

Reporting No:4 Week No:4 From :16/06/2025 To:20/06/2025

College ID: 22IT116

Project Title: performance analysis of app

WEEKLY REPORT

Work done in last week (Attach supporting Documents):

16/06/2025 Monday

9:30 – 11:30	<i>Configured Fabric CA using Docker Compose and generated cryptographic material using CA server.</i>
12:00– 2:30	Installed Hyperledger Fabric binaries and Fabric samples using bootstrap script.
3:00– 5:00	Set up environment; located Fabric samples, downloaded samples, navigated to test network directory, and brought up the test network using Docker.

17/06/2025 Tuesday

9:30 – 11:30	<i>Created a channel and deployed sample chaincode on the network.</i>
12:00– 2:30	Generated cryptographic certificates with cryptogen tool and started Docker network.
3:00– 5:00	<i>Validated endorsement policies and state-based access control. Configured peer and orderer nodes; added orderer to the channel and joined peers to the channel; updated anchor peers.</i>

18/06/2025 Wednesday

9:30 – 11:30	Configured chaincode environment, packaged chaincode.
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12:00– 2:30	Installed chaincode on peers, approved chaincode, and committed it to the channel.
3:00– 5:00	Initialized chaincode and performed asset operations: create, query, update, delete assets via CLI.

19/06/2025 Thursday

9:30 – 11:30	Enabled CouchDB state database and started test network with CouchDB.
12:00– 2:30	Deployed chaincode with CouchDB support and verified CouchDB state database.
3:00– 5:00	<i>Deployed Asset Transfer Ledger Query Chaincode, created and queried assets with CouchDB pagination; shut down the network.</i>

20/06/2025 Friday

9:30 – 11:30	Set up Fabric CA service using Docker Compose and registered identities (owner, buyer).
12:00– 2:30	Reinstalled Docker, Fabric samples, and environment dependencies. Started network with Fabric CA, deployed chaincode, and installed application dependencies.
3:00– 5:00	Validated development setup and started re-implementation of Fabric chaincode labs. Ran client application with Fabric Gateway, deployed private data smart contract, created and queried private data assets, transferred private assets, and shut down network.

Reason for incomplete work:

Plans for next week:

References:

1. Linux Foundation : trainingportal.linuxfoundation.org/hyperledger-fabric-design-develop-and-deploy-lfs270

```
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop$ mkdir hyperledger
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop$ cd hyperledger
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ curl -sSL0 https://raw.githubusercontent.com/hyperledger/fabric/main/scripts/install-fabric.sh && chmod +x install-fabric.sh
curl: (3) URL using bad/illegal format or missing URL
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ curl -sSL0 https://raw.githubusercontent.com/hyperledger/fabric/main/scripts/install-fabric.sh && chmod +x install-fabric.sh
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$
```

```
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop$ mkdir hyperledger
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop$ cd hyperledger
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ curl -sSL0 https://raw.githubusercontent.com/hyperledger/fabric/main/scripts/install-fabric.sh && chmod +x install-fabric.sh
curl: (3) URL using bad/illegal format or missing URL
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ curl -sSL0 https://raw.githubusercontent.com/hyperledger/fabric/main/scripts/install-fabric.sh && chmod +x install-fabric.sh
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ ls
install-fabric.sh
```

```
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop$ mkditi hyperledger
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop$ cd hyperledger
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ curl -sSL0 https://raw.githubusercontent.com/hyperledger/fabric/main/scripts/install-fabric.sh && chmod +x install-fabric.sh
curl: (3) URL using bad/illegal format or missing URL
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ curl -sSL0 https://raw.githubusercontent.com/hyperledger/fabric/main/scripts/install-fabric.sh && chmod +x install-fabric.sh
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ ls
install-fabric.sh
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ ./install-fabric.sh -h
Usage: ./install-fabric.sh [-f|--Fabric-version <arg>] [-c|--ca-version <arg>] <comp-1> [<comp-2>] ... [<comp-n>] ...
  <comp> Component to install, one or more of docker | binary | samples | podman First letter of component also accepted; If none specified docker | binary | samples is assumed
  -f, --Fabric-version: FabricVersion (default: '2.5.12')
  -c, --ca version: Fabric CA Version (default: '1.5.15')
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ ./install-fabric.sh d s b
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger$ ./install-fabric.sh d s b

Clone hyperledger/fabric-samples repo
==> Cloning hyperledger/fabric-samples repo
Cloning into 'Fabric-samples'...
remote: Enumerating objects: 14810, done.
remote: Counting objects: 100% (264/264), done.
remote: Compressing objects: 100% (177/177), done.
Receiving objects: 64% (9479/14810), 6.00 MiB | 2.21 MiB/s
```

```
[trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger]$ ./install-fabric.sh d s b
Jun 21 18:15
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger$ ./install-fabric.sh d s b
Clone hyperledger/fabric-samples repo
====> Cloning hyperledger/fabric-samples repo
Cloning into 'fabric-samples'...
remote: Enumerating objects: 14810, done.
remote: Counting objects: 100% (258/258), done.
remote: Compressing objects: 100% (177/177), done.
remote: Total 14810 (delta 138), reused 81 (delta 81), pack-reused 14552 (from 5)
Receiving objects: 100% (14810/14810), 23.88 MB | 4.86 MiB/s, done.
Resolving deltas: 100% (8106/8106), done.
fabric-samples v2.5.12 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 2.5.12 platform specific fabric binaries
====> Downloading: https://github.com/hyperledger/fabric/releases/download/v2.5.12/hyperledger-fabric-linux-amd64-2.5.12.tar.gz
====> Will unpack to: /home/trushang/Desktop/hyperledger/Fabric-samples
% Total    % Received   % Xferd  Average Speed   Time   Current
          Dload  Upload Total Spent   Left Speed
0     0     0     0     0      0 0:00:19 0:00:19      0
100 118M 100 118M 0     0 6206K 0 0:00:19 0:00:19      0
=> Done.
====> Downloading version 1.5.15 platform specific fabric-ca-client binary
====> Downloading: https://github.com/hyperledger/fabric/releases/download/v1.5.15/hyperledger-fabric-ca-linux-amd64-1.5.15.tar.gz
====> Will unpack to: /home/trushang/Desktop/hyperledger/Fabric-samples
% Total    % Received   % Xferd  Average Speed   Time   Current
          Dload  Upload Total Spent   Left Speed
0     0     0     0     0      0 0:00:06 0:00:06      0
100 30.8M 100 30.8M 0     0 4777K 0 0:00:06 0:00:06      0
=> Done.

Pull Hyperledger Fabric docker images
FABRIC_IMAGES: peer orderer ccenv baseos
====> Pulling fabric Images
====> gcr.io/hyperledger/fabric-peer:2.5.12
2.5.12: Pulling from hyperledger/fabric-peer
Digest: sha256:f5f3fb3061a067df0d13ed109fe1109cc9cbf02207936438435fcf431a11440
