

## helloworld

笔记本: 我的第一个链码helloworld

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本文的链码搭建是基于深蓝居的深入理解fabric详细搭建过程的博客中

(<https://www.cnblogs.com/studyzy/p/7451276.html>)

将链码安装那个环节安装的chaincode\_example02链码替换为这里写好的chaincode\_example\_helloworld

(说明chaincode\_example02是一个余额调用, 涉及两个节点的查询调用, 这里自己写的chaincode\_example\_helloworld是一个修改字符串的链码, 所以不涉及多个节点, 只是单个节点的修改查询, 操作过程中这点需要注意)

安装链码部分修改

```
peer chaincode install -n mycc -v 1.0 -p
```

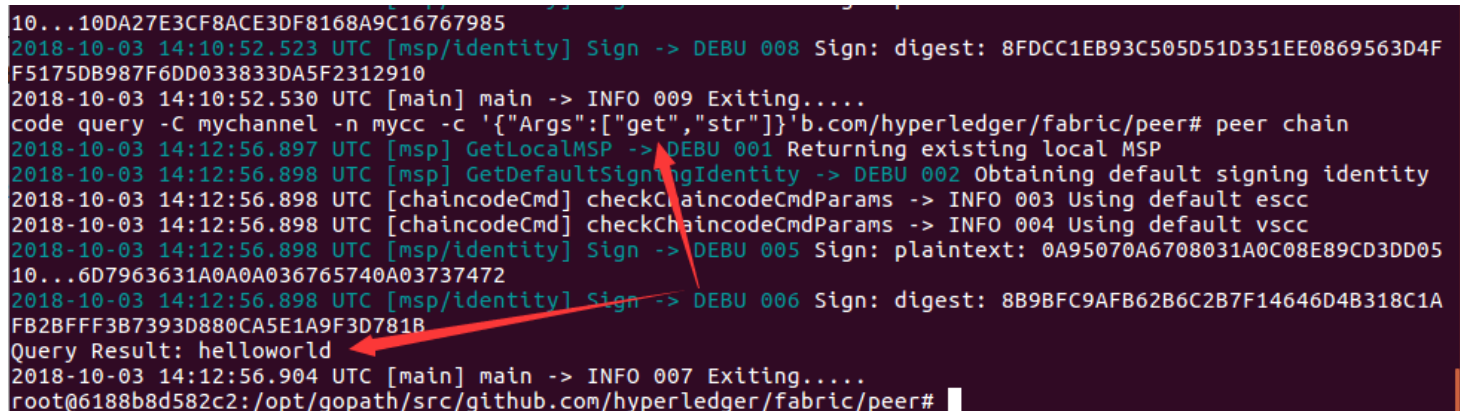
```
github.com/hyperledger/examples/chaincode/go/chaincode_example_helloworld
```

实例化链码部分修改

```
peer chaincode instantiate -o orderer.example.com:7050 --tls true  
--cafile $ORDERER_CA -C mychannel -n mycc -v 1.0 -c '{"Args":  
["str","helloworld"]}'
```

查询链码部分修改

```
peer chaincode query -C mychannel -n mycc -c '{"Args":  
["get","str"]}'
```



```
10...10DA27E3CF8ACE3DF8168A9C16767985  
2018-10-03 14:10:52.523 UTC [msp/identity] Sign -> DEBU 008 Sign: digest: 8FDCC1EB93C505D51D351EE0869563D4F  
F5175DB987F6DD033833DA5F2312910  
2018-10-03 14:10:52.530 UTC [main] main -> INFO 009 Exiting....  
code query -C mychannel -n mycc -c '{"Args":["get","str"]}'b.com/hyperledger/fabric/peer# peer chain  
2018-10-03 14:12:56.897 UTC [msp] GetLocalMSP -> DEBU 001 Returning existing local MSP  
2018-10-03 14:12:56.898 UTC [msp] GetDefaultSigningIdentity -> DEBU 002 Obtaining default signing identity  
2018-10-03 14:12:56.898 UTC [chaincodeCmd] checkChaincodeCmdParams -> INFO 003 Using default escc  
2018-10-03 14:12:56.898 UTC [chaincodeCmd] checkChaincodeCmdParams -> INFO 004 Using default vscc  
2018-10-03 14:12:56.898 UTC [msp/identity] Sign -> DEBU 005 Sign: plaintext: 0A95070A6708031A0C08E89CD3DD05  
10...6D7963631A0A0A036765740A03737472  
2018-10-03 14:12:56.898 UTC [msp/identity] Sign -> DEBU 006 Sign: digest: 8B98FC9AFB62B6C2B7F14646D4B318C1A  
FB2BFFF3B7393D880CA5E1A9F3D7818  
Query Result: helloworld  
2018-10-03 14:12:56.904 UTC [main] main -> INFO 007 Exiting....  
root@6188b8d582c2:/opt/gopath/src/github.com/hyperledger/fabric/peer#
```

