

第二篇 - EOS Currency 合约案例

2018-04-13 | 阅读：464次

切换到 eos/build/programs/cleos 路径下面。

1. 钱包设置

秘钥需要保存好，后面解锁时会用到。

```
liyuechun:cleos yuechunli$ ./cleos wallet create
Creating wallet: default
Save password to use in the future to unlock this wallet.
Without password imported keys will not be retrievable.
"PW5HtkrzGaNKGNKVGXc6icWiWdo7PFsjWJAdE2dJbt5bSnbwb7spd"
```

2. 为账号部署合约

```
liyuechun:cleos yuechunli$ ./cleos set contract eosio ../../contracts/eosio.bios -p eosio
```

```
liyuechun:cleos yuechunli$ ./cleos set contract eosio ../../contracts/eosio.bios -p eosio
Reading WAST/WASM from ../../contracts/eosio.bios/eosio.bios.wast...
Assembling WASM...
Publishing contract...
executed transaction: 32735994889238e18ba60341bb79f6b674738727e9d5996991f8f34b496e3a18 3288 bytes 2200576 cycles
# eosio <= eosio::setcode {"account":"eosio","vmtype":0,"vmversion":0,"code":"0061736d0100000001581060037f7e7f0060057f7e7e7e...
# eosio <= eosio::setabi {"account":"eosio","abi":{"types":[],"structs":[{"name":"set_account_limits","base":"","fields":[{"n...
liyuechun:cleos yuechunli$
```

3. 创建2个 key ，导入 key 的私钥

```
liyuechun:cleos yuechunli$ ./cleos create key
Private key: 5Kg4i6WW6mfGXGjriU552KdAQ8tQyCU4mqtevVganWwbzQf1rD1
Public key: EOS5MSKE5DGgSurc7k3Sv9kWrev6E3GBBqasdiiC3yajPwrW7c4Uq

liyuechun:cleos yuechunli$ ./cleos create key
Private key: 5Kg2P7PRA7wWrW2s53JiaBur7PhDtDsCMZUwQ8Yvn8uAmu8xEMB
Public key: EOS7wERhooVJwqYLuQn5v6UDZnL5KQpGJBDMQoktkxz4baNzicwLX

liyuechun:cleos yuechunli$ ./cleos wallet import 5Kg4i6WW6mfGXGjriU552KdAQ8tQyCU4mqtevVganWwbzQf1rD1
imported private key for: EOS5MSKE5DGgSurc7k3Sv9kWrev6E3GBBqasdiiC3yajPwrW7c4Uq
```

```
liyuechun:cleos yuechunli$ ./cleos wallet import 5Kg2P7PRA7wWrW2s53JiaBur7PhDtDsCMZUwQ8Yvn8uAmu8xEMB
imported private key for: EOS7wERhooVJwqYLuQn5v6UDZnL5KQpGJBDMQoktkxz4baNzicwLX
liyuechun:cleos yuechunli$
```

4. 根据生成的公钥，创建帐号

```
$ liyuechun:cleos yuechunli$ ./cleos create account eosio eostoken EOS5MSkE5DGgSurc7k3Sv9kWrev6E3GBBqasdiIC3yajPwrW7c4Uq EOS7wERhooVJwqYLuQn5v6UDZnL5KQpGJBDMQoktkxz4baNzicwLX
```

```
liyuechun:cleos yuechunli$ ./cleos create account eosio eostoken EOS5MSkE5DGgSurc7k3Sv9kWrev6E3GBBqasdiIC3yajPwrW7c4Uq EOS7wERhooVJwqYLuQn5v6UDZnL5KQpGJBDMQoktkxz4baNzicwLX
executed transaction: e691042df8074a25f47b8364f58a03c2c407e64d2cbc7248e1e9a611a06fe547 352 bytes 102400 cycles
# eosio <= eosio::newaccount {"creator":"eosio","name":"eostoken","owner":{"threshold":1,"keys":[{"key":"EOS5MSkE5DGgSurc7k3Sv9kW...
```

5. 查看账号信息

```
liyuechun:cleos yuechunli$ ./cleos get account eostoken
```

```
liyuechun:cleos yuechunli$ ./cleos get account eostoken
{
  "account_name": "eostoken",
  "permissions": [{
    "perm_name": "active",
    "parent": "owner",
    "required_auth": {
      "threshold": 1,
      "keys": [{
        "key": "EOS7wERhooVJwqYLuQn5v6UDZnL5KQpGJBDMQoktkxz4baNzicwLX",
        "weight": 1
      }]
    },
    "accounts": []
  }],
  "perm_name": "owner",
  "parent": "",
  "required_auth": {
    "threshold": 1,
    "keys": [{
      "key": "EOS5MSkE5DGgSurc7k3Sv9kWrev6E3GBBqasdiIC3yajPwrW7c4Uq",
      "weight": 1
    }]
  },
  "accounts": []
}
```

```
]
}
liyuechun:cleos yuechunli$
```