Status: Image is up to date for gcr.io/hyperledger/fabric-peer:2.5.12
gcr.io/hyperledger/fabric-peer:2.5.12
====> gcr.io/hyperledger/fabric-orderer:2.5.12
2.5.12: Pulling from hyperledger/fabric-orderer
Jun 21 18:16
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger$ ./install-fabric.sh d s b
Status: Image is up to date for gcr.io/hyperledger/fabric-peer:2.5.12
gcr.io/hyperledger/Fabric-peer:2.5.12
====> gcr.io/hyperledger/fabric-orderer:2.5.12
2.5.12: Pulling from hyperledger/fabric-orderer
Digest: sha256:5a91a378ed13de92d1566781deef0baaca42265076f96b5921ad03b25184c6a
Status: Image is up to date for gcr.io/hyperledger/fabric-orderer:2.5.12
gcr.io/hyperledger/fabric-orderer:2.5.12
====> gcr.io/hyperledger/fabric-ccenv:2.5.12
2.5.12: Pulling from hyperledger/fabric-ccenv
Digest: sha256:72bd013702ad54a103c00e658617110da69c496b60993e35c9d9e09c1a338e
Status: Image is up to date for gcr.io/hyperledger/fabric-ccenv:2.5.12
gcr.io/hyperledger/fabric-ccenv:2.5.12
====> gcr.io/hyperledger/fabric-baseos:2.5.12
2.5.12: Pulling from hyperledger/fabric-baseos
Digest: sha256:f0dabb84acd84e35c2303593c6ce859e3d000b77d86b25d2116cbc67f8b6ff
Status: Image is up to date for gcr.io/hyperledger/fabric-baseos:2.5.12
gcr.io/hyperledger/fabric-baseos:2.5.12
====> Pulling fabric_ca Image
====> gcr.io/hyperledger/fabric-ca:1.5.15
1.5.15: Pulling from hyperledger/fabric-ca
Digest: sha256:47804861f8be659372510b72c1e8b141563743e1f5840d8c094ded1df9253c68
Status: Image is up to date for gcr.io/hyperledger/fabric-ca:1.5.15
gcr.io/hyperledger/fabric-ca:1.5.15
====> List our hyperledger Images
hyperledger/fabric-peer           2.5      63a9820373a4  3 months ago  151MB
hyperledger/fabric-peer           2.5.12   63a9820373a4  3 months ago  151MB
hyperledger/fabric-peer           latest   63a9820373a4  3 months ago  151MB
gcr.io/hyperledger/fabric-peer    2.5.12   63a9820373a4  3 months ago  151MB
gcr.io/hyperledger/fabric-orderer 2.5.12   d69cac8bbe84  3 months ago  188MB
hyperledger/fabric-orderer        2.5      d69cac8bbe84  3 months ago  188MB
hyperledger/fabric-orderer        2.5.12   d69cac8bbe84  3 months ago  188MB
hyperledger/fabric-orderer        latest   d69cac8bbe84  3 months ago  188MB
hyperledger/fabric-ccenv          2.5      a39804456867  3 months ago  676MB
hyperledger/fabric-ccenv          2.5.12   a39804456867  3 months ago  676MB
hyperledger/fabric-ccenv          latest   a39804456867  3 months ago  676MB
gcr.io/hyperledger/fabric-ccenv   2.5.12   a39804456867  3 months ago  676MB
hyperledger/fabric-baseos         2.5      32d16466e457  3 months ago  142MB
hyperledger/fabric-baseos         2.5.12   32d16466e457  3 months ago  142MB
hyperledger/fabric-baseos         latest   32d16466e457  3 months ago  142MB
gcr.io/hyperledger/fabric-baseos  2.5.12   32d16466e457  3 months ago  142MB
hyperledger/fabric-ca             1.5      03492c5437b1  4 months ago  252MB
hyperledger/fabric-ca             1.5.15  03492c5437b1  4 months ago  252MB
hyperledger/fabric-ca             latest   03492c5437b1  4 months ago  252MB
gcr.io/hyperledger/fabric-ca     1.5.15  03492c5437b1  4 months ago  252MB
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger$
```

```
Jun 19 20:42
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger

====> Pulling fabric Images
=====> gcr.io/hyperledger/fabric-peer:2.5.12
2.5.12: Pulling from hyperledger/fabric-peer
9cb31e2e37ea: Pull complete
db23127575f9: Pull complete
ab49923c0970: Pull complete
8b1cd4ealb4: Pull complete
d8dbf9e3c4ef: Pull complete
ee5e31e4b37b: Pull complete
Digest: sha256:f5f3fb3b061a067fd013ed109fe1109cc9cbf02207936438435fcf431a11440
Status: Downloaded newer image for gcr.io/hyperledger/fabric-peer:2.5.12
====> gcr.io/hyperledger/fabric-orderer:2.5.12
2.5.12: Pulling from hyperledger/fabric-orderer
9cb31e2e37ea: Already exists
904ff7cf7c46: Pull complete
5a2ed0fe863: Pull complete
92d83fceae2: Pull complete
ea198bb0fa631: Pull complete
Digest: sha256:a91a378ed13de92d1566781dede60baaca42265076f96b5921ad03b25184c6a
Status: Downloaded newer image for gcr.io/hyperledger/fabric-orderer:2.5.12
gcr.io/hyperledger/fabric-ccenv:2.5.12
====> gcr.io/hyperledger/fabric-ccenv:2.5.12
2.5.12: Pulling from hyperledger/fabric-ccenv
9cb31e2e37ea: Already exists
402cf9b9a580: Pull complete
6b3d92f86452: Pull complete
a650c2728f06: Pull complete
if31c61b2127: Pull complete
fcz7f0f80faf1: Pull complete
6f72b6cc2521: Pull complete
Digest: sha256:72bda013702ad5a4103c00e6b58617110da69c496b60993e35c9d9e091a338e
Status: Downloaded newer image for gcr.io/hyperledger/fabric-ccenv:2.5.12
====> gcr.io/hyperledger/fabric-baseos:2.5.12
2.5.12: Pulling from hyperledger/fabric-baseos
9cb31e2e37ea: Already exists
ed2e4deddd96: Pull complete
dadd0deaae37: Pull complete
9e9ec9334ad1: Pull complete
Digest: sha256:fd0ab8b4acd84e35c2303593c6ce850e3d000b77d86b25d2116cbc67f8b6ff
Status: Downloaded newer image for gcr.io/hyperledger/fabric-baseos:2.5.12
