

Steps to up and run the property registration network

- Startup the network - `./network.sh up`

```

1 peer0.org1.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was r[=] Running 5/12
# Network fabric_test
# Volume "compose_orderer.example.com" Created 0.0s
# Volume "compose_peer0.org1.example.com" Created 0.0s
# Volume "compose_peer0.org2.example.com" Created 0.0s
# Container orderer.example.com Starting 0.4s
# Container peer0.org1.example.com Starting 0.4s
# Container peer0.org2.example.com Starting 0.4s
1 peer0.org1.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was r[=] Running 5/12
# Network fabric_test
# Volume "compose_orderer.example.com" Created 0.0s
# Volume "compose_peer0.org1.example.com" Created 0.0s
# Volume "compose_peer0.org2.example.com" Created 0.0s
# Container orderer.example.com Starting 0.5s
# Container peer0.org1.example.com Starting 0.5s
# Container peer0.org2.example.com Starting 0.5s
1 peer0.org1.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was r[=] Running 6/12
# Network fabric_test
# Volume "compose_orderer.example.com" Created 0.0s
# Volume "compose_peer0.org1.example.com" Created 0.0s
# Volume "compose_peer0.org2.example.com" Created 0.0s
# Container orderer.example.com Starting 0.6s
# Container peer0.org1.example.com Starting 0.6s
# Container peer0.org2.example.com Starting 0.6s
1 peer0.org1.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was r[=] Running 6/12
# Network fabric_test
# Volume "compose_orderer.example.com" Created 0.0s
# Volume "compose_peer0.org1.example.com" Created 0.0s
# Volume "compose_peer0.org2.example.com" Created 0.0s
# Container orderer.example.com Starting 0.7s
# Container peer0.org1.example.com Starting 0.7s
# Container peer0.org2.example.com Starting 0.7s
1 peer0.org1.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was r[=] Running 7/12
# Network fabric_test
# Volume "compose_orderer.example.com" Created 0.0s
# Volume "compose_peer0.org1.example.com" Created 0.0s
# Volume "compose_peer0.org2.example.com" Created 0.0s
# Container orderer.example.com Starting 0.8s
# Container peer0.org1.example.com Starting 0.8s
# Container peer0.org2.example.com Starting 0.8s
1 peer0.org1.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was r[=] Running 7/12
# Network fabric_test
# Volume "compose_orderer.example.com" Created 0.0s
# Volume "compose_peer0.org1.example.com" Created 0.0s
# Volume "compose_peer0.org2.example.com" Created 0.0s
# Container orderer.example.com Starting 0.9s
# Container peer0.org1.example.com Starting 0.9s
# Container peer0.org2.example.com Starting 0.9s
1 peer0.org1.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was r[=] Running 8/12
# Network fabric_test
# Volume "compose_orderer.example.com" Created 0.0s
# Volume "compose_peer0.org1.example.com" Created 0.0s
# Volume "compose_peer0.org2.example.com" Created 0.0s
# Container orderer.example.com Starting 0.9s
# Container peer0.org1.example.com Starting 0.9s
# Container peer0.org2.example.com Starting 0.9s
1 peer0.org1.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was requested
# Container orderer.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was requested
# Container peer0.org1.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was requested
# Container peer0.org2.example.com The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was requested
# Container all Running 0.0s
1 cli The requested image's platform (linux/amd64) does not match the detected host platform (linux/arm64/v8) and no specific platform was requested
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
a45e29279a1 hyperledger/fabric-tools:latest "/bin/bash" 1 second ago Up Less than a second 0.0.0.0:9445->9445/tcp peer0.org2.example.com
a277f6c9890 hyperledger/fabric-orderer:latest "peer node start" 1 second ago Up Less than a second 0.0.0.0:7050->7050/tcp, 0.0.0.0:7053->7053/tcp, 0.0.0.0:9443->9443/tcp orderer.example.com
a42e6ef7fab9 hyperledger/fabric-peer:latest "peer node start" 1 second ago Up Less than a second 0.0.0.0:7051->7051/tcp, 0.0.0.0:9444->9444/tcp peer0.org1.example.com

```

- Create a channel – `/network.sh createChannel`

[illegible]

