1.产生rsa 2048私钥

openssl genrsa -out rsa_2048_private.pem 2048

openssl genrsa -aes256 -passout pass:rockchip 2048

2.解出公钥

openssl rsa -in rsa_2048_private.pem -out rsa_2048_public.pem -pubout

3.pem转换der

openssl rsa -in rsa_2048_private.pem -outform DER -out rsa_2048_private.der

4.输出私钥的内容

openssl rsa -in rsa_2048_private.pem -text -noout

5.输出公钥的内容

openssl rsa -in rsa_2048_public.pem -pubin -text -noout

6.产生mykey.bin的sha256摘要,保存到mykey_sha256.bin中

openssl dgst -sha256 -binary -out mykey_sha256.bin mykey.bin

7.用私钥对mykey_sha256.bin进行rsa签名

openssl rsautl -sign -in mykey_sha256.bin -inkey rsa_2048_private.pem -out mykey_sha256_signed.bin

8.用公钥对mykey_sha256_signed.bin进行签名验证

openssl rsautl -verify -in mykey_sha256_signed.bin -inkey rsa_2048_public.pem - pubin

- -hexdump
- 9.用私钥对mykey_sha256.bin进行rsa签名,填充模式pss,salt值-1

openssl pkeyutl -sign

- -in mykey_sha256.bin -inkey rsa_2048_private.pem
- -out mykey_sha256_pss_signed.bin
- -pkeyopt digest:sha256
- -pkeyopt rsa_padding_mode:pss
- -pkeyopt rsa_pss_saltlen:-1