gcr.io/hyperledger/fabric-baseos:2.5.12
====> Pulling fabric ca Image
=====> gcr.io/hyperledger/fabric-ca:2.5.12
```

```
Jun 19 20:42
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger

6f72b6cc2521: Pull complete
Digest: sha256:72bda013702ad5a4103c00e6b58617110da69c496b60993e35c9d9e091a338e
Status: Downloaded newer image for gcr.io/hyperledger/fabric-ccenv:2.5.12
====> gcr.io/hyperledger/fabric-ccenv:2.5.12
2.5.12: Pulling from hyperledger/fabric-ccenv
9cb31e2e37ea: Already exists
ed2e4deddd96: Pull complete
dadd0deaae37: Pull complete
9e9ec9334ad1: Pull complete
Digest: sha256:fd0ab8b4acd84e35c2303593c6ce850e3d000b77d86b25d2116cbc67f8b6ff
Status: Downloaded newer image for gcr.io/hyperledger/fabric-baseos:2.5.12
gcr.io/hyperledger/fabric-baseos:2.5.12
====> Pulling fabric ca Image
====> gcr.io/hyperledger/fabric-ca:1.5.15
1.5.15: Pulling from hyperledger/fabric-ca
9cb31e2e37ea: Already exists
4c08c17dd7fc: Pull complete
dbbb1bf20e2d: Pull complete
943126a1b0ff: Pull complete
Digest: sha256:4704861f02be659372510b72c1e8b141563743e1f5840d8c094ded1df9253c68
Status: Downloaded newer image for gcr.io/hyperledger/fabric-ca:1.5.15
gcr.io/hyperledger/fabric-ca:1.5.15
====> List out hyperledger Images
gcr.io/hyperledger/fabric-peer 2.5.12 63a9820373a4 3 months ago 151MB
hyperledger/fabric-peer 2.5 63a9820373a4 3 months ago 151MB
hyperledger/fabric-peer latest 63a9820373a4 3 months ago 151MB
hyperledger/fabric-peer 2.5 d69cac8bbe84 3 months ago 118MB
hyperledger/fabric-peer 2.5.12 d69cac8bbe84 3 months ago 118MB
hyperledger/fabric-peer latest d69cac8bbe84 3 months ago 118MB
hyperledger/fabric-orderer 2.5.12 d69cac8bbe84 3 months ago 118MB
hyperledger/fabric-orderer latest d69cac8bbe84 3 months ago 118MB
gcr.io/hyperledger/fabric-orderer 2.5.12 d69cac8bbe84 3 months ago 118MB
hyperledger/fabric-ccenv 2.5 a39804456867 3 months ago 676MB
hyperledger/fabric-ccenv 2.5.12 a39804456867 3 months ago 676MB
hyperledger/fabric-ccenv latest a39804456867 3 months ago 676MB
gcr.io/hyperledger/fabric-ccenv 2.5.12 a39804456867 3 months ago 676MB
hyperledger/fabric-baseos 2.5 32d16a66e457 3 months ago 142MB
hyperledger/fabric-baseos 2.5.12 32d16a66e457 3 months ago 142MB
hyperledger/fabric-baseos latest 32d16a66e457 3 months ago 142MB
gcr.io/hyperledger/fabric-baseos 2.5.12 32d16a66e457 3 months ago 142MB
hyperledger/fabric-ca 1.5 03492c5437b1 4 months ago 225MB
hyperledger/fabric-ca 1.5.15 03492c5437b1 4 months ago 225MB
hyperledger/fabric-ca latest 03492c5437b1 4 months ago 225MB
gcr.io/hyperledger/fabric-ca 1.5.15 03492c5437b1 4 months ago 225MB
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger#
```

```
Jun 19 20:56
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger# ./install-fabric.sh docker samples binary
Clone hyperledger/fabric-samples repo
====> Changing directory to fabric-samples
Fabric-samples v2.5.12 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 2.5.12 platform specific fabric binaries
====> Downloading: https://github.com/hyperledger/fabric/releases/download/v2.5.12/hyperledger-fabric-linux-amd64-2.5.12.tar.gz
====> Will unpack to: /home/trushang/Desktop/hyperledger/fabric-samples
% Total    % Received   % Xferd  Average Speed   Time   Time  Current
          Dload  Upload   Total Spent  Left  Speed
0     0     0     0     0     0      0  --::--:-- 0:00:01  --::-- 0
100 118M 100 118M 0     0  846k  0 0:02:22 0:02:22  --::-- 2138k
=> Done.
====> Downloading version 1.5.15 platform specific Fabric-ca-client binary
====> Downloading: https://github.com/hyperledger/fabric-ca/releases/download/v1.5.15/hyperledger-fabric-ca-linux-amd64-1.5.15.tar.gz
====> Will unpack to: /home/trushang/Desktop/hyperledger/fabric-samples
% Total    % Received   % Xferd  Average Speed   Time   Time  Current
          Dload  Upload   Total Spent  Left  Speed
0     0     0     0     0     0      0  --::--:-- 0:00:10 0:00:10  --::-- 4042k
=> Done.
Pull Hyperledger Fabric docker images
FABRIC_IMAGES: peer orderer ccenv baseos
====> Pulling Fabric Images
====> ghr.io/hyperledger/fabric-peer:2.5.12
2.5.12: Pulling from hyperledger/fabric-peer
Digest: sha256:f5f3fb3b661a067fd013ed109fe1109cc9cbf02207936438435fcf431a11440
Status: Image is up to date for ghr.io/hyperledger/fabric-peer:2.5.12
ghr.io/hyperledger/fabric-peer:2.5.12
====> ghr.io/hyperledger/fabric-orderer:2.5.12
2.5.12: Pulling from hyperledger/fabric-orderer
Digest: sha256:a91a378ed13de92d1566781de6e60baaca42265076f96b5921ad03b25184c6a
Status: Image is up to date for ghr.io/hyperledger/fabric-orderer:2.5.12
ghr.io/hyperledger/fabric-orderer:2.5.12
====> ghr.io/hyperledger/fabric-ccenv:2.5.12
2.5.12: Pulling from hyperledger/fabric-ccenv
Digest: sha256:72bda013702ad5a103c00eb58617110da69c496b60993e35c9d9e09c1a338e
Status: Image is up to date for ghr.io/hyperledger/fabric-ccenv:2.5.12
ghr.io/hyperledger/fabric-ccenv:2.5.12
====> ghr.io/hyperledger/fabric-baseos:2.5.12
2.5.12: Pulling from hyperledger/fabric-baseos