- Install/deploy the chaincode - `./network.sh deployCC -ccn propregnet -ccl javascript -ccp ../chaincode -ccv 1 -ccs 1 -cci instantiate`

```

2023-03-21 06:14:03.430 PDT 0001 INFO [chaincodeCmd] ClientWait -> txid [de33205d47d3c982fa007de24c8ad6a772cddb4965aa6bb009cf626e1723479ee] committed with status (VALID) at localhost:9051
Chaincode definition approved on peer0.org2 on channel 'mychannel'
Using organization 1
Checking the commit readiness of the chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org1, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name propregnet --version 1 --sequence 1 --init-required --output json
+ res=0
{
  "approvals": {
    "Org1MSP": true,
    "Org2MSP": true
  }
}
Checking the commit readiness of the chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Checking the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name propregnet --version 1 --sequence 1 --init-required --output json
+ res=0
{
  "approvals": {
    "Org1MSP": true,
    "Org2MSP": true
  }
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrg
anizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-ne
twork/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-netwo
rk/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1 --sequence 1 --init-required
+ res=0
2023-03-21 06:14:11.952 PDT 0001 INFO [chaincodeCmd] ClientWait -> txid [7fe4d7cea9037f84e315385896aa08790b858a13b4c55741504e1b752e68f6ff] committed with status (VALID) at localhost:9051
2023-03-21 06:14:11.951 PDT 0002 INFO [chaincodeCmd] ClientWait -> txid [7fe4d7cea9037f84e315385896aa08790b858a13b4c55741504e1b752e68f6ff] committed with status (VALID) at localhost:7051
Chaincode definition committed on channel 'mychannel'
Using organization 1
Querying chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to Query committed status on peer0.org1, Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vsc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Querying chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to Query committed status on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vsc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ fcn_call={"function":"instantiate","Args":[]}
+ infoIn 'invoke fcn call:{"function":"instantiate","Args":[]}'
+ printIn '\033[0;34minvoke fcn call:{"function":"instantiate","Args":[]}033[0m'
+ echo -e '\033[0;34minvoke fcn call:{"function":"instantiate","Args":[]}033[0m'
invoke fcn call:{"function":"instantiate","Args":[]}
+ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations
/example.com/tlsca/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/pee
rOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOr
ganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --isInit -c '{"function":"instantiate","Args":[]}'
+ res=0
2023-03-21 06:14:19.011 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
Invoke transaction successful on peer0.org1 peer0.org2 on channel 'mychannel'
thomasyirgetu@Thomass-MacBook-Pro test-network %

```

- Invoke requestNewUser function - peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile `${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem` -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles `${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt` --peerAddresses localhost:9051 --tlsRootCertFiles `${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt` -c '{"function": "User:requestNewUser", "Args": ["Gaurav", "gaurav.sit01@gmail.com", "714-829-7869", "1234"]}'


```

+ res=0
{
  "approvals": {
    "Org1MSP": true,
    "Org2MSP": true
  }
}
Checking the commit readiness of the chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Checking the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org2. Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name propregnet --version 1 --sequence 1 --init-required --output json
+ res=0
{
  "approvals": {
    "Org1MSP": true,
    "Org2MSP": true
  }
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1 --sequence 1 --init-required
+ res=0
2023-03-21 06:27:17.756 PDT 0001 INFO [chaincodeCmd] ClientWait -> txid [236371d1be7d2f87ad5aa650cf8b095866617d785b749c1a920f772644e72692] committed with status (VALID) at localhost:9051
2023-03-21 06:27:17.756 PDT 0002 INFO [chaincodeCmd] ClientWait -> txid [236371d1be7d2f87ad5aa650cf8b095866617d785b749c1a920f772644e72692] committed with status (VALID) at localhost:7051
Chaincode definition committed on channel 'mychannel'
Using organization 1
Querying chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to Query committed status on peer0.org1. Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: escv, Validation Plugin: vscv, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Querying chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to Query committed status on peer0.org2. Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: escv, Validation Plugin: vscv, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ fcn_call="{\"function\":\"instantiate\",\"Args\":[]}"
+ infoIn 'invoke fcn call:{\"function\":\"instantiate\",\"Args\":[]}'
+ printIn '033[0;34minvoke fcn call:{\"function\":\"instantiate\",\"Args\":[]}\033[0m'
+ echo -e '033[0;34minvoke fcn call:{\"function\":\"instantiate\",\"Args\":[]}\033[0m'
invoke fcn call:{\"function\":\"instantiate\",\"Args\":[]}
+ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --isInit -c '{"function": "instantiate", "Args": []}'
+ res=0
2023-03-21 06:27:24.312 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
Invoke transaction successful on peer0.org1 peer0.org2 on channel 'mychannel'
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:requestNew User", "Args": [{"Thomas", "tom.dibo@gmail.com", "714-829-6522", "1234"}]}'
2023-03-21 06:27:46.894 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{\"name\":\"Thomas\", \"email\":\"tom.dibo@gmail.com\", \"phone\":\"714-829-6522\", \"ssn\":\"1234\", \"createdAt\":\"2023-03-21T13:27:46.000Z\"}
thomasyirgetu@Thomass-MacBook-Pro test-network %

