Bin folder is should be added to the network folder

If the access is denied to the automation scripts,

Try

# sudo chmod +x filename.sh

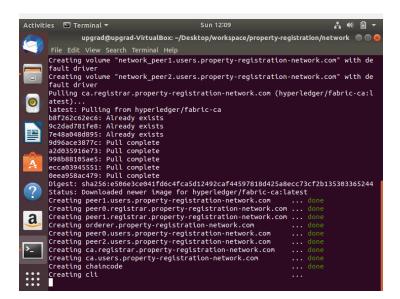
that will make the script executable

1)Start the process by generating certificates

```
./fabricNetwork.sh generate
```

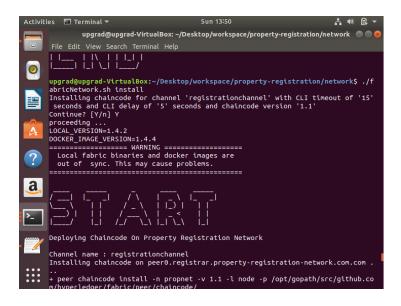
2)Start the network by using

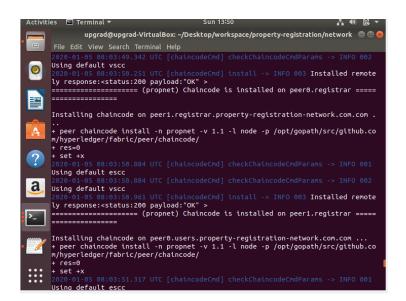
./fabricNetwork.sh up



3) once all the containers are up and running, install the certificates by using

```
./fabricNetwork.sh install
```





4)if you get error while instantiating, do it manually by using the command

SSH into the CLI container

docker exec -it cli /bin/bash

# Update the environmental variables;

CORE\_PEER\_LOCALMSPID="registrarMSP"

CORE\_PEER\_MSPCONFIGPATH/opt/gopath/src/github.com/hyperledger/fabric/peer/cry
pto/peerOrganizations/registrar.property-registrationnetwork.com/users/Admin@registrar.property-registration-network.com/msp

CORE\_PEER\_ADDRESS=peer0.registrar.property-registration-network.com:7051

#### Now instantiate using:

peer chaincode instantiate -o orderer. property-registration-network.com:7050 -C registrationchannel -n propnet -I node -v 1.1 -c '{"Args":["org. property-registration-network.propnet:instantiate"]}' -P "OR ('registrarMSP.member')"

after running screen should looks as follow

2019-09-24 10:33:20.475 UTC [chaincodeCmd] checkChaincodeCmdParams -> INFO 001 Using default escc 2019-09-24 10:33:20.477 UTC [chaincodeCmd] checkChaincodeCmdParams -> INFO 002 Using default vscc root@14dae21a166b:/opt/gopath/src/github.com/hyperledger/fabric/peer#

5) now access the functions

Request new users: open a new terminal window and

docker exec it peer0.users.property-registration-network.com /bin/bash

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationc
hannel -n propnet -c '{"Args["org. property-registration-network.propnet:requestNewUser"
,"JohnSnow","connect@JohnSnow.com","8392399242","12345678911"]}'

```
peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationc
hannel -n propnet -c '{"Args":["org.property-registration-network.propnet:requestNewUser
","Joe Barnes","connect@Joebarnes.com","8392399232","12345678910"]}'
```

#### approveNewUser:

Go to peer0 of registrar and invoke the approve user function by typing open a new terminal window and

#### docker exec it peer0.registrar.property-registration-network.com /bin/bash

```
peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationc
hannel -n propnet -c '{"Args":["org.property-registration-network.propnet: approveNewUser
","Joe Barnes","12345678910"]}'
```

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationc
hannel -n propnet -c '{"Args":["org.property-registration-network.propnet: approveNewUser
","JohnSnow","12345678911"]}'

#### rechargeAccount:

go to the peer0 of the user and invoke the rechargeAccount function by using

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationc
hannel -n propnet -c '{"Args":["org.property-registration-network.propnet: rechargeAccoun
t ","JohnSnow","12345678911","upg1000"]}'

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n propnet -c '{"Args":["org.property-registration-network.propnet:rechargeAccount","Joe Barnes","12345678910","upg1000"]}'

# propertyRegistrationRequest:

peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationchannel -n propnet -c '{"Args":["org.property-registration-network.propnet: propertyRegistrationRequest","10001","500","onSale","JohnSnow","12345678911","upg1000"]}'

### approvePropertyRegistration:

to approve the property request again go back to the terminal with peer0 of registrar open and invoke the following function

```
peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationc
hannel -n propnet -c '{"Args":["org.property-registration-network.propnet:approvePropertyR
egistration","10001"]}'
```

### updateProperty:

go back to the user peer0 to invoke the update property function using

```
peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationc
hannel -n propnet -c '{"Args":["org.property-registration-network.propnet:updateProperty",
"10001","JohnSnow","12345678911","onSale"]}'
```

# purchaseProperty

can invoke this function using the user peer0

```
peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationc
hannel -n propnet -c '{"Args":["org.property-registration-network.propnet:updateProperty",
"10001","Joe Barnes","12345678910"]}'
```

#### View user

Using this function for viewing a registered user can

```
peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationc
hannel -n propnet -c '{"Args":["org.property-registration-network.propnet:viewUser","Joe
Barnes","12345678910"]}'
```

#### viewProperty

using this function for viewing approved property

```
peer chaincode invoke -o orderer.property-registration-network.com:7050 -C registrationc
hannel -n propnet -c '{"Args":["org.property-registration-network.propnet:viewProperty","1
0001"]}'
```