Digest: sha256:f0dab804cd484e35c2303395c6ce850e3d000b77d86b25d2116cbc67f8b6ff
Status: Image is up to date for ghr.io/hyperledger/fabric-baseos:2.5.12
ghr.io/hyperledger/fabric-baseos:2.5.12
====> ghr.io/hyperledger/fabric-ca:1.5.15
1.5.15: Pulling from hyperledger/fabric-ca
Digest: sha256:47a4861f820e659372510b72c1e8b141563743e1f584008c894ded1df9253c68
Status: Image is up to date for ghr.io/hyperledger/fabric-ca:1.5.15
ghr.io/hyperledger/fabric-ca:1.5.15
====> List out hyperledger Images
ghr.io/hyperledger/fabric-peer      2.5.12  63a9820373a4  3 months ago  151MB
hyperledger/fabric-peer            2.5   63a9820373a4  3 months ago  151MB
hyperledger/fabric-peer            2.5.12  63a9820373a4  3 months ago  151MB
hyperledger/fabric-peer            latest  63a9820373a4  3 months ago  151MB
hyperledger/fabric-orderer        2.5   d69cac8bbe84  3 months ago  118MB
hyperledger/fabric-orderer        2.5.12  d69cac8bbe84  3 months ago  118MB
hyperledger/fabric-orderer        latest  d69cac8bbe84  3 months ago  118MB
ghr.io/hyperledger/fabric-orderer 2.5.12  d69cac8bbe84  3 months ago  118MB
hyperledger/fabric-ccenv           2.5   a39894456867  3 months ago  676MB
hyperledger/fabric-ccenv           2.5.12  a39894456867  3 months ago  676MB
hyperledger/fabric-ccenv           latest  a39894456867  3 months ago  676MB
ghr.io/hyperledger/fabric-ccenv   2.5.12  a39894456867  3 months ago  676MB
ghr.io/hyperledger/fabric-baseos  2.5.12  32d16a66e457  3 months ago  142MB
hyperledger/fabric-baseos          2.5   32d16a66e457  3 months ago  142MB
hyperledger/fabric-baseos          2.5.12  32d16a66e457  3 months ago  142MB
hyperledger/fabric-baseos          latest  32d16a66e457  3 months ago  142MB
hyperledger/fabric-ca              1.5   03492c5437b1  4 months ago  225MB
hyperledger/fabric-ca              1.5.15  03492c5437b1  4 months ago  225MB
hyperledger/fabric-ca              latest  03492c5437b1  4 months ago  225MB
ghr.io/hyperledger/fabric-ca      1.5.15  03492c5437b1  4 months ago  225MB
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger#
```

```
Jun 19 20:57
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger# ./install-fabric.sh docker samples binary
Status: Image is up to date for ghr.io/hyperledger/fabric-peer:2.5.12
ghr.io/hyperledger/fabric-peer:2.5.12
====> ghr.io/hyperledger/fabric-orderer:2.5.12
2.5.12: Pulling from hyperledger/fabric-orderer
Digest: sha256:a91a378ed13de92d1566781de6e60baaca42265076f96b5921ad03b25184c6a
Status: Image is up to date for ghr.io/hyperledger/fabric-orderer:2.5.12
ghr.io/hyperledger/fabric-orderer:2.5.12
====> ghr.io/hyperledger/fabric-ccenv:2.5.12
2.5.12: Pulling from hyperledger/fabric-ccenv
Digest: sha256:72bda013702ad5a103c00eb58617110da69c496b60993e35c9d9e09c1a338e
Status: Image is up to date for ghr.io/hyperledger/fabric-ccenv:2.5.12
ghr.io/hyperledger/fabric-ccenv:2.5.12
====> ghr.io/hyperledger/fabric-baseos:2.5.12
2.5.12: Pulling from hyperledger/fabric-baseos
Digest: sha256:f0dab804cd484e35c2303395c6ce850e3d000b77d86b25d2116cbc67f8b6ff
Status: Image is up to date for ghr.io/hyperledger/fabric-baseos:2.5.12
ghr.io/hyperledger/fabric-baseos:2.5.12
====> ghr.io/hyperledger/fabric-ca:1.5.15
1.5.15: Pulling from hyperledger/fabric-ca
Digest: sha256:47a4861f820e659372510b72c1e8b141563743e1f584008c894ded1df9253c68
Status: Image is up to date for ghr.io/hyperledger/fabric-ca:1.5.15
ghr.io/hyperledger/fabric-ca:1.5.15
====> List out hyperledger Images
ghr.io/hyperledger/fabric-peer      2.5.12  63a9820373a4  3 months ago  151MB
hyperledger/fabric-peer            2.5   63a9820373a4  3 months ago  151MB
hyperledger/fabric-peer            2.5.12  63a9820373a4  3 months ago  151MB
hyperledger/fabric-peer            latest  63a9820373a4  3 months ago  151MB
hyperledger/fabric-orderer        2.5   d69cac8bbe84  3 months ago  118MB
hyperledger/fabric-orderer        2.5.12  d69cac8bbe84  3 months ago  118MB
hyperledger/fabric-orderer        latest  d69cac8bbe84  3 months ago  118MB
ghr.io/hyperledger/fabric-orderer 2.5.12  d69cac8bbe84  3 months ago  118MB
hyperledger/fabric-ccenv           2.5   a39894456867  3 months ago  676MB
hyperledger/fabric-ccenv           2.5.12  a39894456867  3 months ago  676MB
hyperledger/fabric-ccenv           latest  a39894456867  3 months ago  676MB
ghr.io/hyperledger/fabric-ccenv   2.5.12  a39894456867  3 months ago  676MB
ghr.io/hyperledger/fabric-baseos  2.5.12  32d16a66e457  3 months ago  142MB
hyperledger/fabric-baseos          2.5   32d16a66e457  3 months ago  142MB
hyperledger/fabric-baseos          2.5.12  32d16a66e457  3 months ago  142MB
hyperledger/fabric-baseos          latest  32d16a66e457  3 months ago  142MB
hyperledger/fabric-ca              1.5   03492c5437b1  4 months ago  225MB
hyperledger/fabric-ca              1.5.15  03492c5437b1  4 months ago  225MB
hyperledger/fabric-ca              latest  03492c5437b1  4 months ago  225MB
ghr.io/hyperledger/fabric-ca      1.5.15  03492c5437b1  4 months ago  225MB