```

- Invoke approveNewUser function - peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile \${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles

```
${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles  
${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c  
'{"function": "Admin:approveNewUser", "Args": ["Gaurav", "1234"]}]'
```

```
}  
Checking the commit readiness of the chaincode definition successful on peer0.org1 on channel 'mychannel'  
Using organization 2  
Checking the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...  
Attempting to check the commit readiness of the chaincode definition on peer0.org2, Retry after 3 seconds.  
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name propregnet --version 1 --sequence 1 --init-required --output json  
+ res=0  
{  
  "approvals": {  
    "Org1MSP": true,  
    "Org2MSP": true  
  }  
}  
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'  
Using organization 1  
Using organization 2  
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1 --sequence 1 --init-required  
+ res=0  
2023-03-21 06:27:17.756 PDT 0001 INFO [chaincodeCmd] ClientWait -> txid [236371d1be7d2f87ad5aa650cf8b095866617d705b749c1a920f772644e72692] committed with status (VALID) at localhost:9051  
2023-03-21 06:27:17.756 PDT 0002 INFO [chaincodeCmd] ClientWait -> txid [236371d1be7d2f87ad5aa650cf8b095866617d705b749c1a920f772644e72692] committed with status (VALID) at localhost:7051  
Chaincode definition committed on channel 'mychannel'  
Using organization 1  
Querying chaincode definition on peer0.org1 on channel 'mychannel'...  
Attempting to Query committed status on peer0.org1, Retry after 3 seconds.  
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet  
+ res=0  
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':  
Version: 1, Sequence: 1, Endorsement Plugin: escv, Validation Plugin: vscv, Approvals: [Org1MSP: true, Org2MSP: true]  
Query chaincode definition successful on peer0.org1 on channel 'mychannel'  
Using organization 2  
Querying chaincode definition on peer0.org2 on channel 'mychannel'...  
Attempting to Query committed status on peer0.org2, Retry after 3 seconds.  
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet  
+ res=0  
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':  
Version: 1, Sequence: 1, Endorsement Plugin: escv, Validation Plugin: vscv, Approvals: [Org1MSP: true, Org2MSP: true]  
Query chaincode definition successful on peer0.org2 on channel 'mychannel'  
Using organization 1  
Using organization 2  
+ fen_call='{"function": "instantiate", "Args": []}'  
+ infoIn 'invoke fen call: {"function": "instantiate", "Args": []}'  
+ printIn '\033[0;34minvoke fen call: {"function": "instantiate", "Args": []}\033[0m'  
+ echo -e '\033[0;34minvoke fen call: {"function": "instantiate", "Args": []}\033[0m'  
invoke fen call: {"function": "instantiate", "Args": []}  
+ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --isInit -c '{"function": "instantiate", "Args": []}'  
+ res=0  
2023-03-21 06:27:24.312 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200  
Invoke transaction successful on peer0.org1 peer0.org2 on channel 'mychannel'  
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:requestNewUser", "Args": ["Thomas", "tom.dibo@gmail.com", "714-829-6522", "1234"]}'  
2023-03-21 06:27:46.894 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name": "Thomas", "email": "tom.dibo@gmail.com", "phone": "714-829-6522", "ssn": "1234", "createdAt": "2023-03-21T13:27:46.000Z"}  
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "Admin:approveNewUser", "Args": ["Thomas", "1234"]}'  
2023-03-21 06:33:16.385 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name": "Thomas", "ssn": "1234", "email": "tom.dibo@gmail.com", "phone": "714-829-6522", "createdAt": "2023-03-21T13:27:46.000Z", "upgradCoins": 0}  
thomasyirgetu@Thomass-MacBook-Pro test-network %
```


