

Practical – 7

Name: Dhruv Sonani

Roll Number: 20BCE527

Course Code: 2CSDE93

Course Name: Blockchain Technology

Aim: To perform a thorough study of blockchain development on Hyperledger Fabric using Composer

1. Install wsl on windows 11(wsl —install):

```
Welcome to Ubuntu 20.04 LTS (GNU/Linux 5.10.16.3-microsoft-standard-WSL2 x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/advantage

System information as of Mon Nov 21 22:13:18 IST 2022

System load:  0.0               Processes:            8
Usage of /:   0.7% of 250.98GB   Users logged in:     0
Memory usage: 6%               IPv4 address for eth0: 172.17.38.226
Swap usage:   0%

309 updates can be installed immediately.
203 of these updates are security updates.
To see these additional updates run: apt list --upgradable

This message is shown once once a day. To disable it please create the
/home/deavik/.hushlogin file
```

2. sudo apt install docker.io -y

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  docker-ce-rootless-extras docker-scan-plugin libseccomp2 pigz slirpnetns
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite
The following NEW packages will be installed:
  containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras docker-compose-plugin docker-scan-plugin pigz
  slirpnetns
The following packages will be upgraded:
  libseccomp2
1 upgraded, 8 newly installed, 0 to remove and 277 not upgraded.
Need to get 111 MB of archives.
After this operation, 428 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 https://download.docker.com/linux/ubuntu focal/stable amd64 containerd.io amd64 1.6.9-1 [27.7 MB]
Get:2 http://archive.ubuntu.com/ubuntu focal/universe amd64 pigz amd64 2.4-1 [57.4 kB]
Get:3 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libseccomp2 amd64 2.5.1-1ubuntu1-20.04.2 [42.5 kB]
Get:4 http://archive.ubuntu.com/ubuntu focal/universe amd64 slirpnetns amd64 0.4.3-1 [74.3 kB]
Get:5 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-cli amd64 5:20.10.21~3-0-ubuntu-focal [41.5 MB]
Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce amd64 5:20.10.21~3-0-ubuntu-focal [20.5 MB]
Get:7 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-rootless-extras amd64 5:20.10.21~3-0-ubuntu-focal [8394 kB]
Get:8 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-compose-plugin amd64 2.12.2-ubuntu-focal [9567 kB]
Get:9 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-scan-plugin amd64 0.21.0-ubuntu-focal [3622 kB]
Fetched 111 MB in 2min 45s (677 kB/s)
Selecting previously unselected package pigz.
(Reading database ... 31835 files and directories currently installed.)
Preparing to unpack .../archives/pigz.2.4-1_amd64.deb ...
Unpacking pigz (2.4-1) ...
Preparing to unpack .../libseccomp2.2.5.1-1ubuntu1-20.04.2_amd64.deb ...
Unpacking libseccomp2:amd64 (2.5.1-1ubuntu1-20.04.2) over (2.4.3-1ubuntu1) ...
Setting up libseccomp2:amd64 (2.5.1-1ubuntu1-20.04.2) ...
```

3. `sudo apt install docker-compose`

