





Spring Authorization Server (6) 授权服 务器 授权类型扩展

爱吃西瓜的胖娃 2023-09-19 ◎ 424 ⑤ 阅读5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
```

授权码模式 -->authorization code

Spring Authorization Server 授权服务常见的授权模式

```
密码模式 -->password
客户端模式 -->client credentials
Spring Authorization Server 内置的 授权模式 都定义再 AuthorizationGrantType 里面了
      java
                                                                      ₹/
     public final class AuthorizationGrantType implements Serializable {
  2
       private static final long serialVersionUID = SpringSecurityCoreVersion.SERIAL_VERSION_U.
  3
       public static final AuthorizationGrantType AUTHORIZATION_CODE = new AuthorizationGrantTy
       public static final AuthorizationGrantType REFRESH TOKEN = new AuthorizationGrantType(")
       public static final AuthorizationGrantType CLIENT CREDENTIALS = new AuthorizationGrantTy
 10
```

@Deprecated



```
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Q
```

如果有一些特定的场景,内置的授权模式不支持,那我们如何去扩展呢?

我也不知道怎么去扩展,那我们就看看 授权码模式 是怎么玩的,然后参考它的去做扩展。

还是先从入口看,前面我们也讲到了,/oauth2/token 对于的 OAuth2TokenEndpointFilter 核 心代码也就是之前提到的2行代码



那我现在理解搞定这 OAuth2AuthorizationCodeAuthenticationConverter 、

OAuth2AuthorizationCodeAuthenticationToken 、 OAuth2AuthorizationCodeAuthenticationProvider 3个就行了。

手机号+短信验证码模式扩展



SmsAuthenticationToken

```
₹/
     java
   public class SmsAuthenticationToken extends AbstractAuthenticationToken {
2
      /**
      * 认证类型
4
       */
5
      private AuthorizationGrantType authorizationGrantType;
      /**
       * 用户名
       */
9
10
      private Authentication clientPrincipal;
      /**
11
       * 手机号
12
13
       */
14
      private String phone;
15
16
       * 短信验证码
       */
17
      private String code;
18
      /**
19
20
       * scopes
       */
21
      private Set<String> scopes;
22
      /**
23
       * 扩展的参数
       */
25
      private Map<String, Object> additionalParameters;
26
27
      public SmsAuthenticationToken(
28
29
              AuthorizationGrantType authorizationGrantType,
30
              Authentication clientPrincipal,
31
              Set<String> scopes,
              String phone,
32
              String code,
33
              Map<String, Object> additionalParameters) {
34
35
          super(Collections.emptyList());
36
          Assert.notNull(clientPrincipal, "clientPrincipal cannot be null");
37
          this.scopes = Collections.unmodifiableSet(
```



```
42
          this.phone = phone;
43
          this.code = code;
44
          this.clientPrincipal = clientPrincipal;
45
46
          this.additionalParameters = Collections.unmodifiableMap(
                  additionalParameters != null ?
47
                          new HashMap<>(additionalParameters) :
48
49
                          Collections.emptyMap());
50
          this.authorizationGrantType = authorizationGrantType;
51
      }
52
53
      /**
       * 扩展模式一般不需要密码
       */
55
56
      @Override
      public Object getCredentials() {
57
          return null;
58
59
      }
60
61
62
       * 获取用户名
       */
63
64
      @Override
65
      public Object getPrincipal() {
          return this.clientPrincipal;
66
67
      }
68
69
70
      public String getPhone() {
          return phone;
71
72
      }
73
74
75
      public String getCode() {
          return code;
76
77
      }
78
79
      * 获取请求的scopes
       */
81
      public Set<String> getScopes() {
82
          return this.scopes;
83
84
      }
85
      /**
86
87
       * 获取请求中的 grant_type
```



SmsAuthenticationConverter

```
Κİ
     java
   public final class SmsAuthenticationConverter implements AuthenticationConverter {
2
3
       @Nullable
4
       @Override
5
       public Authentication convert(HttpServletRequest request) {
           // grant_type (REQUIRED)
6
           String grantType = request.getParameter(OAuth2ParameterNames.GRANT TYPE);
7
           if (!AuthorizationServerConfigurationConsent.GRANT_TYPE_SMS_CODE.equals(grantType))
8
9
               return null;
           }
10
           Authentication clientPrincipal = SecurityContextHolder.getContext().getAuthenticat:
11
           //OAuth2AuthorizationUtils 是copy 源码中存在的
12
13
           MultiValueMap<String, String> parameters = OAuth2AuthorizationUtils.getParameters(
14
15
           // scope (OPTIONAL)
16
17
           Set<String> scopes = null;
18
           String scope = parameters.getFirst(OAuth2ParameterNames.SCOPE);
19
           if (StringUtils.hasText(scope) &&
20
                   parameters.get(OAuth2ParameterNames.SCOPE).size() != 1) {
               OAuth2AuthorizationUtils.throwError(OAuth2ErrorCodes.INVALID_REQUEST, OAuth2Par
21
22
23
           if (StringUtils.hasText(scope)) {
24
               scopes = new HashSet<>(
25
                       Arrays.asList(StringUtils.delimitedListToStringArray(scope, " ")));
```



