

manual reference

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overview

```

[[,lightning security ]],[[[oauth2 ]](spring security
[[)]]lightning security]] ..

```

(lightning-security-specifications)

- □□□□□□□□

```
AuthenticationEntryPoint(LightningAuthenticationEntryPoint) ..
```

- □□□□□□□

```

LightningAuthenticationException ... LightningAuthError
oauth2 oauth2(yyyy) ..

```

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```
RequestHandlerMethodArgumentResolver, LightningUserPrincipal,
spring)
```

- RequestHandlerMethodArgumentEnhancer, spring
RequestHandlerMethodArgumentEnhancer ...

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- OAuth2

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- OAuth2 認証

- □□□□□□□□

```
spring-oauth2, spring security oauth2 ...
```

- ,□□*oauth2* □□, □□□□*jwt* □□□□□□: □□□□□□□□□□

- ```

#####token#####token#####token
###token###token#####token#####Filter(#####token) ..

```

```
public class ProviderSettings extends AbstractSettings implements
AuthServerProvider {
```

- token

```
tokenProvider(TokenSettingsProvider) tokenProvider tokenProvider, tokenProvider
tokenProvider tokenProvider
```

```
public class TokenSettingsProperties extends AbstractSettings {
```

- `BootstrapContext`

```

@Bean
LightningBootstrapContextInitializer LightningBootstrapContextInitializer(ioc, ...) {
 LightningBootstrapContextInitializer bean =
}

```

```

 @Bean
 public HttpSecurity httpSecurity() throws Exception {
 httpSecurity().csrf().disable().authorizeRequests().anyRequest().permitAll().and().sessionManagement().sessionCreationPolicy(SessionCreationPolicy.STATELESS).and().build();
 return httpSecurity();
 }

 @Bean
 public OAuth2LoginUtils oAuth2LoginUtils() {
 return new OAuth2LoginUtils();
 }

 @Bean
 public OAuth2LoginExtUtils oAuth2LoginExtUtils() {
 return new OAuth2LoginExtUtils();
 }
}

```

- token / token / oidc id token ...

token, LightningUserPrincipalConverter  
lightning-security, redis, LightningUserPrincipal, ...

- token

- token

token, LightningUserContext

token, lightning-security, redis, LightningUserPrincipal, ...

LightningUserPrincipal, Authentication principal, LightningUserService, LightningUserPrincipal, LightningAuthorizationService

- token

- bearer jwt token
- opaque jwt token
- token (token)
- token token
  - jws
- token token
  - LightningTokenGenerator

LightningToken, token.

```
1 LightningAccessTokenGenerator (com.generatera.security.authorization.server.specification.components.token)
2 LightningJwtGenerator (com.generatera.security.authorization.server.specification.components.token.format.jwt)
3 LightningRefreshTokenGenerator (com.generatera.security.authorization.server.specification.components.token)
```

LightningJwt jwt token, JwtSourceProvider, jwt token, ca(JwkSourceProvider) LightningAccessTokenGenerator token (spring-security) ..

token (token jwt), jwt claims, token

- LightningTokenContext

token

- LightningAccessTokenContext

LightningAccessTokenGenerator

- LightningRefreshTokenContext

LightningRefreshTokenGenerator

## LightningTokenClaimsContext

- JwtEncodingContext

jwt(`LightningAccessTokenGenerator` token, `LightningJwtGenerator`)

