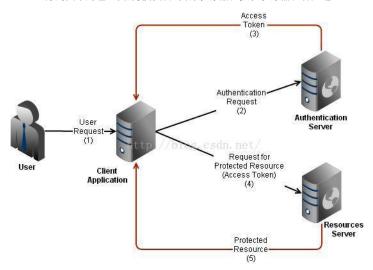
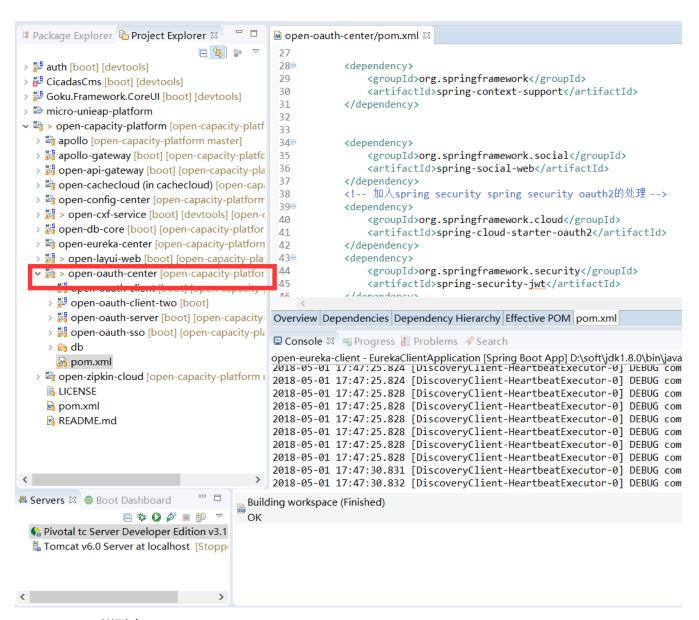
基于spring security 保护的restful框架: Spring Cloud oauth