```
// phone (REQUIRED) 手机号
29
          String phone = parameters.getFirst(AuthorizationServerConfigurationConsent.OAUTH2_I
30
          if (!StringUtils.hasText(phone) ||
31
                  32
33
              OAuth2AuthorizationUtils.throwError(
                      OAuth2ErrorCodes.INVALID_REQUEST,
34
                      "OAuth 2.0 Parameter: " + AuthorizationServerConfigurationConsent.OAUT
35
36
          }
37
38
          // sms_code (REQUIRED) 验证码必填
39
          String smsCode = parameters.getFirst(AuthorizationServerConfigurationConsent.OAUTH)
40
          if (!StringUtils.hasText(smsCode) ||
42
                  parameters.get(AuthorizationServerConfigurationConsent.OAUTH2_PARAMETER_NAN
43
              OAuth2AuthorizationUtils.throwError(
                      OAuth2ErrorCodes.INVALID_REQUEST,
44
                      "OAuth 2.0 Parameter: " + AuthorizationServerConfigurationConsent.OAUTh
45
                      null);
46
47
          }
48
49
          //扩展参数
          Map<String, Object> additionalParameters = new HashMap<>();
50
          parameters.forEach((key, value) -> {
51
              if (!key.equals(OAuth2ParameterNames.GRANT TYPE)) {
52
                  additionalParameters.put(key, value.get(∅));
53
54
              }
          });
55
56
57
          return new SmsAuthenticationToken(new AuthorizationGrantType(AuthorizationServerCom
                  clientPrincipal,
58
59
                  scopes,
60
                  phone,
61
                  smsCode,
                  additionalParameters);
63
      }
64 }
```

SmsAuthenticationProvider



```
bnotte ituat etass smearchemetegetouklostael timbtemenes archemetegetouklostael (
3
                      private static final String ERROR_URI = "https://datatracker.ietf.org/doc/html/rfc6749;
4
 5
                      private OAuth2AuthorizationService authorizationService;
7
8
                      private OAuth2TokenGenerator<? extends OAuth2Token> tokenGenerator;
9
                      private AuthenticationManager authenticationManager;//暂时没有用到 如果额外加一个 短信验证
10
11
                      private static final OAuth2TokenType ID_TOKEN_TOKEN_TYPE =
12
13
                                                new OAuth2TokenType(OidcParameterNames.ID TOKEN);
14
15
                      @Override
16
17
                      public Authentication authenticate(Authentication authentication) throws Authentication
18
19
                                   SmsAuthenticationToken smsAuthenticationToken = (SmsAuthenticationToken) authenticationToken
20
                                   OAuth2ClientAuthenticationToken clientPrincipal =
21
22
                                                             OAuth 2 Authorization Utils.get Authenticated Client Else Throw Invalid Client (sms Authorization Utils) and the control of 
23
24
                                   RegisteredClient registeredClient = clientPrincipal.getRegisteredClient();
                                   if (log.isTraceEnabled()) {
25
26
                                                log.trace("Retrieved registered client");
27
                                   if (registeredClient == null) {
28
                                                throw new OAuth2AuthenticationException("client id not exist");
29
30
                                   }
31
                                   try {
                                                //todo 验证码验证逻辑
33
                                                //验证码
34
35
                                                String code = smsAuthenticationToken.getCode();
36
                                                if (!StringUtils.hasText(code)) {
                                                             throw new OAuth2AuthenticationException("验证码不能为空!");
37
38
                                                //todo 暂时先写000000 , 发送验证码的我们还没有写的
39
40
                                                if (!code.equals("000000")) {
                                                             throw new OAuth2AuthenticationException("验证码: 【" + code + "】已过期!");
41
42
                                                Authentication smsCodeValidAuthentication = smsAuthenticationToken;
43
                                                smsAuthenticationToken.setAuthenticated(true);
44
                                                // @formatter:off
45
                                                DefaultOAuth2TokenContext.Builder tokenContextBuilder = DefaultOAuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2TokenContextOuth2Token
46
47
                                                                           .registeredClient(registeredClient)
                                                                          .principal(smsCodeValidAuthentication)
48
```



