秘钥生成文档

写在前面

- 1. 首先在系统中生成三个文件
- 2. 其次运行 lisence 项目生成 lisence.lic 证书
- 3. 集成主项目(这一步已经集成了),主要修改主项目文件路径,对比是否与前面生成的文件路径一样

例如在D:/wms/文件下 cmd 依次运行下面三行指令, 生成三个文件

```
keytool -genkey -keysize 1024 -keyalg DSA -validity 3650 -alias "privateKey" -
keystore "privateKeys.keystore" -storepass "ygzwms5656" -keypass "ygzwms5656"
-dname "CN=localhost, OU=localhost, O=localhost, L=SH, ST=SH, C=CN"

keytool -exportcert -alias "privateKey" -keystore "privateKeys.keystore" -
storepass "ygzwms5656" -file "certfile.cer"

keytool -import -alias "publicCert" -file "certfile.cer" -keystore
"publicCerts.keystore" -storepass "ygzwms5656"
```

然后可以看到以下三个文件:

```
privateKeys.keystore (私钥)提供给生成证书使用(自己保留)publicCerts.keystore (公钥)提供给证书认证使用(给客户使用)certfile.cer 后续步骤用不到,可以删除。
```

这是生成的三个文件

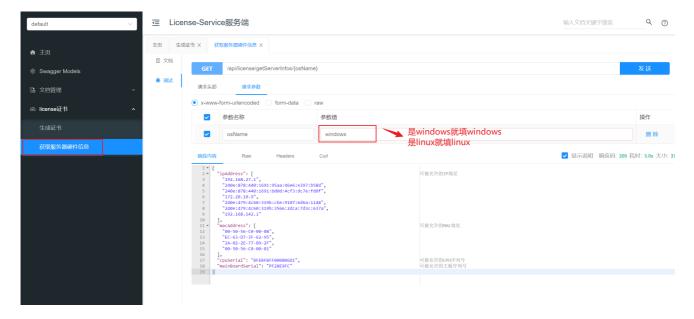


打开 springboot-license 项目进行运行

修改 application.yml 文件中的文件路径

```
license:
# 这是存放的路径, linux需要修改,例如改成/wms/**
licensePath: D:/wms/license.lic
```

