
127
                        authorization.getToken(OAuth2RefreshToken.class);
128
129
               String tokenValue = refreshToken.getToken().getTokenValue();
130
               String isRefreshTokenKey = buildAuthorizationKey(OAuth2ParameterNames.REFRESH_
               keys.add(isRefreshTokenKey);
131
           }
132
           if (isIdToken(authorization)) {
133
               OAuth2Authorization.Token<OidcIdToken> idToken =
134
135
                        authorization.getToken(OidcIdToken.class);
136
               String tokenValue = idToken.getToken().getTokenValue();
               String isIdTokenKey = buildAuthorizationKey(OidcParameterNames.ID_TOKEN, token\
137
               keys.add(isIdTokenKey);
139
           }
           if (isDeviceCode(authorization)) {
140
               OAuth2Authorization.Token<OAuth2DeviceCode> deviceCode =
141
                        authorization.getToken(OAuth2DeviceCode.class);
142
143
144
               String tokenValue = deviceCode.getToken().getTokenValue();
               String isDeviceCodeKey = buildAuthorizationKey(OAuth2ParameterNames.DEVICE_CODI
145
               keys.add(isDeviceCodeKey);
146
           }
147
           if (isUserCode(authorization)) {
148
149
               OAuth2Authorization.Token<OAuth2UserCode> userCode =
                        authorization.getToken(OAuth2UserCode.class);
150
151
               String tokenValue = userCode.getToken().getTokenValue();
               String isUserCodeKey = buildAuthorizationKey(OAuth2ParameterNames.USER_CODE, to
152
               keys.add(isUserCodeKey);
153
154
           }
           redisTemplate.delete(keys);
155
156
       }
157
158
       @Override
       public OAuth2Authorization findById(String id) {
159
           return (OAuth2Authorization) Optional.ofNullable(redisTemplate.opsForValue().get(bu
160
161
       }
162
163
       @Override
164
       public OAuth2Authorization findByToken(String token, OAuth2TokenType tokenType) {
           Assert.hasText(token, "token cannot be empty");
165
           Assert.notNull(tokenType, "tokenType cannot be empty");
166
167
           redisTemplate.setValueSerializer(RedisSerializer.java());
           return (OAuth2Authorization) redisTemplate.opsForValue().get(buildAuthorizationKey
168
169
       }
```



```
172
       private boolean isState(OAuth2Authorization authorization) {
173
           return Objects.nonNull(authorization.getAttribute(OAuth2ParameterNames.STATE));
174
175
176
177
       private boolean isAuthorizationCode(OAuth2Authorization authorization) {
178
           OAuth2Authorization.Token<OAuth2AuthorizationCode> authorizationCode =
179
                   authorization.getToken(OAuth2AuthorizationCode.class);
           return Objects.nonNull(authorizationCode);
180
181
       }
182
183
184
       private boolean isAccessToken(OAuth2Authorization authorization) {
185
           OAuth2Authorization.Token<OAuth2AccessToken> accessToken =
186
                   authorization.getToken(OAuth2AccessToken.class);
           return Objects.nonNull(accessToken) && Objects.nonNull(accessToken.getToken().getTo
187
188
       }
189
190
       private boolean isRefreshToken(OAuth2Authorization authorization) {
           OAuth2Authorization.Token<OAuth2RefreshToken> refreshToken =
191
                   authorization.getToken(OAuth2RefreshToken.class);
192
193
           return Objects.nonNull(refreshToken) && Objects.nonNull(refreshToken.getToken().get
194
       }
195
196
       private boolean isIdToken(OAuth2Authorization authorization) {
           OAuth2Authorization.Token<OidcIdToken> idToken =
197
198
                   authorization.getToken(OidcIdToken.class);
           return Objects.nonNull(idToken) && Objects.nonNull(idToken.getToken().getTokenValue
199
200
       }
201
       private boolean isDeviceCode(OAuth2Authorization authorization) {
202
           OAuth2Authorization.Token<OAuth2DeviceCode> deviceCode =
203
                   authorization.getToken(OAuth2DeviceCode.class);
204
           return Objects.nonNull(deviceCode) && Objects.nonNull(deviceCode.getToken().getToke
205
206
207
       private boolean isUserCode(OAuth2Authorization authorization) {
208
           OAuth2Authorization.Token<OAuth2UserCode> userCode =
209
                   authorization.getToken(OAuth2UserCode.class);
210
211
           return Objects.nonNull(userCode) && Objects.nonNull(userCode.getToken().getTokenVal
212
       }
213
214
215
216
        * redis key 构建
217
218
        * @param type 授权类型
```



```
221 */
222 private String buildAuthorizationKey(String type, String value) {
223    return AUTHORIZATION_TYPE.concat("::").concat(type).concat("::").concat(value);
224 }
225 }
```

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