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Assignment No. 3: Write and deploy a chaincode

Execute the following commands

```
cd ../../test-network

export PATH=${PWD}/../bin:$PATH

export FABRIC_CFG_PATH=$PWD/../config/

Javascript Chaincode
peer lifecycle chaincode package basic.tar.gz --path ../asset-transfer-basic/chaincode-javascript/ --lang node --label basic 1.0
```

Install Chaincode

Setup Organization 1

```
export CORE_PEER_TLS_ENABLED=true
export CORE_PEER_LOCALMSPID="Org1MSP"
export

CORE_PEER_TLS_ROOTCERT_FILE=${PWD}/organizations/peerOrganizations/org1
.example.com/peers/peer0.org1.example.com/tls/ca.crt
export

CORE_PEER_MSPCONFIGPATH=${PWD}/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp
export CORE_PEER_ADDRESS=localhost:7051
```

Setup Organization 2

```
export CORE_PEER_LOCALMSPID="Org2MSP"
export
CORE_PEER_TLS_ROOTCERT_FILE=${PWD}/organizations/peerOrganizations/org2
.example.com/peers/peer0.org2.example.com/tls/ca.crt
export
CORE_PEER_MSPCONFIGPATH=${PWD}/organizations/peerOrganizations/org2.exa
mple.com/users/Admin@org2.example.com/msp
export CORE_PEER_ADDRESS=localhost:9051

peer lifecycle chaincode install basic.tar.gz
```

Approve Chaincode

```
Get the package id
peer lifecycle chaincode queryinstalled
export CC PACKAGE ID=<Package ID>
peer lifecycle chaincode approveformyorg -o localhost:7050 --
ordererTLSHostnameOverride orderer.example.com --channelID mychannel --
name basic --version 1.0 --package-id CC_PACKAGE_ID --sequence 1 --tls
-cafile
"${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer
.example.com/msp/tlscacerts/tlsca.example.com-cert.pem"
export CORE PEER LOCALMSPID="Org1MSP"
CORE PEER MSPCONFIGPATH=${PWD}/organizations/peerOrganizations/org1.exa
mple.com/users/Admin@org1.example.com/msp
export
CORE PEER TLS ROOTCERT FILE=${PWD}/organizations/peerOrganizations/org1
.example.com/peers/peer0.org1.example.com/tls/ca.crt
export CORE PEER ADDRESS=localhost:7051
peer lifecycle chaincode approveformyorg -o localhost:7050 --
ordererTLSHostnameOverride orderer.example.com --channelID mychannel --
name basic --version 1.0 --package-id $CC PACKAGE ID --sequence 1 --tls
--cafile
"${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer
.example.com/msp/tlscacerts/tlsca.example.com-cert.pem"
```

Committing Chaincode

```
Check commit readiness peer lifecycle chaincode checkcommitreadiness --channelID mychannel -- name basic --version 1.0 --sequence 1 --tls --cafile "${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem" --output json
```

Invoke Chaincode

```
peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride
orderer.example.com --tls --cafile
"${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer
.example.com/msp/tlscacerts/tlsca.example.com-cert.pem" -C mychannel -n
basic --peerAddresses localhost:7051 --tlsRootCertFiles
"${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":"InitLedger", "Args":[]}'

peer chaincode query -C mychannel -n basic -c
'{"Args":["GetAllAssets"]}'
```