```
52
                       .authorizationGrant(smsAuthenticationToken);
               // @formatter:on
53
54
               OAuth2Authorization.Builder authorizationBuilder = OAuth2Authorization
55
                       .withRegisteredClient(registeredClient)
56
                       .principalName(smsCodeValidAuthentication.getName())
                       .authorizationGrantType(smsAuthenticationToken.getAuthorizationGrantTyp
57
                       .authorizedScopes(smsAuthenticationToken.getScopes());
58
59
               // ---- Access token -----
60
               OAuth2TokenContext tokenContext = tokenContextBuilder.tokenType(OAuth2TokenType)
61
               OAuth2Token generatedAccessToken = this.tokenGenerator.generate(tokenContext);
62
               if (generatedAccessToken == null) {
63
                   OAuth2Error error = new OAuth2Error(OAuth2ErrorCodes.SERVER ERROR,
65
                           "The token generator failed to generate the access token.", ERROR_I
                   throw new OAuth2AuthenticationException(error);
66
67
               }
68
               if (log.isTraceEnabled()) {
69
70
                   log.trace("Generated access token");
71
               }
72
               OAuth2AccessToken accessToken = new OAuth2AccessToken(OAuth2AccessToken.TokenT)
73
74
                       generatedAccessToken.getTokenValue(), generatedAccessToken.getIssuedAt(
75
                       generatedAccessToken.getExpiresAt(), tokenContext.getAuthorizedScopes()
               if (generatedAccessToken instanceof ClaimAccessor) {
76
                   authorizationBuilder.token(accessToken, (metadata) ->
77
                                   metadata.put(OAuth2Authorization.Token.CLAIMS METADATA NAMI
78
                           .attribute(Principal.class.getName(), smsCodeValidAuthentication);
79
               } else {
                   authorizationBuilder.accessToken(accessToken);
81
82
               }
83
               // ---- Refresh token -----
84
               OAuth2RefreshToken refreshToken = null;
85
               if (registeredClient.getAuthorizationGrantTypes().contains(AuthorizationGrantTy
86
                       // Do not issue refresh token to public client
87
88
                       !clientPrincipal.getClientAuthenticationMethod().equals(ClientAuthentic
89
90
                   tokenContext = tokenContextBuilder.tokenType(OAuth2TokenType.REFRESH_TOKEN)
                   OAuth2Token generatedRefreshToken = this.tokenGenerator.generate(tokenConte
91
                   if (!(generatedRefreshToken instanceof OAuth2RefreshToken)) {
92
93
                       OAuth2Error error = new OAuth2Error(OAuth2ErrorCodes.SERVER ERROR,
94
                                "The token generator failed to generate the refresh token.", El
95
                       throw new OAuth2AuthenticationException(error);
96
                   }
97
```



```
101
102
                   refreshToken = (OAuth2RefreshToken) generatedRefreshToken;
103
                   authorizationBuilder.refreshToken(refreshToken);
104
               }
105
               // ---- ID token ----
106
               OidcIdToken idToken;
107
               if (smsAuthenticationToken.getScopes().contains(OidcScopes.OPENID)) {
108
109
110
                   // @formatter:off
111
                   tokenContext = tokenContextBuilder
                            .tokenType(ID_TOKEN_TOKEN_TYPE)
112
                            .authorization(authorizationBuilder.build()) // ID token custom
114
                            .build();
115
                   // @formatter:on
116
                   OAuth2Token generatedIdToken = this.tokenGenerator.generate(tokenContext);
                   if (!(generatedIdToken instanceof Jwt)) {
117
                        OAuth2Error error = new OAuth2Error(OAuth2ErrorCodes.SERVER ERROR,
118
119
                                "The token generator failed to generate the ID token.", ERROR_I
                       throw new OAuth2AuthenticationException(error);
120
121
                   }
122
                   if (log.isTraceEnabled()) {
123
124
                        log.trace("Generated id token");
125
                   }
126
                   idToken = new OidcIdToken(generatedIdToken.getTokenValue(), generatedIdToke
127
                            generatedIdToken.getExpiresAt(), ((Jwt) generatedIdToken).getClaims
128
                   authorizationBuilder.token(idToken, (metadata) ->
129
                           metadata.put(OAuth2Authorization.Token.CLAIMS_METADATA_NAME, idToke
130
131
               } else {
132
                   idToken = null;
133
               OAuth2Authorization authorization = authorizationBuilder.build();
134
               this.authorizationService.save(authorization);
135
136
137
               if (log.isTraceEnabled()) {
138
                   log.trace("Saved authorization");
139
               }
               Map<String, Object> additionalParameters = Collections.emptyMap();
140
               if (idToken != null) {
141
142
                   additionalParameters = new HashMap<>();
143
                   additionalParameters.put(OidcParameterNames.ID_TOKEN, idToken.getTokenValue
144
               if (log.isTraceEnabled()) {
145
                   log.trace("Authenticated token request");
146
```



Q