- Invoke rechargeAccount function - peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile \${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles \${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles \${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:rechargeAccount", "Args": ["Gaurav", "1234", "upg1000"]}'

```
+ res=0
{
  "approvals": {
    "Org1MSP": true,
    "Org2MSP": true
  }
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1 --sequence 1 --init-required
+ res=0
2023-03-21 06:27:17.754 PDT 0001 INFO [chaincodeCmd] ClientWait -> txid [236371d1be7d2f87ad5aa658cf8b095866617d785b749c1a920f772644e72692] committed with status (VALID) at localhost:9051
2023-03-21 06:27:17.754 PDT 0002 INFO [chaincodeCmd] ClientWait -> txid [236371d1be7d2f87ad5aa658cf8b095866617d785b749c1a920f772644e72692] committed with status (VALID) at localhost:7051
Chaincode definition committed on channel 'mychannel'
Using organization 1
Querying chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to Query committed status on peer0.org1, Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: escv, Validation Plugin: vscv, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Querying chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to Query committed status on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: escv, Validation Plugin: vscv, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ fcn call={"function":"instantiate","Args":[]}
+ infoIn invoke fcn call={"function":"instantiate","Args":[]}
+ println "\033[0;34minvoke fcn call:{\"function\":\"instantiate\",\"Args\":[]}\033[0m"
+ echo -e "\033[0;34minvoke fcn call:{\"function\":\"instantiate\",\"Args\":[]}\033[0m"
Invoke fcn call:{\"function\":\"instantiate\",\"Args\":[]}
+ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --isInit -c '{"function": "instantiate", "Args": []}'
+ res=0
2023-03-21 06:27:24.312 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
Invoke transaction successful on peer0.org1 peer0.org2 on channel 'mychannel'
thomasyirgetu@Thomas-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:rechargeAccount", "Args": ["Thomas", "tom.dibo@gmail.com", "714-829-6522", "1234"]}'
2023-03-21 06:27:46.894 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{\"name\":\"Thomas\", \"email\":\"tom.dibo@gmail.com\", \"phone\":\"714-829-6522\", \"ssn\":\"1234\", \"createdAt\":\"2023-03-21T13:27:46.800Z\", \"upgradCoins\":0}
thomasyirgetu@Thomas-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "Admin:approveNewUser", "Args": ["Thomas", "1234"]}'
2023-03-21 06:33:16.395 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{\"name\":\"Thomas\", \"ssn\":\"1234\", \"email\":\"tom.dibo@gmail.com\", \"phone\":\"714-829-6522\", \"createdAt\":\"2023-03-21T13:27:46.800Z\", \"upgradCoins\":0}
thomasyirgetu@Thomas-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:rechargeAccount", "Args": ["Thomas", "1234", "upg1000"]}'
2023-03-21 06:41:00.765 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{\"name\":\"Thomas\", \"ssn\":\"1234\", \"email\":\"tom.dibo@gmail.com\", \"phone\":\"714-829-6522\", \"createdAt\":\"2023-03-21T13:27:46.800Z\", \"upgradCoins\":1000}
thomasyirgetu@Thomas-MacBook-Pro test-network %
```

```
Invoke viewUser function - peer chaincode invoke -o localhost:7050 --  
ordererTLSHostnameOverride orderer.example.com --tls true --cafile  
${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer  
.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n  
propregnet --peerAddresses localhost:7051 --tlsRootCertFiles  
${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.or  
g1.example.com/tls/ca.crt --peerAddresses localhost:9051 --  
tlsRootCertFiles  
${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.or  
g2.example.com/tls/ca.crt -c  
'{"function": "User:viewUser", "Args": ["Gaurav", "1234"]}'
```

```

}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrg
anizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-ne
twork/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-netwo
rk/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1 --sequence 1 --init-required
+ res=0
2023-03-21 06:27:17.756 PDT 0001 INFO [chaincodeCmd] ClientWait -> txid [236371d1be7d2f87ad5aa650cf8b095866617d705b749c1a920f772644e72692] committed with status (VALID) at localhost:9051
2023-03-21 06:27:17.756 PDT 0002 INFO [chaincodeCmd] ClientWait -> txid [236371d1be7d2f87ad5aa650cf8b095866617d705b749c1a920f772644e72692] committed with status (VALID) at localhost:7051
Chaincode definition committed on channel 'mychannel'
Using organization 1
Querying chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to Query committed status on peer0.org1. Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: esc, Validation Plugin: vsc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Querying chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to Query committed status on peer0.org2. Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: esc, Validation Plugin: vsc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ fcn_call={"function":"instantiate","Args":{}}
+ infoIn 'invoke fcn call:{"function":"instantiate","Args":{}}'
+ printIn '\033[0;34minvoke fcn call:{"function":"instantiate","Args":{}}\033[0m'
+ echo -e '\033[0;34minvoke fcn call:{"function":"instantiate","Args":{}}\033[0m'
+ invoke fcn call:{"function":"instantiate","Args":{}}
+ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations
/example.com/tlsca/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerO
rganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOr
ganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --isinit -c '{"function":"instantiate","Args":{}}'
+ res=0
2023-03-21 06:27:24.312 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
Invoke transaction successful on peer0.org1 peer0.org2 on channel 'mychannel'
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"User:requestNew
User","Args":{"Thomas","tom.dibo@gmail.com","714-829-6522","1234"}}'
2023-03-21 06:27:44.894 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"Thomas","email":"tom.dibo@gmail.com","phone":"714-829-65
22","ssn":"1234","createdAt":"2023-03-21T13:27:46.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"Admin:approveNe
wUser","Args":{"Thomas","1234"}}'
2023-03-21 06:33:16.305 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"Thomas","ssn":"1234","email":"tom.dibo@gmail.com","pho
ne":"714-829-6522","createdAt":"2023-03-21T13:27:46.000Z","upgradCoins":0}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"User:rechargeAc
count","Args":{"Thomas","1234","upg0000"}}'
2023-03-21 06:43:31.760 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"Thomas","ssn":"1234","email":"tom.dibo@gmail.com","pho
ne":"714-829-6522","createdAt":"2023-03-21T13:27:46.000Z","upgradCoins":1000}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"User:viewUser",
"Args":{"Thomas","1234"}}'
2023-03-21 06:45:00.150 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"Thomas","ssn":"1234","email":"tom.dibo@gmail.com","pho
ne":"714-829-6522","createdAt":"2023-03-21T13:27:46.000Z","upgradCoins":1000}
thomasyirgetu@Thomass-MacBook-Pro test-network %