链码的调用 (这里是用链码中编写的一个set方法改变str的参数值)

```
peer chaincode invoke -o orderer.example.com:7050 --tls true --  
cafile $ORDERER_CA -C mychannel -n mycc -c '{"Args":  
["set","str","helloworld_caisongjian"]}'
```

```
peer chaincode query -C mychannel -n mycc -c '{"Args":  
["get","str"]}'
```

```
2018-10-03 14:17:34.647 UTC [chaincodeCmd] chaincodeInvokeOrQuery -> DEBU 009 ESCC invoke result: version:1
response:<status:200 message:"OK" > payload:"\n\025\310\376t\214\301\4m\367\273\022.c0me\235H\211#\357\
\034M\310h\2503\363\244\022S\n?\022\024\n\004lsc\022\014\n\n\n\004mycc\022\002\010\003\022'\n\004mycc\022\0
37\032\035\n\003str\032\026helloworld_caisongjian\032\003\010\310\001"\013\022\004mycc\032\0031.0" endorse
ment:<endorser:"\n\0070rgiMSP\022\374\005-----BEGIN -----\nMIIcGDCCAB+gAwIBAgIQRv5gKJ8c7FEtNb9pjk1o6zAKBggq
hkjOPQDAjBZMQsw\ncQYDVQGEWJVUZEtmBEGA1UECBMkQ2FsaWZvcms5PyTEWMBQGA1UEBwMNU2FuIEZy\n\nYW5jaXNjbzEZMBcGA1UEChM
Qb3JnM5leGfGtcGxLLmNvbTETMB0GA1UEAxM5b3JnM55leGfGtcGxLLmNvbTAEFw0xODFMDMxMzU0MjhaFw0yODASMzAxMzU0Mjha
\nMFsxZCZAJBgNVBAYTALVTRMRWEEQYDVQIEWpDYWxpZm9ybmhLMRYwFAYDVQQHEW1T\n\nYW4gRnJhbmNpc2NvMVR8wHQYDVQQDEXZwZWVvMC5
vcmcxLmV4YW1wbGUuYy29tMFkw\n\nEwYHKoZIzj0CAQYIKoZIzj0DAQDcDQgAEVaUxqBrhu6kxw5wiLumrNUuWou8MxXWx\n\n\013FuDDhesQLoM00
sJQRPgPYy3A54PM09huutCFw3MaPMoc+X8G7bySKNNMEswDgYD\n\n\nVR0PAAQH/BAQDAgeAMAwGA1UdEwEB\n\n/wQCMAAwKwYDVR0jBCQWtoAguTj
krEJ3Yb4S\n\n\08k1Ili1+VkeFka+GdnMfN2A+obTkVpEwCgYIKoZIzj0EAwIDRwAwRAIgGpPcl13\n\n\n5nv4aA7e4xun0n06GctKuCaED0ULIq
zLTh8CIeZET8kLhC8zSW6VDGJ9BMPHMSnE7\n\n\nnuqM2TrOqc3/bWvB6\n\n\n-----END -----
\n" signature:"0E\002\1\000\202\2161n\32
08\264\360\374\312\017C\n\n\n261\324\203s\243\341\017\364E%\001\255\213*\343\371\354u\002
f\037\354d\253.\030
\227\330\344J\362\262\340nf\021\241'n<\2174\206\214\304\210\342\207\030\354" >
2018-10-03 14:17:34.648 UTC [chaincodeCmd] chaincodeInvokeOrQuery -> INFO 00a Chaincode invoke successful.
result: status:200
2018-10-03 14:17:34.648 UTC [main] main -> INFO 00b Exiting....
code query -C mychannel -n mycc -c '{"Args":["get","str"]}'b.com/hyperledger/fabric/peer# peer chain
2018-10-03 14:19:12.217 UTC [msp] GetLocalMSP -> DEBU 001 Returning existing local MSP
2018-10-03 14:19:12.218 UTC [msp] GetDefaultSigningIdentity -> DEBU 002 Obtaining default signing identity
2018-10-03 14:19:12.218 UTC [chaincodeCmd] checkChaincodeCmdParams -> INFO 003 Using default escc
2018-10-03 14:19:12.218 UTC [chaincodeCmd] checkChaincodeCmdParams -> INFO 004 Using default vscc
2018-10-03 14:19:12.218 UTC [msp/identity] Sign -> DEBU 005 Sign: plaintext: 0A94070A6608031A0B08E09FD3DD05
10...6D7963631A0A0A036765740A03737472
2018-10-03 14:19:12.218 UTC [msp/identity] Sign -> DEBU 006 Sign: digest: F51F177A970F557D52271E793128337FF
F3F23E2744CE14D43701E618101F68E
Query Result: helloword_caisongjian
2018-10-03 14:19:12.225 UTC [main] main -> INFO 007 Exiting....
root@6188b8d582c2:/opt/gopath/src/github.com/hyperledger/fabric/peer#
```