```
Preparing to unpack .../1/python3-websocket_0.53.0-2ubuntu1_all.deb ...
Unpacking python3-websocket (0.53.0-2ubuntu1) ...
Selecting previously unselected package python3-docker.
Preparing to unpack .../2-python3-docker_4.0.1-1_all.deb ...
Unpacking python3-docker (4.0.1-1) ...
Selecting previously unselected package python3-dockerpty.
Preparing to unpack .../3-python3-dockerpty_0.4.1-2_all.deb ...
Unpacking python3-dockerpty (0.4.1-2) ...
Selecting previously unselected package python3-dcobject.
Preparing to unpack .../4/python3-dcobject_0.6.2-2.2ubuntu1_all.deb ...
Unpacking python3-dcobject (0.6.2-2.2ubuntu1) ...
Selecting previously unselected package python3-texttable.
Preparing to unpack .../5/python3-texttable_1.6.2-1_all.deb ...
Unpacking python3-texttable (1.6.2-1) ...
Selecting previously unselected package docker-compose.
Preparing to unpack .../6-docker-compose_1.25.0-1_all.deb ...
Unpacking docker-compose (1.25.0-1) ...
Setting up python3-cached-property (1.5.1-4) ...
Setting up python3-texttable (1.6.2-1) ...
Setting up python3-dcobject (0.6.2-2.2ubuntu1) ...
Setting up python3-websocket (0.53.0-2ubuntu1) ...
update-alternatives: using /usr/bin/python3-wsdump to provide /usr/bin/wsdump (wsdump) in auto mode
Setting up python3-dockerpty (0.4.1-2) ...
Setting up python3-docker (4.0.1-1) ...
Setting up docker-compose (1.25.0-1) ...
Processing triggers for man-db (2.9.1-1) ...
dpkg-query -f='${Package} ${Version} ${Architecture}\n'
Reading package lists... Done
Building dependency tree
Reading state information... Done
docker-compose is already the newest version (1.25.0-1).
0 upgraded, 0 newly installed, 0 to remove and 277 not upgraded.
```

4. `sudo apt install python3 python3-pip ipython3`

```

Adding package lists... Done
Setting up python3-pygments (0.6.0-ubuntu1) ...
Setting up libxau6:amd64 (1:0.3.0-ubuntu1-0.00) ...
Setting up libicef6:amd64 (2.3.0-ubuntu1.3) ...
Setting up python3-prompt-toolkit (0.6.10-2) ...
Setting up python3-jedi (0.15.2-1) ...
Setting up libxmu6:amd64 (0.9.3-ubuntu1-20.04.1) ...
Setting up python3-requests (4.6.0-1build1) ...
Setting up libpython3.8:amd64 (3.8.10-ubuntu1-20.04.5) ...
Setting up python3-pip (20.0.2-1ubuntu1.6) ...
Setting up gcc-9 (9.4.0-ubuntu1-20.04.2) ...
Setting up libcc-dev:amd64 (2.31-ubuntu1.9) ...
Setting up binutils-x86-64-linux-gnu (2.34-ubuntu1.3) ...
Setting up binutils (2.34-ubuntu1.3) ...
Setting up pkg-config (1.19.7-ubuntu1.2) ...
Setting up libgcc-9-dev:amd64 (9.4.0-ubuntu1-20.04.1) ...
Setting up libxpat1-dev:amd64 (2.2.9-ubuntu1.5) ...
Setting up libpython3.8-dev:amd64 (3.8.10-ubuntu1-20.04.5) ...
Setting up python3-lxml (4.5.1-0ubuntu1) ...
Setting up zlib1g-dev:amd64 (1:1.2.11.dfsg-2ubuntu1.5) ...
Setting up gcc (4.9.1-0ubuntu2) ...
Setting up libpython3 (7.13.0-1) ...
Setting up gcc-9 (9.4.0-ubuntu1-20.04.1) ...
Setting up libpython3-dev:amd64 (3.8.2-0ubuntu2) ...
Setting up libgcc-9-dev:amd64 (9.4.0-ubuntu1-20.04.1) ...
Setting up gcc (4.9.1-0ubuntu2) ...
Setting up g++-9 (9.4.0-ubuntu1-20.04.1) ...
Setting up python3.8-dev (3.8.10-ubuntu1-20.04.5) ...
Setting up g++ (4.9.1-0ubuntu2) ...
update-alternatives: using /usr/bin/g++ to provide /usr/bin/c++ (c++) in auto mode
Setting up build-essential (12.0ubuntu1.1) ...
Setting up python3-dev (3.8.2-0ubuntu2) ...
Processing triggers for libice-2:amd64 (2.3.0-ubuntu1.3) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-support (3.6ubuntu1) ...

```

5. `sudo apt install python2`