```
} catch (Exception e) {
150
151
152
               OAuth2Error error = new OAuth2Error(OAuth2ErrorCodes.SERVER_ERROR,
153
                       e.getMessage(), ERROR_URI);
154
155
               throw new OAuth2AuthenticationException(error);
156
           }
157
158
       }
159
       @Override
160
       public boolean supports(Class<?> authentication) {
           return SmsAuthenticationToken.class.isAssignableFrom(authentication);
161
162
163
       public void setTokenGenerator(OAuth2TokenGenerator<?> tokenGenerator) {
           Assert.notNull(tokenGenerator, "tokenGenerator cannot be null");
164
165
           this.tokenGenerator = tokenGenerator;
166
       public void setAuthenticationManager(AuthenticationManager authenticationManager) {
167
168
           Assert.notNull(authorizationService, "authenticationManager cannot be null");
           this.authenticationManager = authenticationManager;
169
170
171
       public void setAuthorizationService(OAuth2AuthorizationService authorizationService) {
           Assert.notNull(authorizationService, "authorizationService cannot be null");
172
173
           this.authorizationService = authorizationService;
174
175 }
```

OAuth2AuthorizationService authorizationService;

OAuth2TokenGenerator<? extends OAuth2Token> tokenGenerator;

AuthenticationManager authenticationManager; 以上3个属性,是在 HttpSecurity build 之后才能够从 HttpSecurity 中获取到,所以 SmsAuthenticationProvider 的注入就要在 HttpSecurity build 之后再添加到 SecurityFilterChain 中。

SmsAuthenticationProvider、SmsAuthenticationConverter 注入SecurityFilterChain中

在 AuthorizationServerConfig 的 SecurityFilterChain @Bean 中添加,因为你看官方给的demo中就是这里添加,再有一个原因就是 AuthorizationServerConfig 中的 SecurityFilterChain 就是 oauth2 的配置。



```
₹i†
     java
   @Configuration(proxyBeanMethods = false)
   public class AuthorizationServerConfig {
2
3
4
      private static final String CUSTOM_CONSENT_PAGE_URI = "/oauth2/consent";//这个是授权页
      @Bean
6
7
      @Order(Ordered.HIGHEST_PRECEDENCE)
      public SecurityFilterChain authorizationServerSecurityFilterChain(
8
9
               HttpSecurity http, RegisteredClientRepository registeredClientRepository,
10
               AuthorizationServerSettings authorizationServerSettings) throws Exception {
11
           OAuth2AuthorizationServerConfiguration.applyDefaultSecurity(http);
12
13
           DeviceClientAuthenticationConverter deviceClientAuthenticationConverter =
14
15
                   new DeviceClientAuthenticationConverter(
16
                           authorizationServerSettings.getDeviceAuthorizationEndpoint());
           DeviceClientAuthenticationProvider deviceClientAuthenticationProvider =
17
                   new DeviceClientAuthenticationProvider(registeredClientRepository);
18
19
           // @formatter:off
           http.getConfigurer(OAuth2AuthorizationServerConfigurer.class)
20
21
                   .deviceAuthorizationEndpoint(deviceAuthorizationEndpoint ->
                           deviceAuthorizationEndpoint.verificationUri("/activate")
22
23
                   )
                   .deviceVerificationEndpoint(deviceVerificationEndpoint ->
24
                           deviceVerificationEndpoint.consentPage(CUSTOM_CONSENT_PAGE_URI)
25
26
                   .clientAuthentication(clientAuthentication ->
27
                           clientAuthentication
28
                                   .authenticationConverter(deviceClientAuthenticationConverte
29
                                   .authenticationProvider(deviceClientAuthenticationProvider)
30
31
                   )
32
                   .authorizationEndpoint(authorizationEndpoint ->
                           authorizationEndpoint.consentPage(CUSTOM CONSENT PAGE URI))
33
                   .oidc(Customizer.withDefaults()); // Enable OpenID Connect 1.0
34
           // @formatter:on
35
36
37
           // @formatter:off
38
           http
39
                   .exceptionHandling(exceptions -> exceptions
                           .defaultAuthenticationEntryPointFor(
40
41
                                   new LoginUrlAuthenticationEntryPoint(AuthorizationServerCor
42
                                   new MediaTypeRequestMatcher(MediaType.TEXT HTML)
43
                           )
44
                   )
```



