Property Registration – Hyperledger Course Assignment

Network Setup: Run the following commands to bootstrap the network: ./fabricNetwork.sh up Above command also does the generate part. So no need to run that explicitly. Run the below command to check if all containers are UP and running: docker ps -a Run below command in new terminal tab to start the chaincode container: docker exec -it chain code /bin/bash Then: npm install Then: npm run start-dev Run below command to Install & Instantiate the chaincode on the network: ./fabricNetwork install Run below command in new terminal tab to connect to cli node:

docker exec -it cli /bin/bash

Open another new terminal tab and run the above command again.

Then:

Run below commands to switch this terminal to User peer:

export CORE_PEER_LOCALMSPID=usersMSP

export CORE_PEER_ADDRESS=peer0.users.property-registration-network.com:9051

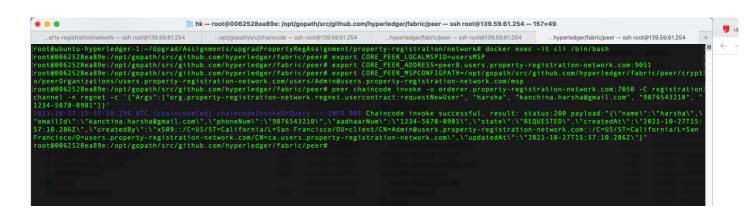
export CORE_PEER_MSPCONFIGPATH=/opt/gopath/src/github.com/hyperledger/fabric/peer/crypto/peerOrganizations/users.property-registration-network.com/users/Admin@users.property-registration-network.com/msp

Function Invocation:

Run the below commands in sequence to check the output of each function invoked as part of Property Registration Network Chaincode smart contracts:

requestNewUser:

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet.usercontract:requestNewUser", "harsha", "kanchina.harsha@gmail.com", "9876543210", "1234-5678-0981"]}'



approveNewUser: (as Registrar)

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet:approveNewUser", "harsha", "1234-5678-0981"]}'

rechargeAccount:

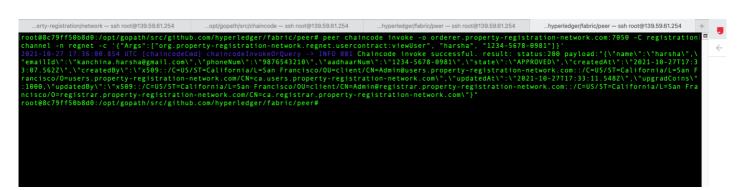
peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet.usercontract:rechargeAccount", "harsha", "1234-5678-0981", "upg1000"]}'

viewUser:

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet.usercontract:viewUser", "harsha", "1234-5678-0981"]}'

viewUser: (as Registrar)

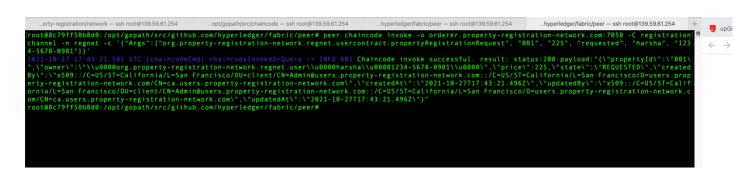
peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet:viewUser", "harsha", "1234-5678-0981"]}'



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...erty-registration/network — ssh root@139.59.61.254 | ...ptygopath/src/chaincode — ssh root@139.59.61.254 | ...hyperledger/fabric/peer # ...hyp
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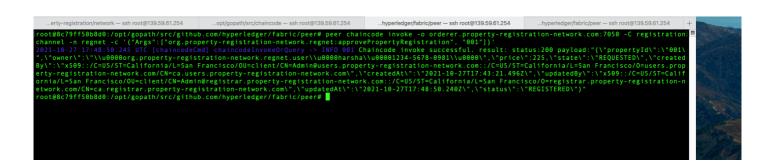
propertyRegistrationRequest:

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet.usercontract:propertyRegistrationRequest", "001", "225", "requested", "harsha", "1234-5678-0981"]}'



approvePropertyRegistration: (as Registrar)

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet:approvePropertyRegistration", "001"]}'

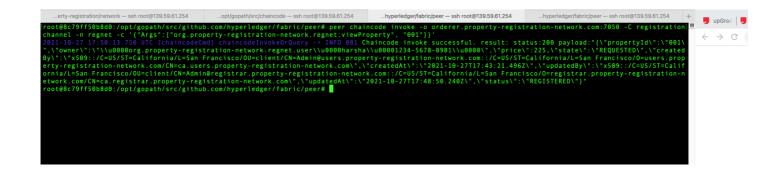


viewProperty: (as Registrar)

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet:viewProperty", "001"]}'

viewProperty:

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet.usercontract:viewProperty", "001"]}'



updateProperty:

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet.usercontract:updateProperty", "001", "onSale", "harsha", "1234-5678-0981"]}'

purchaseProperty:

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n regnet -c '{"Args":["org.property-registration-network.regnet.usercontract:purchaseProperty", "001", "Nikki", "1011-5678-0981"]}'