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger# cd fabric-samples/test-network
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger/fabric-samples/test-network$
```

```

Jun 19 2059
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger/fabric-samples/test-network#
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger/fabric-samples/test-network# ./network.sh -h
Using docker and docker-compose
Usage:
network.sh <Mode> [Flags]
Modes:
prereq - Install Fabric binaries and docker images
up - Bring up Fabric orderer and peer nodes. No channel is created
up createChannel - Bring up fabric network with one channel
createChannel - Create and join a channel after the network is created
deployCC - Deploy a chaincode to a channel (defaults to asset-transfer-basic)
cc - chaincode functions, use "network.sh cc -h" for options
down - Bring down the network

Flags:
Used with network.sh prereq
-i   FabricVersion (default: '2.5.13')
-ccal  Fabric CA Version (default: '1.5.15')

Used with network.sh up, network.sh createChannel:
-ca - Use Certificate Authorities to generate network crypto material
-cfssl -use CFSSL - Use CFSSL CA to generate network crypto material
-bft - Use Orderers with consensus type BFT (Not available in Fabric v2.x)
-c <channel name> - Name of channel to create (defaults to "mychannel")
-s <dbtype> - Peer state database to deploy: goleveldb (default) or couchdb
-r <max retry> - CLI times out after certain number of attempts (defaults to 5)
-d <delay> - CLI delays for a certain number of seconds (defaults to 3)
-verbose - Verbose mode

Used with network.sh deployCC:
-c <channel name> - Name of channel to deploy chaincode to
-ccn <name> - Chaincode name
-ccl <language> - Programming language of the chaincode to deploy: go, java, javascript, typescript
-ccv <version> - Chaincode version. 1.0 (default), v2, version3.x, etc
-ccs <sequence> - Chaincode definition sequence. Must be auto (default) or an integer, 1 , 2, 3, etc
-ccp <path> - File path to the chaincode.
-cccp <policy> - (Optional) Chaincode endorsement policy using signature policy syntax. The default policy requires an endorsement from Org1 and Org2
-cccg <collection-config> - (Optional) File path to private data collections configuration file
-cci <fcn name> - (Optional) Name of chaincode initialization function. When a function is provided, the execution of init will be requested and the function will be invoked.

-h - Print this message

Possible Mode and flag combinations
up -ca -r -d -s -verbose
up -bft -r -d -s -verbose
up createChannel -ca -c -r -d -s -verbose
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network#
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network# ./network.sh -h
Using docker and docker-compose
Usage:
network.sh <Mode> [Flags]
Modes:
prereq - Install Fabric binaries and docker images
up - Bring up Fabric orderer and peer nodes. No channel is created
up createChannel - Bring up fabric network with one channel
createChannel - Create and join a channel after the network is created
deployCC - Deploy a chaincode to a channel (defaults to asset-transfer-basic)
cc - chaincode functions, use "network.sh cc -h" for options
down - Bring down the network

Flags:
Used with network.sh prereq
-i   FabricVersion (default: '2.5.13')
-ccal  Fabric CA Version (default: '1.5.15')

Used with network.sh up, network.sh createChannel:
-ca - Use Certificate Authorities to generate network crypto material
-cfssl -use CFSSL - Use CFSSL CA to generate network crypto material
-bft - Use Orderers with consensus type BFT (Not available in Fabric v2.x)
-c <channel name> - Name of channel to create (defaults to "mychannel")
-s <dbtype> - Peer state database to deploy: goleveldb (default) or couchdb
-r <max retry> - CLI times out after certain number of attempts (defaults to 5)
-d <delay> - CLI delays for a certain number of seconds (defaults to 3)
-verbose - Verbose mode

Used with network.sh deployCC:
-c <channel name> - Name of channel to deploy chaincode to
-ccn <name> - Chaincode name
-ccl <language> - Programming language of the chaincode to deploy: go, java, javascript, typescript
-ccv <version> - Chaincode version. 1.0 (default), v2, version3.x, etc
-ccs <sequence> - Chaincode definition sequence. Must be auto (default) or an integer, 1 , 2, 3, etc
-ccp <path> - File path to the chaincode.
-cccp <policy> - (Optional) Chaincode endorsement policy using signature policy syntax. The default policy requires an endorsement from Org1 and Org2
-cccg <collection-config> - (Optional) File path to private data collections configuration file
-cci <fcn name> - (Optional) Name of chaincode initialization function. When a function is provided, the execution of init will be requested and the function will be invoked.

-h - Print this message

Possible Mode and flag combinations
up -ca -r -d -s -verbose
up -bft -r -d -s -verbose
up createChannel -ca -c -r -d -s -verbose