```

- Invoke propertyRegistrationRequest function - peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com - -tls true --cafile \${PWD}/organizations/ordererOrganizations/example.com/orderers/or derer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --


```
tlsRootCertFiles
${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --
tlsRootCertFiles
${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c
'{"function": "User:propertyRegistrationRequest", "Args": ["001", "Ga
urav", "1234", "400", "onSale"]}'
```

```
work/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-netwo
rk/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1 --sequence 1 --init-required
+ res=0
2023-03-21 06:27:17.756 PDT 0001 INFO [chaincodeCmd] ClientWait -> txid [236371d1be7d2f87ad5aa650cf8b095866617d705b749c1a920f772644e72692] committed with status (VALID) at localhost:9051
2023-03-21 06:27:17.756 PDT 0002 INFO [chaincodeCmd] ClientWait -> txid [236371d1be7d2f87ad5aa650cf8b095866617d705b749c1a920f772644e72692] committed with status (VALID) at localhost:7051
Chaincode definition committed on channel 'mychannel'
Using organization 1
Querying chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to Query committed status on peer0.org1, Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: esc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Querying chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to Query committed status on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: esc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ fcn_call='{"function": "instantiate", "Args": []}'
+ infoIn 'invoke fcn call: {"function": "instantiate", "Args": []}'
+ printIn '\033[0;34minvoke fcn call: {"function": "instantiate", "Args": []}\033[0m'
+ echo -e '\033[0;34minvoke fcn call: {"function": "instantiate", "Args": []}\033[0m'
invoke fcn call: {"function": "instantiate", "Args": []}
+ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations
/example.com/tlsca/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peer
Organizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOr
ganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --isInit -c '{"function": "instantiate", "Args": []}'
+ res=0
2023-03-21 06:27:24.312 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
Invoke transaction successful on peer0.org1 peer0.org2 on channel 'mychannel'
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:requestNew
User", "Args": ["Thomas", "tom.dibo@gmail.com", "714-829-6522", "1234"]}'
2023-03-21 06:27:46.894 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name": "Thomas", "email": "tom.dibo@gmail.com", "phone": "714-829-65
22", "ssn": "1234", "createdAt": "2023-03-21T13:27:46.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "Admin:approveNe
wUser", "Args": ["Thomas", "1234"]}'
2023-03-21 06:33:16.305 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name": "Thomas", "ssn": "1234", "email": "tom.dibo@gmail.com", "pho
ne": "714-829-6522", "createdAt": "2023-03-21T13:27:46.000Z", "upgradCoins": 0}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:rechargeAc
count", "Args": ["Thomas", "1234", "upg1000"]}'
2023-03-21 06:41:31.766 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name": "Thomas", "ssn": "1234", "email": "tom.dibo@gmail.com", "pho
ne": "714-829-6522", "createdAt": "2023-03-21T13:27:46.000Z", "upgradCoins": 1000}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:viewUser",
"Args": ["Thomas", "1234"]}'
2023-03-21 06:45:00.158 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name": "Thomas", "ssn": "1234", "email": "tom.dibo@gmail.com", "pho
ne": "714-829-6522", "createdAt": "2023-03-21T13:27:46.000Z", "upgradCoins": 1000}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:propertyRe
gistrationRequest", "Args": ["001", "Thomas", "1234", "400", "onSale"]}'
2023-03-21 06:54:33.344 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"propertyId": "001", "owner": "\u0000User\u0000Thomas\u00001234\u00
