



链滴

## EOS 学习笔记 2

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原文链接: <https://ld246.com/article/1543294392161>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

根据官网开发文档实际操作即可。

<https://developers.eos.io/eosio-home/docs>

<https://zhuanlan.zhihu.com/p/37891815>

cleos

## 钱包

```
cleos wallet create --to-console
```

```
cleos wallet open
```

```
cleos wallet list
```

```
cleos wallet unlock
```

```
cleos wallet create_key
```

```
warn 2018-11-27T02:58:55.049 thread-0 wallet.cpp:223 save_wallet_file ] saving wallet to file root/eosio-wallet/./default.wallet
```

```
Created new private key with a public key of: "EOS6erobkNLjYFzUbfr2P778kHrRo5P7d5b5tMShVgoQ92P7g2Mo"
```

```
cleos wallet import
```

You'll be prompted for a private key, enter the eosio development key provided below

```
5KQwrPbwdL6PhXujxW37FSSQZ1JiwsST4cqQzDeyXtP79zkvFD3
```

## 账户

```
cleos create key -f myKey.txt
```

```
cleos create account [OPTIONS] creator name OwnerKey ActiveKey
```

If the system contract is loaded, (for example a production network) then use [cleos system n waccount](#) instead

```
cleos create account eosio bob EOS72iMnMyaADjELbrAe3f9fUmKe6aEUqr6Hypa3wpVpAry1b wHQ EOS8Yxz5xQnELbg4yosR5CLeUA3kdF4fiM4CEX2fFyHL4yZ2gQBCj
```

```
cleos create account eosio bob123 EOS6erobkNLjYFzUbfr2P778kHrRo5P7d5b5tMMShVgoQ9 P7g2Mo
```

```
cleos create account eosio alice EOS6erobkNLjYFzUbfr2P778kHrRo5P7d5b5tMMShVgoQ92P g2Mo
```

## 合约

编译

```
eosio-cpp -o hello.wasm hello.cpp --abigen
```

创建自己的合约账户

```
cleos create account eosio hello EOS6erobkNLjYFzUbfr2P778kHrRo5P7d5b5tMMShVgoQ92Pg2Mo -p eosio@active
```

部署代币合约

```
cleos set contract hello /root/contract/hello -p hello@active
```

调用合约方法

```
cleos push action hello hi '["bob"]' -p alice@active
```

权限验证

Use the `require_auth` method. This method takes an name as a parameter, and will check if the user executing the action matches the provided parameter.

```
cleos push action hello hi '["alice123"]' -p alice@active
```

Error 3090004: Missing required authority

Ensure that you have the related authority inside your transaction!;

If you are currently using 'cleos push action' command, try to add the relevant authority using -p option.

## 使用eos已有代码部署合约

开发者公钥, 合约eosio.token

```
cleos create account eosio eosio.token EOS6MRyAjQq8ud7hVNYcfnVPJqcVpscN5So8BhtHuGqET5GDW5CV
```

编译

```
eosio-cpp -I include -o eosio.token.wasm src/eosio.token.cpp --abigen
```

部署

```
cleos set contract eosio.token /root/contract/eosio.contracts/eosio.token --abi eosio.token.abi -p eosio.token@active
```

## 发币

发行新代币**SYS**, 1000000000.0000个

**Create the Token**创建新token

```
cleos push action eosio.token create ['"eosio", "1000000000.0000 SYS"]' -p eosio.token@active
```

发行向Alice issue 100 SYS

```
cleos push action eosio.token issue '[ "alice", "100.0000 SYS", "memo" ]' -p eosio@active
```

### 开发调试选项

To inspect the transaction, try using the `-d -j` options, they indicate "don't broadcast" and "return transaction as json," which you may find useful during development.

```
cleos push action eosio.token issue ["alice", "100.0000 SYS", "memo"] -p eosio@active -d -j
```

```
{
  "expiration": "2018-11-27T04:01:52",
  "ref_block_num": 8647,
  "ref_block_prefix": 4181672008,
  "max_net_usage_words": 0,
  "max_cpu_usage_ms": 0,
  "delay_sec": 0,
  "context_free_actions": [],
  "actions": [{
    "account": "eosio.token",
    "name": "issue",
    "authorization": [{
      "actor": "eosio",
      "permission": "active"
    }
  ],
  "data": "0000000000855c3440420f00000000000453595300000000046d656d6f"
},
  "transaction_extensions": [],
  "signatures": [
    "SIG_K1_JzGca5sVkd9ZpPC2vK5oQaSTKmA9CmHLFYdJkswEjLpYCA8iK1msnsW7Cricf7RNvTczJWYDnUZQ6WJb9S2j7smrHxZaf"
  ],
}
```

```
"context_free_data": []
```

```
}
```

转账Alice向bob转25个SYS

```
cleos push action eosio.token transfer '[ "alice", "bob", "25.0000 SYS", "m" ]' -p alice@active
```

查询账户余额

<https://developers.eos.io/eosio-cleos/reference#currency-balance>

```
cleos get currency balance eosio.token bob SYS
```

```
25.00 SYS
```