```

Selecting previously unselected package libpython2.7-minimal:amd64.
(Reading database ... #9715 files and directories currently installed.)
Preparing to unpack .../6-libpython2.7-minimal_2.7.18-1-20.04_3.amd64.deb ...
Unpacking libpython2.7-minimal (2.7.18-1-20.04_3) ...
Selecting previously unselected package python2.7-minimal.
Preparing to unpack .../1-python2.7-minimal_2.7.18-1-20.04_3.amd64.deb ...
Unpacking python2.7-minimal (2.7.18-1-20.04_3) ...
Selecting previously unselected package python2.7-minimal.
Preparing to unpack .../2-python2-minimal_2.7.17-2ubuntu4_amd64.deb ...
Unpacking python2-minimal (2.7.17-2ubuntu4) ...
Selecting previously unselected package libpython2.7-stdlib:amd64.
Preparing to unpack .../3-libpython2.7-stdlib_2.7.18-1-20.04_3.amd64.deb ...
Unpacking libpython2.7-stdlib (2.7.18-1-20.04_3) ...
Selecting previously unselected package python2.7.
Preparing to unpack .../4-python2.7_2.7.18-1-20.04_3.amd64.deb ...
Unpacking python2.7 (2.7.18-1-20.04_3) ...
Selecting previously unselected package libpython2.7-stdlib:amd64.
Preparing to unpack .../6-libpython2.7-stdlib_2.7.17-2ubuntu4_amd64.deb ...
Unpacking libpython2.7-stdlib:amd64 (2.7.17-2ubuntu4) ...
Setting up libpython2.7-minimal:amd64 (2.7.18-1-20.04_3) ...
Setting up python2.7-minimal (2.7.18-1-20.04_3) ...
Installing byte-compiling packages for python2.7-minimal
Setting up python2-minimal (2.7.17-2ubuntu4) ...
Selecting previously unselected package python2.
(Reading database ... #1462 files and directories currently installed.)
Preparing to unpack .../python2.7_2.7.17-2ubuntu4_amd64.deb ...
Unpacking python2 (2.7.17-2ubuntu4) ...
Setting up libpython2.7-stdlib:amd64 (2.7.18-1-20.04_3) ...
Setting up python2.7 (2.7.18-1-20.04_3) ...
Setting up libpython2.7-stdlib:amd64 (2.7.17-2ubuntu4) ...
Setting up python2 (2.7.17-2ubuntu4) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for base-support (3.6ubuntu1) ...

```

6. sudo apt install golang-go

```
Selecting previously unselected package golang-1.13-src.
(Reading database ... 41492 files and directories currently installed.)
Preparing to unpack .../0-golang-1.13-src_1.13.8-1ubuntu1.1_amd64.deb ...
Unpacking golang-1.13-src (1.13.8-1ubuntu1.1) ...
Selecting previously unselected package golang-1.13-go.
Preparing to unpack .../1-golang-1.13-go_1.13.8-1ubuntu1.1_amd64.deb ...
Unpacking golang-1.13-go (1.13.8-1ubuntu1.1) ...
Selecting previously unselected package golang-1.13-race-detector-runtime.
Preparing to unpack .../2-golang-1.13-race-detector-runtime_0.0+svn332029-0ubuntu2_amd64.deb ...
Unpacking golang-1.13-race-detector-runtime (0.0+svn332029-0ubuntu2) ...
Selecting previously unselected package golang-src.
Preparing to unpack .../3-golang-src_2%3a1.13-1ubuntu2_amd64.deb ...
Unpacking golang-src (2:1.13-1ubuntu2) ...
Selecting previously unselected package golang-go.
Preparing to unpack .../4-golang-go_2%3a1.13-1ubuntu2_amd64.deb ...
Unpacking golang-go (2:1.13-1ubuntu2) ...
Selecting previously unselected package pkg-config.
Preparing to unpack .../5-pkg-config_0.29.1-0ubuntu4_amd64.deb ...
Unpacking pkg-config (0.29.1-0ubuntu4) ...
Selecting previously unselected package golang-race-detector-runtime.
Preparing to unpack .../6-golang-race-detector-runtime_2%3a1.13-1ubuntu2_amd64.deb ...
Unpacking golang-race-detector-runtime (2:1.13-1ubuntu2) ...
Setting up golang-1.13-src (1.13.8-1ubuntu1.1) ...
Setting up golang-1.13-race-detector-runtime (0.0+svn332029-0ubuntu2) ...
Setting up pkg-config (0.29.1-0ubuntu4) ...
Setting up golang-1.13-go (1.13.8-1ubuntu1.1) ...
Setting up golang-src (2:1.13-1ubuntu2) ...
Setting up golang-race-detector-runtime (2:1.13-1ubuntu2) ...
Setting up golang-go (2:1.13-1ubuntu2) ...
Processing triggers for man-db (2.9.1-1) ...
```

7. sudo apt install nodejs