6. 检测，并部署合约

```
$ ./cleos get code currency
$ ./cleos set contract currency ../../contracts/currency
$ ./cleos get code currency
```

```
liyuechun:cleos yuechunli$ ./cleos get code currency
code hash: 0000000000000000000000000000000000000000000000000000000000000000
liyuechun:cleos yuechunli$ ./cleos set contract currency ../../contracts/currency
Reading WAST/WASM from ../../contracts/currency/currency.wast...
Assembling WASM...
Publishing contract...
executed transaction: eec4d42d5c1aab8785ce8e55618bf209d2e4dbcaf881e004c260c779d5571cef 7112 bytes 2200576 cycles
# eosio <= eosio::setcode {"account":"currency","vmtype":0,"vmversion":0,"code":"0061736d010000000199011860000060027e7e0060017...
# eosio <= eosio::setabi {"account":"currency","abi":{"types":[{"new_type_name":"account_name","type":"name"}],"structs":[{"n...
liyuechun:cleos yuechunli$ ./cleos get code currency
code hash: d6c891fbdffc597d82e17c81354574399b01d533e53d412093f03e1950fb9d4
liyuechun:cleos yuechunli$
```

7. 创建货币

```
$ ./cleos push action currency create '{"issuer":"currency","maximum_supply":"1000000.0000 CUR","can_freeze":"0","can_recall":"0","can_whitelist":"0"}' --permission currency@active
```

```
liyuechun:cleos yuechunli$ ./cleos push action currency create '{"issuer":"currency","maximum_supply":"1000000.0000 CUR","can_freeze":"0","can_recall":"0","can_whitelist":"0"}' --per
executed transaction: ae92a14b810e1437e9a0e8ae0527268a1e0fbd834d8c0a6906c8b65d9b503dc4 248 bytes 103424 cycles
# currency <= currency::create {"issuer":"currency","maximum_supply":"1000000.0000 CUR","can_freeze":0,"can_recall":0,"can_whitelis...
>> create
liyuechun:cleos yuechunli$
```

8. 发行货币

```
$ ./cleos push action currency issue '{"to":"currency","quantity":"1000.0000 CUR","memo":""}' --permission currency@active
```

```
liyuechun:cleos yuechunli$ ./cleos push action currency issue '{"to":"currency","quantity":"1000.0000 CUR","memo":""}' --permission currency@active
executed transaction: 7b8108d19aba6c8dcc601c321ef3c433cd2a3aedbd3ac1b217f06477792b40f7 248 bytes 106496 cycles
```

```
#      currency <= currency::issue      {"to":"currency","quantity":"1000.0000 CUR","memo":""}  
>> issue  
liyuechun:cleos yuechunli$
```

9. 查看帐号信息

```
$ ./cleos get table currency currency accounts
```

```
liyuechun:cleos yuechunli$ ./cleos get table currency currency accounts  
{  
  "rows": [{  
    "balance": "1000.0000 CUR",  
    "frozen": 0,  
    "whitelist": 1  
  }  
],  
  "more": false  
}  
liyuechun:cleos yuechunli$
```

10. 转账

```
$ ./cleos push action currency transfer '{"from":"currency","to":"eosio","quantity":"20.0000 CUR","memo":"my first transfer"}' --permission currency@active  
$ ./cleos get table currency currency accounts
```

```
liyuechun:cleos yuechunli$ ./cleos push action currency transfer '{"from":"currency","to":"eosio","quantity":"20.0000 CUR","memo":"my first transfer"}' --permission currency@active  
executed transaction: 4a24e5a9afd17abe61dcb3b3aff06a1c5ec94663f803d3d1801bd7a5046fea9e 272 bytes 109568 cycles  
#      currency <= currency::transfer      {"from":"currency","to":"eosio","quantity":"20.0000 CUR","memo":"my first transfer"}  
>> transfer  
#      eosio <= currency::transfer      {"from":"currency","to":"eosio","quantity":"20.0000 CUR","memo":"my first transfer"}  
liyuechun:cleos yuechunli$ ./cleos get table currency currency accounts  
{  
  "rows": [{  
    "balance": "980.0000 CUR",  
    "frozen": 0,  
    "whitelist": 1  
  }  
],  
  "more": false  
}
```

11. 视频获取方式

