

扩展JWT中存储的内容

有时候我们需要扩展JWT中存储的内容,这里我们在JWT中扩展一个 key为enhance, value为enhance info 的数据。

继承TokenEnhancer实现一个JWT内容增强器

```
package com.xxxx.springsecurityoauth2demo.config;
import org.springframework.security.oauth2.common.DefaultOAuth2AccessToken;
import org.springframework.security.oauth2.common.OAuth2AccessToken;
import org.springframework.security.oauth2.provider.OAuth2Authentication;
import org.springframework.security.oauth2.provider.token.TokenEnhancer;
import java.util.HashMap;
import java.util.Map;
/**
 * JWT内容增强器
 * @author zhoubin
 * @since 1.0.0
 */
public class JwtTokenEnhancer implements TokenEnhancer {
   @override
   public OAuth2AccessToken enhance(OAuth2AccessToken accessToken, OAuth2Authentication
authentication) {
      Map<String,Object> info = new HashMap<>();
      info.put("enhance", "enhance info");
      ((DefaultOAuth2AccessToken)accessToken).setAdditionalInformation(info);
      return accessToken;
   }
}
```

创建一个JwtTokenEnhancer实例

```
package com.xxxx.springsecurityoauth2demo.config;

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.oauth2.provider.token.TokenStore;
import org.springframework.security.oauth2.provider.token.store.JwtAccessTokenConverter;
import org.springframework.security.oauth2.provider.token.store.JwtTokenStore;

/**

* 使用Jwt存储token的配置

* @author zhoubin

* @since 1.0.0

*/
@Configuration
```



```
public class JwtTokenStoreConfig {
   @Bean
   public TokenStore jwtTokenStore(){
      return new JwtTokenStore(jwtAccessTokenConverter());
   }
   @Bean
   public JwtAccessTokenConverter jwtAccessTokenConverter(){
      JwtAccessTokenConverter accessTokenConverter = new JwtAccessTokenConverter();
      //配置JWT使用的秘钥
      accessTokenConverter.setSigningKey("test_key");
      return accessTokenConverter;
  }
  @Bean
   public JwtTokenEnhancer jwtTokenEnhancer() {
      return new JwtTokenEnhancer();
  }
}
```

在认证服务器配置中配置IWT的内容增强器

```
package com.xxxx.springsecurityoauth2demo.config;
import com.xxxx.springsecurityoauth2demo.component.JwtTokenEnhancer;
import com.xxxx.springsecurityoauth2demo.service.UserService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.beans.factory.annotation.Qualifier;
import org.springframework.context.annotation.Configuration;
import org.springframework.security.authentication.AuthenticationManager;
import org.springframework.security.crypto.password.PasswordEncoder;
import
org.springframework.security.oauth2.config.annotation.configurers.ClientDetailsServiceConfi
gurer;
import
org.springframework.security.oauth2.config.annotation.web.configuration.AuthorizationServer
ConfigurerAdapter;
import
org.springframework.security.oauth2.config.annotation.web.configuration.EnableAuthorization
Server;
org.springframework.security.oauth2.config.annotation.web.configurers.AuthorizationServerEn
dpointsConfigurer;
import org.springframework.security.oauth2.provider.token.TokenEnhancer;
import org.springframework.security.oauth2.provider.token.TokenEnhancerChain;
import org.springframework.security.oauth2.provider.token.TokenStore;
import org.springframework.security.oauth2.provider.token.store.JwtAccessTokenConverter;
import java.util.ArrayList;
import java.util.List;
/**
```



```
* 授权服务器配置
* @author zhoubin
* @since 1.0.0
*/
@Configuration
@EnableAuthorizationServer
public class AuthorizationServerConfig extends AuthorizationServerConfigurerAdapter {
   @Autowired
    private PasswordEncoder passwordEncoder;
   @Autowired
   private AuthenticationManager authenticationManager;
   @Autowired
   private UserService userService;
   @Autowired
   @Qualifier("jwtTokenStore")
    private TokenStore tokenStore;
   @Autowired
   private JwtAccessTokenConverter jwtAccessTokenConverter;
   @Autowired
   private JwtTokenEnhancer jwtTokenEnhancer;
     * 使用密码模式需要配置
    */
   @override
    public void configure(AuthorizationServerEndpointsConfigurer endpoints) {
       TokenEnhancerChain enhancerChain = new TokenEnhancerChain();
       List<TokenEnhancer> delegates = new ArrayList<>();
       //配置JWT的内容增强器
       delegates.add(jwtTokenEnhancer);
       delegates.add(jwtAccessTokenConverter);
        enhancerChain.setTokenEnhancers(delegates);
        endpoints.authenticationManager(authenticationManager)
                .userDetailsService(userService)
               //配置存储令牌策略
                .tokenStore(tokenStore)
                .accessTokenConverter(jwtAccessTokenConverter)
                .tokenEnhancer(enhancerChain);
   }
   @override
    public void configure(ClientDetailsServiceConfigurer clients) throws Exception {
       clients.inMemory()
               //配置client_id
                .withClient("admin")
               //配置client-secret
                .secret(passwordEncoder.encode("112233"))
                //配置访问token的有效期
                .accessTokenValiditySeconds(3600)
```



```
//配置刷新token的有效期
.refreshTokenValiditySeconds(864000)
//配置redirect_uri,用于授权成功后跳转
.redirectUris("http://www.baidu.com")
//配置申请的权限范围
.scopes("all")
//配置grant_type,表示授权类型
.authorizedGrantTypes("authorization_code","password");
}
}
```

运行项目后使用密码模式来获取令牌,之后对令牌进行解析,发现已经包含扩展的内容。

```
{
  "user_name": "admin",
  "scope": [
      "all"
],
  "exp": 1578906530,
  "authorities": [
      "admin"
],
  "jti": "8566cc9c-18cc-4bad-a29f-e54edd7fb19f",
  "client_id": "admin",
  "enhance": "enhance info"
}
```