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Class: LY IT Core

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.exa
mple.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"
export
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"
```

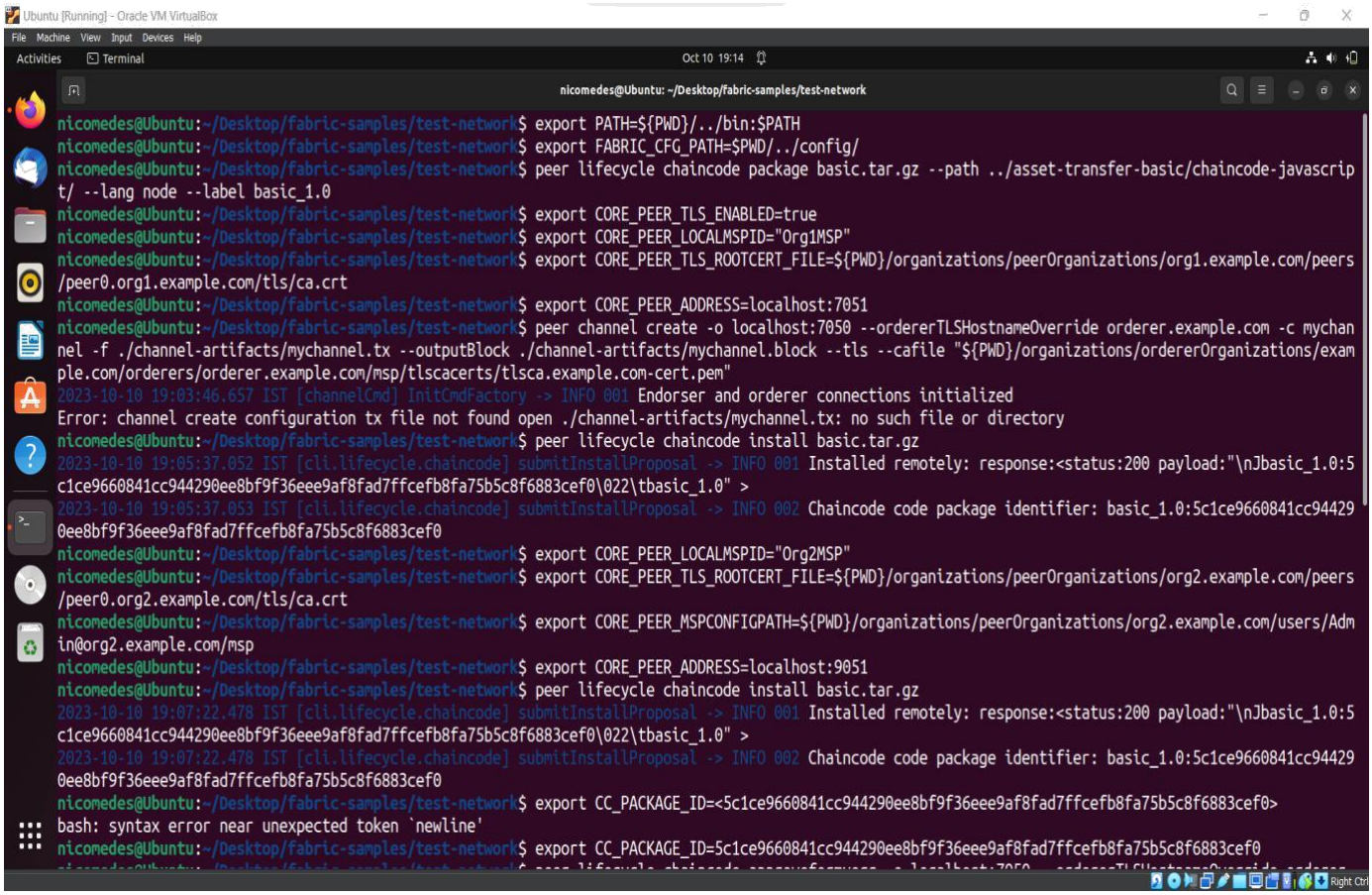
Committing Chaincode

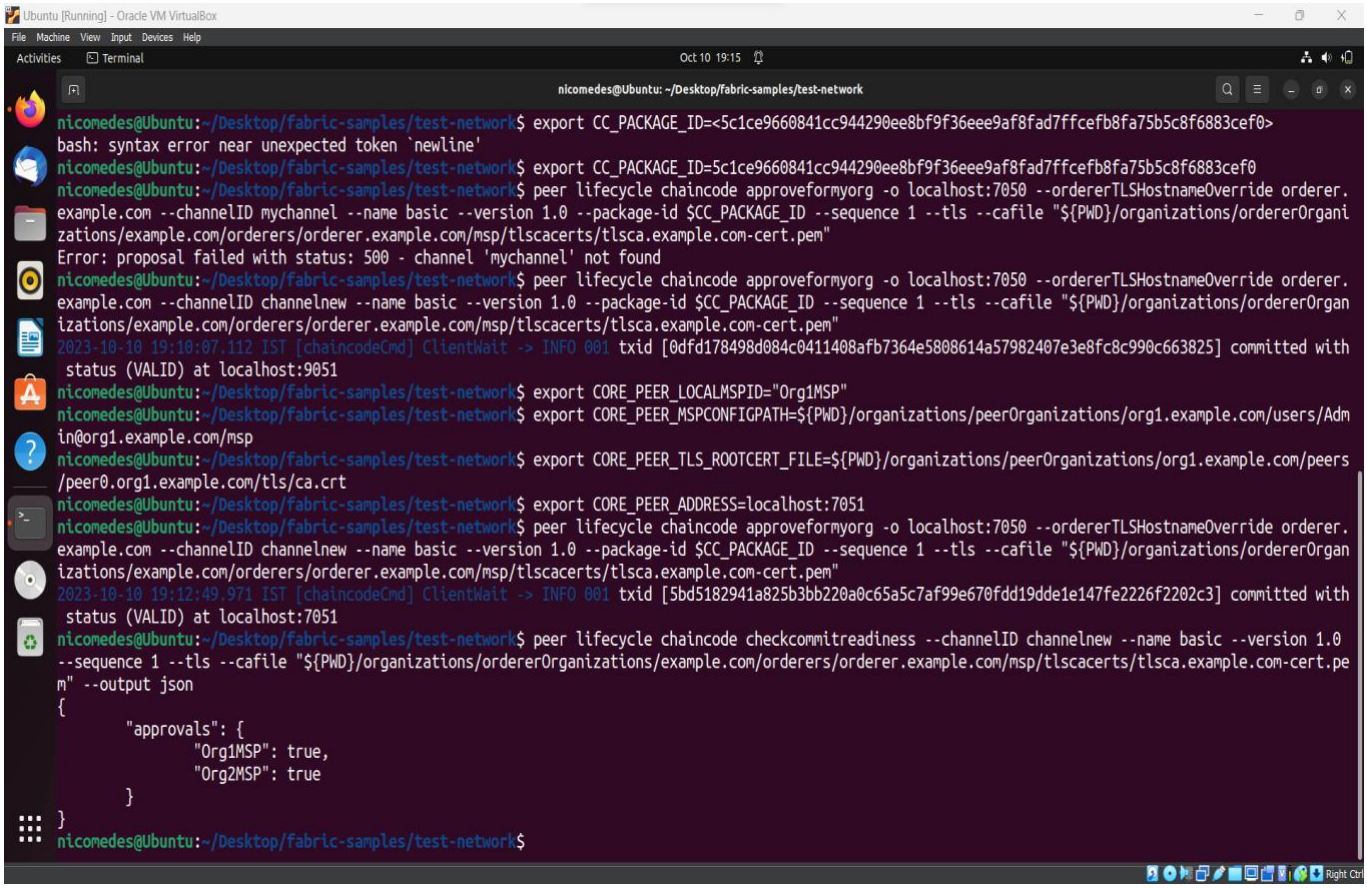
```
Check commit readiness
peer lifecycle chaincode checkcommitreadiness --channelID mychannel --
name basic --version 1.0 --sequence 1 --tls --cafile
"${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer
.example.com/msp/tlscacerts/tlsca.example.com-cert.pem" --output json
```

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"]}'
```




Ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities
Terminal
Oct 10 19:15
nicomedes@Ubuntu: ~/Desktop/fabric-samples/test-network
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$ export CC_PACKAGE_ID=<5c1ce9660841cc944290ee8bf9f36eee9af8fad7ffcefb8fa75b5c8f6883cef0>
bash: syntax error near unexpected token `newline'
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$ export CC_PACKAGE_ID=5c1ce9660841cc944290ee8bf9f36eee9af8fad7ffcefb8fa75b5c8f6883cef0
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$ 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"
Error: proposal failed with status: 500 - channel 'mychannel' not found
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$ peer lifecycle chaincode approveformyorg -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --channelID channelnew --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"
2023-10-10 19:10:07.112 IST [chaincodeCmd] ClientWait -> INFO 001 txid [0dfd178498d084c0411408afb7364e5808614a57982407e3e8fc8c990c663825] committed with status (VALID) at localhost:9051
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$ export CORE_PEER_LOCALMSPID="Org1MSP"
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$ export CORE_PEER_MSPCONFIGPATH=${PWD}/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$ export CORE_PEER_TLS_ROOTCERT_FILE=${PWD}/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/ca.crt
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$ export CORE_PEER_ADDRESS=localhost:7051
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$ peer lifecycle chaincode approveformyorg -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --channelID channelnew --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"
2023-10-10 19:12:49.971 IST [chaincodeCmd] ClientWait -> INFO 001 txid [5bd5182941a825b3bb220a0c65a5c7af99e670fdd19dde1e147fe2226f2202c3] committed with status (VALID) at localhost:7051
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$ peer lifecycle chaincode checkcommitreadiness --channelID channelnew --name basic --version 1.0 --sequence 1 --tls --cafile "${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem" --output json
{
"approvals": {
"Org1MSP": true,
"Org2MSP": true
}
}
nicomedes@Ubuntu:~/Desktop/fabric-samples/test-network$
Right Ctrl