OAuth2分为四个角色:资源拥有者、资源服务器、授权服务器、客户端



open-oauth-center oauth2 认证服务器 资源服务器分离架构中心



open-oauth-server 认证中心

```
Package Explorer  Project Explorer ≅

☑ OAuth2ServerConfig.java 
☒
                                                        package com.open.capacity.server.oauth2;
    > 👫 open-api-gateway [boot] [open-capacity- 🔨
    > 😋 open-cachecloud (in cachecloud) [open-c
                                                                                     40 import javax.annotation.Resource;
    > 🔓 open-config-center [open-capacity-platfc
                                                                                   32
    > 🕌 > open-cxf-service [boot] [devtools] [ope
                                                                                   33@ /**
    > 👫 open-db-core [boot] [open-capacity-plat
                                                                                   34 * @author owen 624191343@qq.com
    > open-eureka-center [open-capacity-platform master] * @version 创建时间: 2017年11月12日 上午22:57:51
    > 😽 > open-layui-web [boot] [open-capacity-
                                                                                   37 @Configuration
    > $\overline{h}$ > open-oauth-center [open-capacity-plat]
                                                                                   38 public class OAuth2ServerConfig {
           🕌 open-oauth-client [boot] [open-capaci
                                                                                   39
        > 🔑 open-oauth-client-two [boot]
                                                                                   40
                                                                                                private Logger logger =LoggerFactory.getLogger(OAuth2ServerCon

v 况 open-oauth-server [boot] [open-capac]

                                                                                   41
             🛩 Spring Elements
                                                                                   42⊜
                                                                                                @Resource
            private DataSource dataSource;
                                                                                   43
               ∨ 📠 com.open.capacity
                                                                                   44
                                                                                   450
                                                                                                @Bean // 声明 ClientDetails实现
                    > 🚜 controller
                                                                                                @ConditionalOnProperty(prefix = "security.oauth2.token.store",
                                                                                   46
                   > # filter
                                                                                   47
                                                                                                public ClientDetailsService clientDetailsService() {
                   48
                                                                                                        return new JdbcClientDetailsService(dataSource);
                        > 🚜 config
                        > 🚜 controller
                                                                                🖳 Console 🖾 🤜 Progress 📳 Problems 🥜 Search
                        > # service
                                                                               open-eureka-client - EurekaClientApplication [Spring Boot App] D:\soft\jdk1.8.0\bin\java 2018-05-01 18:06:48.035 [Eureka-JerseyClient-Conn-Cleaner2] DEBUG com.nc
                        > 📠 token

    Auth2ServerConfig.java

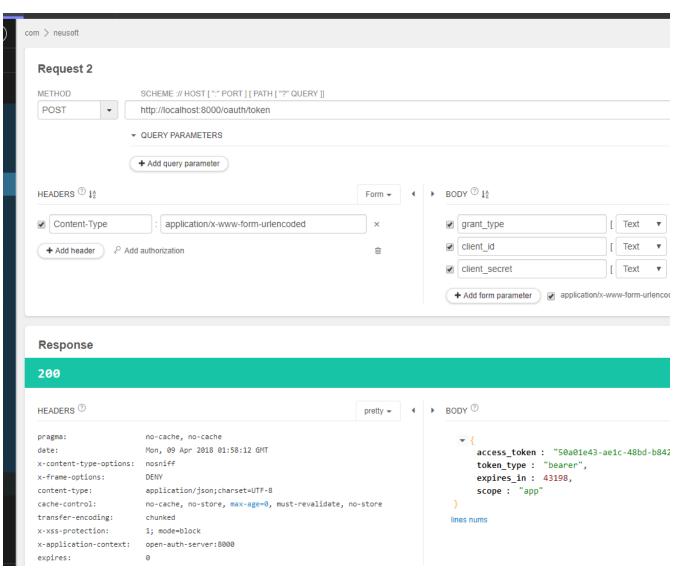
                                                                               2018-05-01 18:06:48.035 [Eureka-JerseyClient-Conn-Cleaner2] DEBUG com.ne
                           > G OAuth2ServerConfig
                                                                               2018-05-01 18:06:48.035 [Eureka-JerseyClient-Conn-Cleaner2] DEBUG com.nc
                   > 🖶 utils
                                                                               2018-05-01 18:06:52.896 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
                                                                               2018-05-01 18:06:52.896 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
                    > 🛺 OpenAuthServerApp.java
                                                                               2018-05-01 18:06:52.896 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
            > # src/main/resources
                                                                               2018-05-01 18:06:52.896 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
            > ■ JRE System Library [JavaSE-1.8]
                                                                               2018-05-01 18:06:52.896 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
            > Maven Dependencies
                                                                               2018-05-01 18:06:52.897 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
                                                                               2018-05-01 18:06:52.897 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
                                                                               2018-05-01 18:06:52.900 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com

♣ Servers 

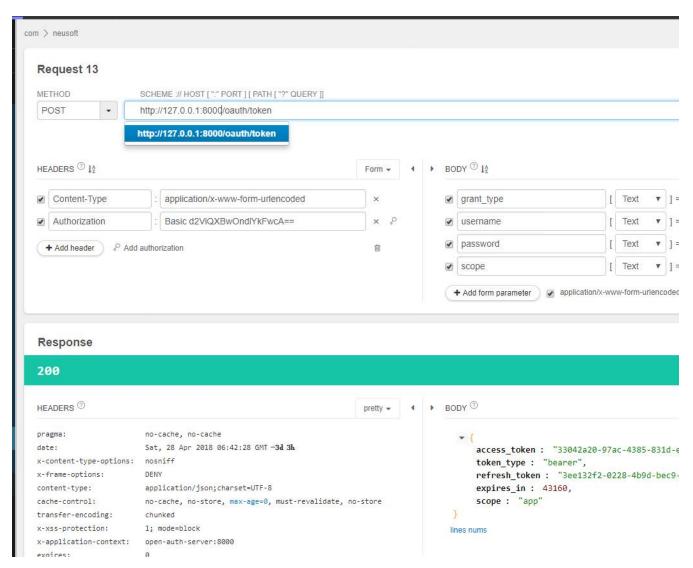
Boot Dashboard

Boot Dashboar
                                                                               2018-05-01 18:06:52.900 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
                                            🖹 🕸 🚺 🔊 🔳 🖺
                                                                               2018-05-01 18:06:52.900 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
   hivotal tc Server Developer Edition v3.1 [Stopp
                                                                               2018-05-01 18:06:52.900 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
                                                                                2018-05-01 18:06:52.900 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
    Tomcat v6.0 Server at localhost [Stopped]
                                                                               2018-05-01 18:06:52.900 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
                                                                               2018-05-01 18:06:52.900 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com
```