```
<dependency>
 <groupId>com.nimbusds</groupId>
 <artifactId>nimbus-jose-jwt</artifactId>
</dependency>
```

- token

jwt token, jwt claims, `LightningJwtCustomizer` ...

- token

spring security, `SecurityContextHolder`, token, `SecurityContextHolder.Authentication` .. + jwt, `Authentication` ..  
`LightningJwtAuthenticationConverter`, `spring-oauth2-resource-server` ..  
.. `spring-oauth2` .. `lightning-security` ..

- `spring security` oauth2, `lightning-oauth2-resource-server`, `lightning-application-resource-server`, `application-resource-server` ..  
.. `application-resource-server` ... `lightning-oauth2-resource-server`, `spring-oauth2-resource-server`, `jwt` `source`, `issuer url`, `url` `source` `org.springframework.boot.autoconfigure.security.oauth2.resource.OAuth2ResourceServerProperties`

jwt, `lightning-security` `jwt claims to userPrincipal`

token, `JwtClaimsToUserPrincipalMapper` jwt claims ..

`LightningOAuth2OpaqueTokenIntrospector` ..

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- □□□□□□□□

spring-oauth2, token, token /  
/ jwk url / issuer url `lightning-`



- LightningOAuth2UserServiceInvoker 通过 oauth2 配置项配置 token 配置项配置
- LightningUserDetailsProvider 配置项配置,配置项配置 LightningUserDetailsService ...
- token 配置
  - LightningJwtCustomizer 配置 token 配置 ..
- 配置项配置 Configurations, 配置项配置 xxxproperties,配置项配置 ... 配置项配置配置项配置配置项配置 ... 配置项配置配置项配置配置项配置 .. 配置项配置配置项配置 .. 配置项配置 token 配置项配置,配置项配置 JwkSource ...
- 配置 LightningUserContext,配置项配置配置项配置配置项配置配置项配置 LightningUserContext ...

## 配置项配置

- 配置项配置 xxxProperties 配置项配置配置项配置,配置项配置 spring oauth2 resource server配置项配置 ... 配置项配置 bearer token 配置项配置(配置项配置 header配置项配置 bearer配置项配置) ... 配置项配置 LightningResourceServerAuthenticationEntryPoint 配置项配置配置项配置 ...

## 配置项配置

配置项配置 LightningPreAuthorize / LightningPostAuthorize 配置项配置配置项配置 .. 配置项配置 AllowPartialCacheMethodSecurityMetadataSource 配置项配置配置项配置(配置项配置配置项配置),配置项配置配置项配置,配置项配置配置项配置(配置项配置 配置项配置配置项配置,配置项配置配置项配置 ... ),配置项配置 token 配置项配置,配置项配置 token配置项配置 token配置项配置,配置项配置 JwtClaimsToUserPrincipalMapper 配置项配置 token 配置项配置配置项配置配置项配置 ... 配置项配置 token配置项配置配置项配置配置项配置 ...

配置项配置 LightningPrePostMethodSecurityMetadataSource 配置项配置配置项配置 ... 配置项配置配置项配置,配置项配置 http 配置项配置(配置项配置 Actuator) 配置项配置配置项配置配置项配置 - 配置项配置 crud 配置项配置配置项配置 ...配置项配置 MetadataSourceRefreshEvent 配置项配置配置项配置配置项配置,配置项配置 jvm 配置项配置配置项配置 ... 配置项配置配置项配置配置项配置配置项配置(配置项配置)

```
private boolean enableMethodPrePostAuthorityScan = true;
```

## 配置项配置

- UserPrincipalPropertyHandlerMethodArgumentEnhancer

配置项配置 配置项配置 UserPrincipalInject配置项配置(配置项配置配置项配置),配置项配置配置项配置配置项配置 UserPrincipalProperty(配置项配置,配置项配置 list配置项配置 / 配置项配置配置项配置), 配置项配置配置项配置 dto配置项配置 配置项配置 UserPrincipalProperty配置项配置(配置项配置配置项配置配置项配置) 配置项配置 LightningUserPrincipal配置项配置 java bean配置项配置配置项配置配置项配置 dto配置项配置 ...,配置项配置:

```

@Data
@UserPrincipalInject
public class MyData {
 @UserPrincipalProperty
 private String username;
 private String password;
 @UserPrincipalProperty
 private String value;
 @UserPrincipalInject
 private MyData2 myData2 = new MyData2();
}

```

□□

```

// ----
@GetMapping
public void registerTest(@UserPrincipalInject MyData myData)
{}
// ----

```

- RequestHeaderHandlerMethodArgumentEnhancer

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RequestHeaderInject□□ ..

- LightningSecurityContext

□□□□□□□□□□LightningUserPrincipal □□

```

// ---
@GetMapping("current/user")
public Object currentUser() {
 return LightningUserContext.get()
 .getUserPrincipal()
 .map(Object::toString)
 .orElse("no current user");
}
// ---

```