```
48
49
           //sms off
50
           SmsAuthenticationConverter smsAuthenticationConverter = new SmsAuthenticationConver
51
           SmsAuthenticationProvider smsAuthenticationProvider = new SmsAuthenticationProvider
52
           //sms on
           http.getConfigurer(OAuth2AuthorizationServerConfigurer.class)
53
                   .tokenEndpoint(tokenEndpoint->
54
55
                           tokenEndpoint.accessTokenRequestConverter(smsAuthenticationConverte
                                         .authenticationProvider(smsAuthenticationProvider)//选
56
57
                   );
58
59
           DefaultSecurityFilterChain build = http.build();
61
           this.initAuthenticationProviderFiled(http, smsAuthenticationProvider, smsCodeValid/
62
           return build;
63
64
65
66
       @Bean
       public OAuth2AuthorizationService authorizationService(JdbcTemplate jdbcTemplate,
67
68
                                                               RegisteredClientRepository regis
           return new Jdbc0Auth2AuthorizationService(jdbcTemplate, registeredClientRepository
69
70
       }
71
72
       @Bean
       public OAuth2AuthorizationConsentService authorizationConsentService(JdbcTemplate jdbc'
73
74
           return new JdbcOAuth2AuthorizationConsentService(jdbcTemplate, registeredClientRepo
75
       }
76
77
       @Bean
78
       public OAuth2TokenCustomizerJwtEncodingContext> idTokenCustomizer() {
79
           return new FederatedIdentityIdTokenCustomizer();
80
       }
81
82
83
       @Bean
84
       public AuthorizationServerSettings authorizationServerSettings() {
85
           return AuthorizationServerSettings.builder().build();
86
       }
87
88
89
        * 初始化 Provider 中的 OAuth2TokenGenerator、AuthenticationManager、OAuth2Authorizatic
90
91
        * @param http
        * @param providers
92
93
        */
```

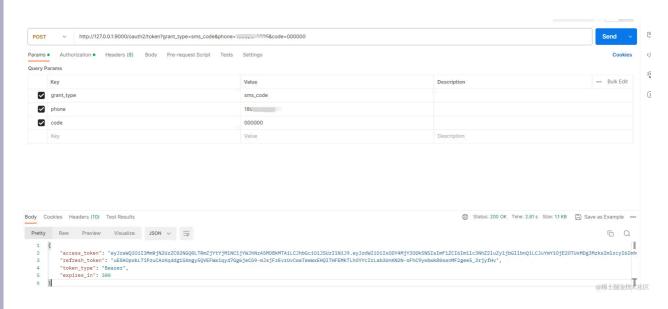


```
探索稀土掘金
```

```
AuthenticationManager authenticationManager = http.getSharedObject(AuthenticationMa
97
           OAuth2AuthorizationService authorizationService = http.getSharedObject(OAuth2AuthorizationService)
98
           for (AuthenticationProvider provider : providers) {
99
                if (provider instanceof SmsAuthenticationProvider smsAuthenticationProvider) {
100
101
                    //这个class需要用到依赖
                    smsAuthenticationProvider.setAuthorizationService(authorizationService);
102
                    smsAuthenticationProvider.setTokenGenerator(tokenGenerator);
103
                    smsAuthenticationProvider.setAuthenticationManager(authenticationManager);
104
105
               }
106
           }
107
108
109 }
```

手机号+验证码模式演示

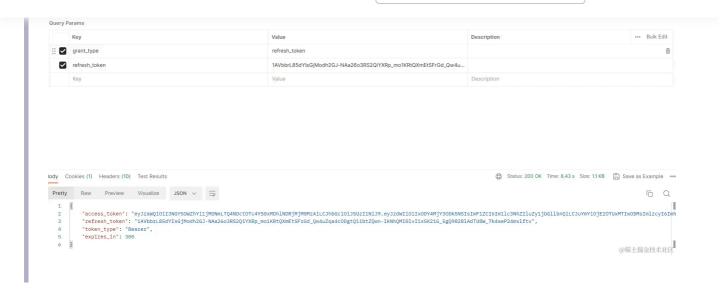
获取token



刷新token







扩展也是很so easy, 不要把spring想的过于复杂了。

Spring Boot Spring Cloud 标签: 话题: 1024—起掘金

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Spring Authorization Server入门 (十七) Vue项目使用授权码模式对接认证服务

叹雪飞花 11月前 ◎ 1.2k 1/5 9 💬 18 Vue.js 安全 Spring ...

鸭鸭笔记-Spring Authorization Server

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