客户端模式

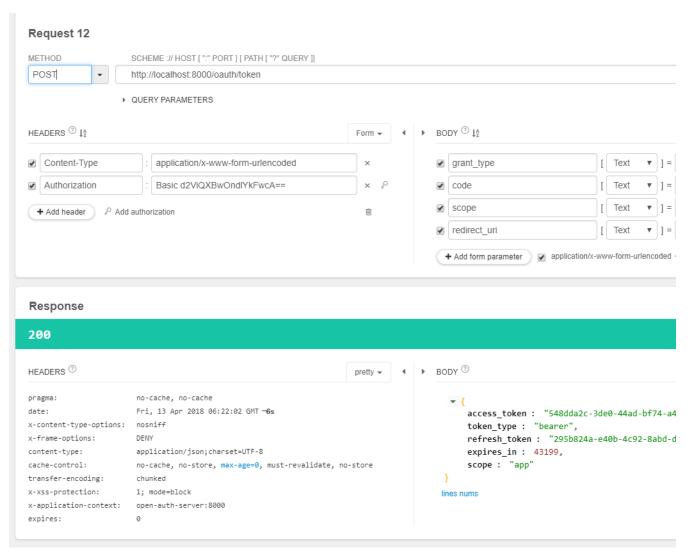


密码模式

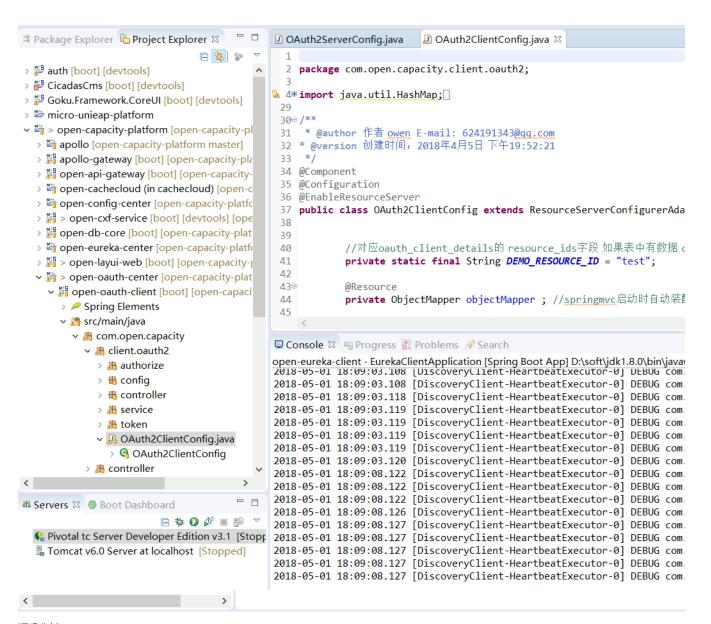


授权码模式 1.获取授权码 http://localhost:8000/oauth/authorize? client_id=webApp&redirect_uri=http://www.baidu.com&state=abc&scope=app&response_type=code

2.授权码换token



open-oauth-client open-oauth-client-two open-api-gateway 均为资源服务器



源码分析

Spring Security OAuth简介



```
OAuth 2 Authentication Processing Filter. class
                                         * authorization header). Loads an authentication from the {@link ResourceServerTokenServices} and checks
  67
           st resource id is contained in the {@link AuthorizationRequest} (if one is specified). Also copies authen
  68
  69
           st details over from the input to the output (e.g. typically so that the access token value and request \phi
  70
           * be reported later).
  71
  72
            @param authentication an authentication request containing an access token value as the principal
  73
            @return an {@link OAuth2Authentication}
  74
  75
          * @see org.springframework.security.authentication.AuthenticationManager#authenticate(org.springframework
  76
  778
         public Authentication authenticate(Authentication authentication) throws AuthenticationException {
  78
  79
             if (authentication == null) {
  80
                 throw new InvalidTokenException("Invalid token (token not found)");
  81
             String token = (String) authentication.getPrincipal();
  82
  83
             OAuth2Authentication auth = tokenServices.loadAuthentication(token);
  84
             if (auth == null) {
  85
                 throw new InvalidTokenException("Invalid token: " + token);
  86
                                                                                                       & X 🔆 🔳
■ Console X → Progress  Problems  Search
open-eureka-client - EurekaClientApplication [Spring Boot App] D:\soft\jdk1.8.0\bin\javaw.exe (2018年5月1日 下午5:25:59)
2018-05-01 18:11:17.955 [Eureka-Jerseyllient-Conn-Cleaner2] DEBUG com.nettlix.discovery.shared.MonitoredConnectionM
2018-05-01 18:11:17.955 [Eureka-JerseyClient-Conn-Cleaner2] DEBUG com.netflix.discovery.shared.NamedConnectionPool
2018-05-01 18:11:18.049 [Eureka-JerseyClient-Conn-Cleaner2] DEBUG com.netflix.discovery.shared.MonitoredConnectionM
2018-05-01 18:11:18.049 [Eureka-JerseyClient-Conn-Cleaner2] DEBUG com.netflix.discovery.shared.NamedConnectionPool
2018-05-01 18:11:18.049 [Eureka-JerseyClient-Conn-Cleaner2] DEBUG com.netflix.discovery.shared.NamedConnectionPool
2018-05-01 18:11:18.049 [Eureka-JerseyClient-Conn-Cleaner2] DEBUG com.netflix.discovery.shared.NamedConnectionPool
2018-05-01 18:11:18.331 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com.netflix.discovery.shared.MonitoredConnectic
2018-05-01 18:11:18.332 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com.netflix.discovery.shared.NamedConnectionPoc
2018-05-01 18:11:18.344 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com.netflix.discovery.shared.MonitoredConnectic
2018-05-01 18:11:18.344 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com.netflix.discovery.shared.NamedConnectionPoc
2018-05-01 18:11:18.344 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com.netflix.discovery.shared.NamedConnectionPoc
2018-05-01 18:11:18.344 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com.netflix.discovery.shared.NamedConnectionPoc
2018-05-01 18:11:18.344 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com.netflix.discovery.shared.transport.jersey.
2018-05-01 18:11:18.344 [DiscoveryClient-HeartbeatExecutor-0] DEBUG com.netflix.discovery.DiscoveryClient - Discov€
```

认证服务器 资源服务器统一实现配置tokenstore,同时直接连接redis校验token是否有效

Operation of the property o

RemoteTokenServices

一般为单点登录sso时使用,此方式需要通过http方式连接认证中心,同时还需要访问redis,多一层网络连接,建议不采用此方式