00", "price": "400", "status": "onSale", "createdAt": "2023-03-21T13:54:33.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network %
```

```
Invoke approvePropertyRegistration function - peer chaincode invoke -o
localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls
true --cafile
${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer
.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n
propregnet --peerAddresses localhost:7051 --tlsRootCertFiles
${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.or
g1.example.com/tls/ca.crt --peerAddresses localhost:9051 --
tlsRootCertFiles
${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.or
g2.example.com/tls/ca.crt -c
'{"function": "Admin:approvePropertyRegistration", "Args": ["001"]}'
```

```
Version: 1, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vsc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Querying chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to Query committed status on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vsc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ fcn_call:{"function": "instantiate", "Args": []}
+ infoIn invoke fcn call:{"function": "instantiate", "Args": []}
+ println '\033[0;34minvoke fcn call:{"function": "instantiate", "Args": []}\033[0m'
+ echo -e '\033[0;34minvoke fcn call:{"function": "instantiate", "Args": []}\033[0m'
invoke fcn call:{"function": "instantiate", "Args": []}
+ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations
/example.com/tlsca/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerO
rganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerO
rganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --isInit -c '{"function": "instantiate", "Args": []}'
+ res=0
2023-03-21 15:36:57.239 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
Invoke transaction successful on peer0.org1 peer0.org2 on channel 'mychannel'
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:requeNew
User", "Args": ["Thomas", "tom.dibo@gmail.com", "714-829-6522", "1234"]}'
2023-03-21 15:40:56.467 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name": "Thomas", "email": "tom.dibo@gmail.com", "phone": "714-829-65
22", "ssn": "1234", "createdAt": "2023-03-21T22:40:56.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "Admin:approveNe
wUser", "Args": ["Thomas", "1234"]}'
2023-03-21 15:41:16.132 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name": "Thomas", "ssn": "1234", "email": "tom.dibo@gmail.com", "pho
ne": "714-829-6522", "createdAt": "2023-03-21T22:40:56.000Z", "upgradCoins": 0}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:viewUser",
"Args": ["Thomas", "1234"]}'
2023-03-21 15:41:35.650 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name": "Thomas", "ssn": "1234", "email": "tom.dibo@gmail.com", "pho
ne": "714-829-6522", "createdAt": "2023-03-21T22:40:56.000Z", "upgradCoins": 0}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:rechargeAc
count", "Args": ["Thomas", "1234", "upg1000"]}'
2023-03-21 15:41:59.482 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name": "Thomas", "ssn": "1234", "email": "tom.dibo@gmail.com", "pho
ne": "714-829-6522", "createdAt": "2023-03-21T22:40:56.000Z", "upgradCoins": 1000}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "User:propertyRe
gistrationRequest", "Args": ["001", "Thomas", "1234", "400", "onSale"]}'
2023-03-21 15:42:52.008 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"propertyId": "001", "owner": "\u0000User\u0000Thomas\u00001234\u000
00", "price": "400", "status": "onSale", "createdAt": "2023-03-21T22:42:51.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/
orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/p
eer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function": "Admin:approvePr
opertyRegistration", "Args": ["001"]}'
2023-03-21 15:44:18.423 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"propertyId": "001", "owner": "\u0000User\u0000Thomas\u00001234\u000
00", "price": "400", "status": "onSale", "createdAt": "2023-03-21T22:42:51.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network %
```