```
Suggested packages:
  npm
The following NEW packages will be installed:
  libc-ares2 libnode64 nodejs nodejs-doc
0 upgraded, 4 newly installed, 0 to remove and 270 not upgraded.
Need to get 6807 kB of archives.
After this operation, 30.7 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 libc-ares2 amd64 1.15.0-1ubuntu1
Get:2 http://archive.ubuntu.com/ubuntu focal/universe amd64 libnode64 amd64 10.19.0-dfsg-3ubuntu1
Get:3 http://archive.ubuntu.com/ubuntu focal/universe amd64 nodejs-doc all 10.19.0-dfsg-3ubuntu1
Get:4 http://archive.ubuntu.com/ubuntu focal/universe amd64 nodejs amd64 10.19.0-dfsg-3ubuntu1
Fetched 6807 kB in 3s (2362 kB/s)
Selecting previously unselected package libc-ares2:amd64.
(Reading database ... 51649 files and directories currently installed.)
Preparing to unpack .../libc-ares2_1.15.0-1ubuntu1.1_amd64.deb ...
Unpacking libc-ares2:amd64 (1.15.0-1ubuntu1.1) ...
Selecting previously unselected package libnode64:amd64.
Preparing to unpack .../libnode64_10.19.0-dfsg-3ubuntu1_amd64.deb ...
Unpacking libnode64:amd64 (10.19.0-dfsg-3ubuntu1) ...
Selecting previously unselected package nodejs-doc.
Preparing to unpack .../nodejs-doc_10.19.0-dfsg-3ubuntu1_all.deb ...
Unpacking nodejs-doc (10.19.0-dfsg-3ubuntu1) ...
Selecting previously unselected package nodejs.
Preparing to unpack .../nodejs_10.19.0-dfsg-3ubuntu1_amd64.deb ...
Unpacking nodejs (10.19.0-dfsg-3ubuntu1) ...
Setting up libc-ares2:amd64 (1.15.0-1ubuntu1.1) ...
Setting up libnode64:amd64 (10.19.0-dfsg-3ubuntu1) ...
Setting up nodejs-doc (10.19.0-dfsg-3ubuntu1) ...
Setting up nodejs (10.19.0-dfsg-3ubuntu1) ...
update-alternatives: using /usr/bin/nodejs to provide /usr/bin/js (js) in auto mode
Processing triggers for libc-bin (2.31-0ubuntu9) ...
Processing triggers for man-db (2.9.1-1) ...
```

8. sudo apt install npm

```
[sudo] password for dravik:
Reading package lists... Done
Building dependency tree
Reading state information... Done
npm is already the newest version (6.14.4+ds-1ubuntu2).
0 upgraded, 0 newly installed, 0 to remove and 268 not upgraded.
```

9. `git config --global core.autocrlf false`
`git config --global core.longpaths true`
`mkdir hyperledge`
`cd hyperledge`

```
alvin@DESKTOP-MPQQLF3:~$ git config --global core.autocrlf false
alvin@DESKTOP-MPQQLF3:~$ git config --global core.longpaths true
alvin@DESKTOP-MPQQLF3:~$ mkdir hyperledge
alvin@DESKTOP-MPQQLF3:~$ cd hyperledge
alvin@DESKTOP-MPQQLF3:~/hyperledge$ curl -sL http://bit.ly/2ysb0FE | bash -s

Clone hyperledger/fabric-samples repo

==> Cloning hyperledger/fabric-samples repo
Cloning into 'fabric-samples'...
remote: Enumerating objects: 11482, done.
remote: Counting objects: 100% (78/78), done.
remote: Compressing objects: 100% (53/53), done.
remote: Total 11482 (delta 30), reused 44 (delta 19), pack-reused 11404
Receiving objects: 100% (11482/11482), 21.79 MiB | 1.17 MiB/s, done.
Resolving deltas: 100% (6154/6154), done.
fabric-samples v2.4.7 does not exist, defaulting to main. fabric-samples main branch is intended to work with recent versions of fabric.

