

007 开发环境下测试弹珠资产管理系统的chaincode

部署链码

将 弹珠资产管理系统的链码拷贝到 `fabric-samples/chaincode`

进入链码开发目录

```
cd fabric-samples/chaincode-docker-devmode
```

打开3个终端

终端1

```
$ docker-compose -f docker-compose-simple.yaml up
```

终端2

```
$ docker exec -it chaincode bash

$ cd chaincode006

$ go build

$ CORE_PEER_ADDRESS=peer:7051 CORE_CHAINCODE_ID_NAME=mycc:0 ./chaincode006
```

终端3

```
$ docker exec -it cli bash

$ peer chaincode install -p chaincodedev/chaincode/chaincode006 -n mycc -v 0

$ peer chaincode instantiate -n mycc -v 0 -c '{"Args":[]}' -C myc

$ peer chaincode invoke -n mycc -c '{"Args":["initMarble","marble1","blue","
```

```
35","tom"]}]}' -C myc
```

```
$ peer chaincode invoke -n mycc -c '{"Args":["initMarble","marble2","red","50","tom"]}]}' -C myc
```

```
$ peer chaincode invoke -n mycc -c '{"Args":["initMarble","marble3","blue","70","tom"]}]}' -C myc
```

```
$ peer chaincode query -n mycc -c '{"Args":["readMarble","marble1"]}]}' -C myc
```

```
$ peer chaincode invoke -n mycc -c '{"Args":["transferMarble","marble2","jerry"]}]}' -C myc
```

```
$ peer chaincode query -n mycc -c '{"Args":["readMarble","marble2"]}]}' -C myc
```

```
$ peer chaincode invoke -n mycc -c '{"Args":["deleteMarble","marble1"]}]}' -C myc
```

```
$ peer chaincode query -n mycc -c '{"Args":["getMarblesByRange","marble1","marble3"]}]}' -C myc
```

```
$ peer chaincode query -n mycc -c '{"Args":["getHistoryForMarble","marble1"]}]}' -C myc
```

```
$ peer chaincode query -n mycc -c '{"Args":["queryMarblesByOwner","tom"]}]}' -C myc
```

富查询报错

富查询需要配置 CouchDB

chaincode for develop 配置 CouchDB

修改 chaincode-docker-devmode/docker-compose-simple.yaml 配置

```
# peer 加入如下配置
```

```
environment:
```

```
# 添加以下内容
```

- CORE_LEDGER_STATE_STATEDATABASE=CouchDB
- CORE_LEDGER_STATE_COUCHDBCONFIG_COUCHDBADDRESS=couchdb:5984
- CORE_LEDGER_STATE_COUCHDBCONFIG_USERNAME=
- CORE_LEDGER_STATE_COUCHDBCONFIG_PASSWORD=

depends_on:

- orderer
- couchdb

couchdb:

container_name: couchdb

image: hyperledger/fabric-couchdb

Populate the COUCHDB_USER and COUCHDB_PASSWORD to **set an admin user and password**

for CouchDB. This will prevent CouchDB **from** operating **in** an **"Admin Party" mode.**

environment:

- COUCHDB_USER=
- COUCHDB_PASSWORD=

ports:

- 5984:5984

```
ports:
  - 7050:7050
peer:
  container_name: peer
  image: hyperledger/fabric-peer
  environment:
    - CORE_PEER_ID=peer
    - CORE_PEER_ADDRESS=peer:7051
    - CORE_PEER_GOSSIP_EXTERNALENDPOINT=peer:7051
    - CORE_PEER_LOCALMSPID=DEFAULT
    - CORE_VM_ENDPOINT=unix:///host/var/run/docker.sock
    - CORE_LOGGING_LEVEL=DEBUG
    - CORE_PEER_MSPCONFIGPATH=/etc/hyperledger/msp
    - CORE_LEDGER_STATE_STATEDATABASE=CouchDB
    - CORE_LEDGER_STATE_COUCHDBCONFIG_COUCHDBADDRESS=couchdb:5984
    - CORE_LEDGER_STATE_COUCHDBCONFIG_USERNAME=
    - CORE_LEDGER_STATE_COUCHDBCONFIG_PASSWORD=
  volumes:
    - /var/run/:/host/var/run/
    - ./msp:/etc/hyperledger/msp
  working_dir: /opt/gopath/src/github.com/hyperledger/fabric/peer
  command: peer node start --peer-chaincodedev=true -o orderer:7050
  ports:
    - 7051:7051
    - 7053:7053
  depends_on:
    - orderer
    - couchdb
```

```
couchdb:
  container_name: couchdb
  image: hyperledger/fabric-couchdb
  # Populate the COUCHDB_USER and COUCHDB_PASSWORD to set an admin user and p
  # for CouchDB. This will prevent CouchDB from operating in an "Admin Party
  environment:
    - COUCHDB_USER=
    - COUCHDB_PASSWORD=
  ports:
    - 5984:5984
```