- Invoke viewProperty function - peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile \${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles \${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles \${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"Admin:viewProperty","Args":["001"]}'


```

Version: 1, Sequence: 1, Endorsement Plugin: esc, Validation Plugin: vsc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Querying chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to Query committed status on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode querycommitted --channelID mychannel --name propregnet
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: esc, Validation Plugin: vsc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ fcn call:{"function":"instantiate","Args":[]}
+ info: invoke fcn call:{"function":"instantiate","Args":[]}
+ print: '\033[0;34minvoke fcn call:{"function":"instantiate","Args":[]} \033[0m'
+ echo -e '\033[0;34minvoke fcn call:{"function":"instantiate","Args":[]} \033[0m'
invoke fcn call:{"function":"instantiate","Args":[]}
+ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --isInit -c '{"function":"instantiate","Args":[]}'
+ res=0
2023-03-21 15:50:35.363 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
Invoke transaction successful on peer0.org1 peer0.org2 on channel 'mychannel'
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tlsca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tlsca.crt -c '{"function":"User:requestNewUser","Args":[{"Thomas","tom.dibo@gmail.com","714-829-6522","1234"}]}'
2023-03-21 15:50:59.729 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"Thomas","email":"tom.dibo@gmail.com","phone":"714-829-6522","ssn":"1234","createdAt":"2023-03-21T22:50:59.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tlsca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tlsca.crt -c '{"function":"Admin:approveUser","Args":[{"Thomas","1234"}]}'
2023-03-21 15:51:15.788 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"Thomas","ssn":"1234","email":"tom.dibo@gmail.com","phone":"714-829-6522","createdAt":"2023-03-21T22:50:59.000Z","upgradCoins":0}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tlsca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tlsca.crt -c '{"function":"User:rechargeAccount","Args":[{"Thomas","1234","upg1000"}]}'
2023-03-21 15:51:35.442 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"Thomas","ssn":"1234","email":"tom.dibo@gmail.com","phone":"714-829-6522","createdAt":"2023-03-21T22:50:59.000Z","upgradCoins":1000}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tlsca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tlsca.crt -c '{"function":"User:viewUser","Args":[{"Thomas","1234"}]}'
2023-03-21 15:51:43.387 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"Thomas","ssn":"1234","email":"tom.dibo@gmail.com","phone":"714-829-6522","createdAt":"2023-03-21T22:50:59.000Z","upgradCoins":1000}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tlsca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tlsca.crt -c '{"function":"User:propertyRegistrationRequest","Args":[{"001","Thomas","1234","400","onSale"}]}'
2023-03-21 15:51:57.794 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"propertyId":"001","owner":"u0000User\u0000Thomas\u00001234\u0000","price":"400","status":"onSale","createdAt":"2023-03-21T22:51:57.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tlsca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tlsca.crt -c '{"function":"Admin:approvePropertyRegistration","Args":[{"001"}]}'
2023-03-21 15:52:07.438 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"propertyId":"001","owner":"u0000User\u0000Thomas\u00001234\u0000","price":"400","status":"onSale","createdAt":"2023-03-21T22:51:57.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network %