Pull Hyperledger Fabric binaries

==> Downloading version 2.4.7 platform specific fabric binaries
==> Downloading: https://github.com/hyperledger/fabric/releases/download/v2.4.7/hyperledger-fabric-linux-amd64-2.4.7.tar.gz
  % Total    % Received % Xferd Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
 100 85.9M  100 85.9M    0     0  683k      0  0:02:08  0:02:08 --:--:-- 692k
==> Done.

==> Downloading version 1.5.5 platform specific fabric-ca-client binary
==> Downloading: https://github.com/hyperledger/fabric-ca/releases/download/v1.5.5/hyperledger-fabric-ca-linux-amd64-1.5.5.tar.gz
  % Total    % Received % Xferd Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
 100 29.4M  100 29.4M    0     0  741k      0  0:00:40  0:00:40 --:--:-- 517k
==> Done.

Pull Hyperledger Fabric docker images
```

10. Run hello world program

```
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:faa03e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

11. export GOPATH=\$HOME/lucifar/hyperledger/fabric-samples/asset-transfer-basic/chaincode-go/
cd fabric-samples/test-network
./network.sh down

```
Using docker and docker-compose
Stopping network
Removing network fabric_test
WARNING: Network fabric_test not found.
Removing network compose_default
WARNING: Network compose_default not found.
Removing volume compose_orderer.example.com
WARNING: Volume compose_orderer.example.com not found.
Removing volume compose_peer0.org1.example.com
WARNING: Volume compose_peer0.org1.example.com not found.
Removing volume compose_peer0.org2.example.com
WARNING: Volume compose_peer0.org2.example.com not found.
Removing volume compose_peer0.org3.example.com
WARNING: Volume compose_peer0.org3.example.com not found.
Error: No such volume: docker_orderer.example.com
Error: No such volume: docker_peer0.org1.example.com
Error: No such volume: docker_peer0.org2.example.com
Removing remaining containers
Removing generated chaincode docker images
"docker kill" requires at least 1 argument.
See 'docker kill --help'.

Usage:  docker kill [OPTIONS] CONTAINER [CONTAINER...]

Kill one or more running containers
Unable to find image 'busybox:latest' locally
latest: Pulling from library/busybox
Digest: sha256:fcd85228d7a25feb59f101ac3a955d27c80df4ad824d65f5757a954831450185
Status: Downloaded newer image for busybox:latest
```

12. ./network.sh up

```
Using docker and docker-compose
Starting nodes with CLI timeout of '5' tries and CLI delay of '3' seconds and using database 'leveldb' with crypto from 'cryptogen'
LOCAL_VERSION=2.4.7
DOCKER_IMAGE_VERSION=2.4.7
/home/keval/fabric-samples/test-network/./bin/cryptogen
Generating certificates using cryptogen tool
Creating Org1 Identities
+ cryptogen generate --config=./organizations/cryptogen/crypto-config-org1.yaml --output-organizations
org1.example.com
+ res=0
Creating Org2 Identities
+ cryptogen generate --config=./organizations/cryptogen/crypto-config-org2.yaml --output-organizations
org2.example.com
+ res=0
Creating Orderer Org Identities
+ cryptogen generate --config=./organizations/cryptogen/crypto-config-orderer.yaml --output-organizations
orderer.example.com
+ res=0
Generating CCP files for Org1 and Org2
Creating network "fabric_test" with the default driver
Creating volume "compose_orderer.example.com" with default driver
Creating volume "compose_peer0.org1.example.com" with default driver
Creating volume "compose_peer0.org2.example.com" with default driver
Creating peer0.org1.example.com ... done
Creating orderer.example.com ... done
Creating peer0.org2.example.com ... done
Creating cli ... done
CONTAINER ID        IMAGE                                COMMAND                  CREATED              STATUS              PORTS
5f9513d393e6a      hyperledger/fabric-tools:latest    "/bin/bash"             3 seconds ago       Up Less than a second
a8181a2c86e3      hyperledger/fabric-orderer:latest  "orderer"               6 seconds ago       Up 2 seconds        0.0.0.0:7050->7050/tcp, :::7050->7050/tcp, 0.0.0.0:7051->7051/tcp, :::7051->7051/tcp
7f80170c97cc      hyperledger/fabric-peer:latest     "peer node start"        6 seconds ago       Up 2 seconds        0.0.0.0:9045->9045/tcp, :::9045->9045/tcp, 0.0.0.0:9046->9046/tcp, :::9046->9046/tcp
413bd16add9       hyperledger/fabric-peer:latest     "peer node start"        6 seconds ago       Up 2 seconds        0.0.0.0:7051->7051/tcp, :::7051->7051/tcp, 0.0.0.0:9444->9444/tcp, :::9444->9444/tcp
b11d5b1083d5      hello-world                         "/hello"                 4 minutes ago       Exited (0) 4 minutes ago
romantic_nash
```