```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

Flags:
Used with network.sh prereq
-i      FabricVersion (default: '2.5.13')
-cai    Fabric CA Version (default: '1.5.15')

Used with network.sh up, network.sh createChannel:
-ca - Use Certificate Authorities to generate network crypto material
-cfssl -use CFSSLs - Use CFSSL CA to generate network crypto material
-bft - Use Orderers with consensus type BFT (Not available in Fabric v2.x)
-c <channel name> - Name of channel to create (defaults to 'mychannel')
-s <DbType> - Peer state database to deploy: goleveldb (default) or couchdb
-r <max retries> - CLI times out after certain number of attempts (defaults to 5)
-d <delay> - CLI delays for a certain number of seconds (defaults to 3)
-verbose - Verbose mode

Used with network.sh deployCC:
-c <channel name> - Name of channel to deploy chaincode to
-ccn <name> - Chaincode name
-ccl <language> - Programming language of the chaincode to deploy: go, java, javascript, typescript
-ccv <version> - Chaincode version. 1.0 (default), v2, version3.x, etc
-ccs <sequence> - Chaincode definition sequence. Must be auto (default) or an integer, 1 , 2, 3, etc
-ccp <path> - File path to the chaincode.
-cccp <policy> - (Optional) Chaincode endorsement policy using signature policy syntax. The default policy requires an endorsement from Org1 and Org2
-cccg <collection-config> - (Optional) File path to private data collections configuration file
-cci <fn name> - (Optional) Name of chaincode initialization function. When a function is provided, the execution of init will be requested and the function will be invoked.

-h - Print this message

Possible Mode and flag combinations
-up -ca -r -d -s -verbose
-up -bft -r -d -s -verbose
-up createChannel -ca -c -r -d -s -verbose
-up createChannel -bft -c -r -d -s -verbose
-createChannel -bft -c -r -d -verbose
-deployCC -ccn -ccl -ccv -ccs -ccp -cci -r -d -verbose

Examples:
network.sh sh up createChannel -ca -c mychannel -s couchdb
network.sh sh createChannel -c channelName
network.sh sh deployCC -ccn basic -ccp ./asset-transfer-basic/chaincode-javascript/ -ccl javascript
network.sh sh deployCC -ccn mychaincode -ccp ./user/mychaincode -ccv 1 -ccl javascript

NOTE: Default settings can be changed in network.config
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

```

```

root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger/fabric-samples/test-network# ./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=v2.5.12
DOCKER_IMAGE_VERSION=v2.5.12
/home/trushang/Desktop/hyperledger/fabric-samples/test-network/../bin/cryptogen
  Creating 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
+ 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 peer0.org2.example.com ... done
Creating orderer.example.com ... done
CONTAINER ID  IMAGE                                COMMAND     CREATED            NAMES
4c1fbfd9b10  hyperledger/fabric-peer:latest    "peer node start"   Less than a second ago   Up Less than a second   peer0.org2.example.com
0.0.0:9445->9445/tcp, [::]:9445->9445/tcp
6971c7a0ccb6  hyperledger/fabric-orderer:latest  "orderer"      Less than a second ago   Up Less than a second   orderer.example.com
->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp
ce696a14689  hyperledger/fabric-peer:latest    "peer node start"   Less than a second ago   Up Less than a second   peer0.org1.example.com
->9444/tcp, [::]:9444->9444/tcp
ac47198bc689  hello-world                         "/hello"      37 minutes ago       Exited (0) 37 minutes ago
cranky_bassi
dde401513b04  hello-world                         "/hello"      About an hour ago    Exited (0) About an hour ago
youthful_einstein
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger/fabric-samples/test-network# 

```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./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=v2.5.12
DOCKER_IMAGE_VERSION=v2.5.12
/home/trushang/Desktop/hyperledger/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
Starting peer0.org2.example.com ... done
Starting orderer.example.com ... done
Starting peer0.org1.example.com ... done
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
4c1fbfd8b10 hyperledger/fabric-peer:latest "peer node start" 46 hours ago Up Less than a second 0.0.0.0:9051->9051/tcp, [::]:9051->9051/tcp, 7051/tcp, 0.0.0.0:9445->9445/tcp
5/tcp, [::]:9445->9445/tcp
6971c7a0ccb6 hyperledger/fabric-orderer:latest "orderer" 46 hours ago Up Less than a second 0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7053->7053/tcp, [::]:7053->7053/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp
ceb96af14689 hyperledger/fabric-peer:latest "peer node start" 46 hours ago Up Less than a second 0.0.0.0:7051->7051/tcp, [::]:7051->7051/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp
ac4719bbc689 hello-world "/hello" 47 hours ago Exited (0) 47 hours ago
dde401513b04 hello-world "/hello" 47 hours ago Exited (0) 47 hours ago
youthful_einstein
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