打开网址 http://localhost:8099/api/doc.html 获取服务器硬件信息



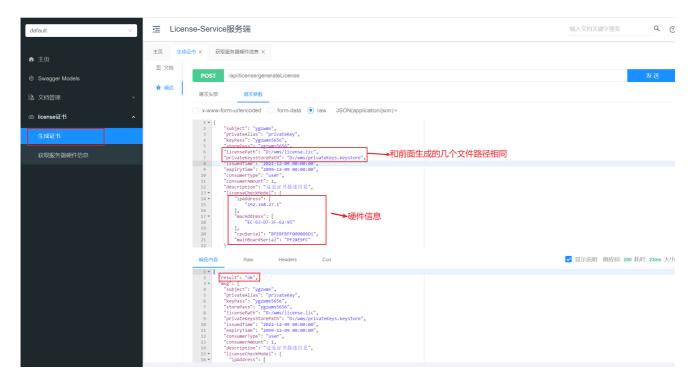
根据获取的硬件信息生成 license.lic 证书

以下参数需修改

- 1. licensePath 和 privateKeysStorePath 位置
- 2. licenseCheckModel中四个参数的信息,必须修改

```
windows环境
  "subject": "ygzwms",
  "privateAlias": "privateKey",
  "keyPass": "ygzwms5656",
  "storePass": "ygzwms5656",
  "licensePath": "D:/wms/license.lic",
  "privateKeysStorePath": "D:/wms/privateKeys.keystore",
  "issuedTime": "2022-12-09 00:00:00",
  "expiryTime": "2099-12-09 00:00:00",
  "consumerType": "user",
  "consumerAmount": 1,
  "description": "这是证书描述信息",
  "licenseCheckModel": {
      "ipAddress":
          "192.168.27.1"
      "macAddress": [
          "EC-63-D7-3F-62-95"
      "cpuSerial": "BFEBFBFF000806D1",
      "mainBoardSerial": "PF2XE9FC"
linux环境
```

```
"subject": "ygzwms"
  "privateAlias": "privateKey",
  "keyPass": "ygzwms5656",
  "storePass": "ygzwms5656",
  "licensePath": "/wms/license.lic",
  "privateKeysStorePath": "/wms/privateKeys.keystore",
  "issuedTime": "2022-12-09 00:00:00",
  "expiryTime": "2099-12-09 00:00:00",
  "consumerType": "user",
  "consumerAmount": 1,
  "description": "这是证书描述信息",
  "licenseCheckModel": {
      "ipAddress":
         "192.168.27.1"
      "macAddress": [
         "EC-63-D7-3F-62-95"
      "cpuSerial": "BFEBFBFF000806D1",
      "mainBoardSerial": "PF2XE9FC"
linux
  "subject": "ygzwms",
  "privateAlias": "privateKey",
  "keyPass": "ygzwms5656",
  "storePass": "ygzwms5656",
  "licensePath": "/ygz/wms/license/license.lic",
  "privateKeysStorePath": "/ygz/wms/license/privateKeys.keystore",
  "issuedTime": "2022-12-09 00:00:00",
  "expiryTime": "2099-12-09 00:00:00",
  "consumerType": "user",
  "consumerAmount": 1,
  "description": "这是证书描述信息",
  "licenseCheckModel": {
      "ipAddress":
         "172.24.11.55"
      "macAddress": [
         "00-16-3E-03-6A-60"
      "cpuSerial": "54 06 05 00 FF FB 8B 0F",
      "mainBoardSerial": "95fdcef8-8805-4035-9a89-bf53fbe22759"
```



生成的文件和之前生成的保持在同一路径



到这里在服务器生成授权文件已经完成,接下俩需要修改wms的sysConfig文件

集成到主项目

```
∨ 🗖 com
    🗖 jeecg
 🗸 🗖 zp
    > 🗖 api
       ba
      □ bald
    > 🗖 bart
      D■ BI
    > 🖿 billutil
    > 🗖 bireport
    > bm
      cas
    > 🗖 config
      datahub
    > 🗖 dingding
      ■ e3base
    >
      🗖 fi

✓ □ license

✓ □ conf
           AbstractServerInfos
            CustomKeyStoreParam
            C LinuxServerInfos
            WindowsServerInfos
       controller
            LicenseCheckInterceptor
            LicenseCheckListener
            C LicenseManagerHolder
```

```
c CustomLicenseManager
c LicenseCheckModel
c LicenseVerifyParam
md
```

修改 sysConfig.properties 中秘钥的路径

```
# windows ? linux
license.licensePath=D://License//license.lic
#license.licensePath=/wms/license/license.lic
license.publicKeysStorePath=D://License//publicCerts.keystore
#license.publicKeysStorePath=/wms/license/publicCerts.keystore

# 开启授权认证, 关闭授权
# false
#app.token.flag.secretkey=PTNOkI+wLh0=
# true
app.token.flag.secretkey=aqvxTFL8q3o=
```

修改 LicenseCheckListener 个别关键字值

```
/**

* 证书subject

*/
private String subject = "ygzwms";

/**

* 公钥别称

*/
private String publicAlias = "publicCert";

/**

* 访问公钥库的密码

*/
private String storePass = "ygzwms5656";

/**

* 证书生成路径

*/
// private String licensePath = "D://License//license.lic";
// private String licensePath = "/wms/license/license.lic";
```

```
private String licensePath =
ResourceUtil.getConfigByName("license.licensePath");

/**
    * 密钥库存储路径
    */
// private String publicKeysStorePath =
"D://License//publicCerts.keystore";
// private String publicKeysStorePath =
"/wms/license/publicCerts.keystore";
private String publicKeysStorePath =
ResourceUtil.getConfigByName("license.publicKeysStorePath");
```

修改 loginController.java 的 login 接口

```
修改这个 public String login
(StrUtil.isBlank(AlgorithmEncryptUtil.getCheckConfigFlag())) {
("true".equalsIgnoreCase(AlgorithmEncryptUtil.getCheckConfigFlag())) {
                           request.setAttribute("expireTime",j.getObj());
               } catch (Exception e) {
   if ("true".equalsIgnoreCase(AlgorithmEncryptUtil.getCheckConfigFlag())) {
       log.info("登录验证证书可使用性");
       LicenseVerify licenseVerify = new LicenseVerify();
```

```
boolean verifyResult = licenseVerify.verify();

if(verifyResult){
    log.info("验证成功,放行");
}else{
    log.info("验证失败,拦截");
    request.setAttribute("msg","您的证书无效,请核查服务器是否取得授权或重新申请证书!");
    return "login/login";
}
```

pom.xml 文件增加授权依赖