```

- `Invoke updateProperty function - peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile ${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlsacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tlsca.crt --peerAddresses localhost:9051 --tlsRootCertFiles ${PWD}/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tlsca.crt -c '{"function":"User:propertyRegistrationRequest","Args":[{"001","Thomas","1234","400","onSale"}]}'`

[illegible]

- Invoke purchaseProperty - peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile `$(PWD)/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem` -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles `$(PWD)/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt` --peerAddresses localhost:9051 --tlsRootCertFiles `$(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt` -c '{"function": "User:purchaseProperty", "Args": ["001", "Singh", "5678"]}'

```
+ res=0
Committed chaincode definition for chaincode 'propregnet' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: esc, Validation Plugin: vsc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ fcn_call={"function":"instantiate","Args":[]}
+ infoIn 'invoke fcn call:{"function":"instantiate","Args":[]}'
+ printIn '\033[0;34minvoke fcn call:{"function":"instantiate","Args":[]}033[0m'
+ echo -e '\033[0;34minvoke fcn call:{"function":"instantiate","Args":[]}033[0m'
invoke fcn call:{"function":"instantiate","Args":[]}
+ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /Users/thomasyirgetu/desktop/property-registration-network/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --isInit -c '{"function":"instantiate","Args":[]}'
+ res=0
2023-03-21 17:12:00.455 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
Invoke transaction successful on peer0.org1 peer0.org2 on channel 'mychannel'
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"User:requestNewUser","Args":["John","tom.dibo@gmail.com","714-829-7788","5678"]}'
2023-03-21 17:14:47.897 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"John","email":"tom.dibo@gmail.com","phone":"714-829-7788","ssn":"5678","createdAt":"2023-03-22T00:14:47.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"Admin:approveNewUser","Args":["John","5678"]}'
2023-03-21 17:15:08.749 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"John","ssn":"5678","email":"tom.dibo@gmail.com","phone":"714-829-7788","createdAt":"2023-03-22T00:14:47.000Z","upgradCoins":0}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"User:rechargeAccount","Args":["John","5678","upgradCoins"]}'
2023-03-21 17:15:40.465 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"John","ssn":"5678","email":"tom.dibo@gmail.com","phone":"714-829-7788","createdAt":"2023-03-22T00:14:47.000Z","upgradCoins":1000}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"User:requestNewUser","Args":["Thomas","tom.dibo@gmail.com","714-829-5690","1234"]}'
2023-03-21 17:16:14.431 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"Thomas","ssn":"1234","email":"tom.dibo@gmail.com","phone":"714-829-5690","ssn":"1234","createdAt":"2023-03-22T00:16:14.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"Admin:approveNewUser","Args":["Thomas","1234"]}'
2023-03-21 17:16:29.606 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"name":"Thomas","ssn":"1234","email":"tom.dibo@gmail.com","phone":"714-829-5690","createdAt":"2023-03-22T00:16:14.000Z","upgradCoins":0}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"User:propertyRegistrationRequest","Args":["001","Thomas","1234","400","onSale"]}'
2023-03-21 17:16:58.462 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"propertyId":"001","owner":"\u0000User\u0000Thomas\u00001234\u0000","price":"400","status":"onSale","createdAt":"2023-03-22T00:16:58.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"Admin:approvePropertyRegistration","Args":["001"]}'
2023-03-21 17:17:16.874 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"propertyId":"001","owner":"\u0000User\u0000Thomas\u00001234\u0000","price":"400","status":"onSale","createdAt":"2023-03-22T00:16:58.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network % peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls true --cafile $(PWD)/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem -C mychannel -n propregnet --peerAddresses localhost:7051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt --peerAddresses localhost:9051 --tlsRootCertFiles $(PWD)/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/ca.crt -c '{"function":"User:purchaseProperty","Args":["001","John","5678"]}'
2023-03-21 17:17:43.706 PDT 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200 payload:{"propertyId":"001","owner":"\u0000John\u00005678\u0000","status":"registered","createdAt":"2023-03-22T00:17:43.000Z"}
thomasyirgetu@Thomass-MacBook-Pro test-network %
```