13. /network.sh createChannel

[illegible]

```
14. /network.sh deployCC -ccn basic -ccp ../asset-transferbasic/chaincode-go -ccl go
```

```

killing docker and docker-compose
killing chaincode on channel 'mychannel'
executing with the following
- CHANNEL_NAME: mychannel
- CC_NAME: basic
- CC_SRC_PATH: ./asset-transfer-basic/chaincode-go
- CC_SRC_LANGUAGE: go
- CC_VERSION: 1.0
- CC_SEQUENCE: 1
- CC_END_POLICY: NA
- CC_COLL_COLLID: NA
- CC_INIT_FCN: NA
- DELAY: 3
- MAX_RETRY: 5
- VERBOSE: false

go: downloading dependencies at ./asset-transfer-basic/chaincode-go
~/fabric-samples/asset-transfer-basic/chaincode-go ~/fabric-samples/test-network
go: downloading github.com/hyperledger/fabric-protos-go v0.0.0-20220613214546-bf864f0d75e
go: downloading github.com/hyperledger/fabric-chaincode-go v0.0.0-20220720122508-9207360bbddb
go: downloading google.golang.org/protobuf v1.28.0
go: downloading github.com/hyperledger/fabric-contract-api-go v1.2.0
go: downloading github.com/stretchr/testify v1.8.0
go: extracting github.com/stretchr/testify v1.8.0
go: downloading github.com/davecgh/go-spew v1.1.1
go: downloading github.com/pmezard/go-difflib v1.0.0
go: downloading gopkg.in/yaml.v3 v3.0.1
go: extracting github.com/pmezard/go-difflib v1.0.0
go: extracting github.com/davecgh/go-spew v1.1.1
go: extracting gopkg.in/yaml.v3 v3.0.1
go: extracting github.com/hyperledger/fabric-protos-go v0.0.0-20220613214546-bf864f0d75e
go: extracting github.com/hyperledger/fabric-chaincode-go v0.0.0-20220720122508-9207360bbddb
go: downloading github.com/golang/protobuf v1.5.2

[peer0@peer0:~]$ peer0.org1 [chaincodeCmd] ClientWait -> txid [4265d8636950f9b9da74dc1ba683f7fc3b5
35583c059972371a7d4fd9d1043095] committed with status [VALID] at localhost:7051
[2022-11-21 17:34:13.545 IST] peer0 [chaincodeCmd] ClientWait -> txid [4265d8636950f9b9da74dc1ba683f7fc3b5
35583c059972371a7d4fd9d1043095] committed with status [VALID] at localhost:9051
chaincode definition committed on channel 'mychannel'
using organisation 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 basic
+ res=0
Committed chaincode definition for chaincode 'basic' on channel 'mychannel':
Version: 1.0, Sequence: 1, Endorsement Plugin: escv, Validation Plugin: vscv, Approvals: [Org1MSP: true, Org
2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
using organisation 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 basic
+ res=0
Committed chaincode definition for chaincode 'basic' on channel 'mychannel':
Version: 1.0, Sequence: 1, Endorsement Plugin: escv, Validation Plugin: vscv, Approvals: [Org1MSP: true, Org
2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'

```