```

```

root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger/fabric-samples/test-network# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
4c1fbfd8b10 hyperledger/fabric-peer:latest "peer node start" 2 minutes ago Up 2 minutes 0.0.0.0:9051->9051/tcp, [::]:9051->9051/tcp, 7051/tcp, 0.0.0.0:9445->9445/tcp, [::]:9445->9445/tcp
6971c7a0ccb6 hyperledger/fabric-orderer:latest "orderer" 2 minutes ago Up 2 minutes 0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7053->7053/tcp, [::]:7053->7053/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp
53/tcp, 0.0.0.0:9443->9443/tcp, [::]:9443->9443/tcp
ceb96af14689 hyperledger/fabric-peer:latest "peer node start" 2 minutes ago Up 2 minutes 0.0.0.0:7051->7051/tcp, [::]:7051->7051/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp
peer0.org1.example.com
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger/fabric-samples/test-network# 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
4c1fbfd8b10 hyperledger/fabric-peer:latest "peer node start" 46 hours ago Up 9 minutes 0.0.0.0:9051->9051/tcp, [::]:9051->9051/tcp, 7051/tcp, 0.0.0.0:9445->9445/tcp, [::]:9445->9445/tcp
6971c7a0ccb6 hyperledger/fabric-orderer:latest "orderer" 46 hours ago Up 9 minutes 0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7053->7053/tcp, [::]:7053->7053/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp
3/tcp, 0.0.0.0:9443->9443/tcp, [::]:9443->9443/tcp
ceb96af14689 hyperledger/fabric-peer:latest "peer node start" 46 hours ago Up 9 minutes 0.0.0.0:7051->7051/tcp, [::]:7051->7051/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp
peer0.org1.example.com
root@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ 

```

```

Jun 19 21:03
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger/fabric-samples/test-network
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger/fabric-samples/test-network# ./network.sh createChannel
Using docker and docker-compose
Creating channel 'mychannel'.
If network is not up, starting nodes with CLI timeout of '5' tries and CLI delay of '3' seconds and using database 'leveldb'
Bringing up network
LOCAL_VERSION=v2.5.12
DOCKER_IMAGE_VERSION=v2.5.12
peer0.org1.example.com is up-to-date
peer0.org2.example.com is up-to-date
orderer.example.com is up-to-date
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
4c1fbfd8b10 hyperledger/fabric-peer:latest "peer node start" 2 minutes ago Up 2 minutes 0.0.0.0:9051->9051/tcp, [::]:9051->9051/tcp, 7051/tcp, 0.0.0.0:9445->9445/tcp, [::]:9445->9445/tcp
6971c7a0ccb6 hyperledger/fabric-orderer:latest "orderer" 2 minutes ago Up 2 minutes 0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7053->7053/tcp, [::]:7053->7053/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp
3/tcp, [::]:7053->7053/tcp, 0.0.0.0:9443->9443/tcp, [::]:9443->9443/tcp
ceb96af14689 hyperledger/fabric-peer:latest "peer node start" 2 minutes ago Up 2 minutes 0.0.0.0:7051->7051/tcp, [::]:7051->7051/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp
4/tcp, [::]:9444->9444/tcp
ac4719bbc689 hello-world "/hello" 40 minutes ago Exited (0) 40 minutes ago
dde401513b04 hello-world "/hello" About an hour ago Exited (0) About an hour ago
youthful_einstein

Using docker and docker-compose
Generating channel genesis block 'mychannel.block'
Using organization 1
/home/trushang/Desktop/hyperledger/fabric-samples/test-network/../bin/configtxgen
+ '[' 0 -eq 1 ']'
+ configtxgen -profile ChannelRaftRaft -outputBlock ./channel-artifacts/mychannel.block -channelID mychannel
2025-06-19 21:02:37.199 IST 0001 INFO [common.tools.configtxgen] main -> Loading configuration
2025-06-19 21:02:37.199 IST 0002 INFO [common.tools.configtxgen.localconfig] completeInitialization -> orderer type: etcdraft
2025-06-19 21:02:37.199 IST 0003 INFO [common.tools.configtxgen.localconfig] completeInitialization -> Orderer.EtcdRaft.Options unset, setting to tick_interval:"500ms" election_tick:10
heartbeat_tick:1 max_inflight_blocks:5 snapshot_interval_size:16777216
2025-06-19 21:02:37.199 IST 0004 INFO [common.tools.configtxgen.localconfig] Load -> Loaded configuration: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/configtx/configtx.yaml
2025-06-19 21:02:37.200 IST 0005 INFO [common.tools.configtxgen] doOutputBlock -> Generating genesis block
2025-06-19 21:02:37.200 IST 0006 INFO [common.tools.configtxgen] doOutputBlock -> Creating application channel genesis block
2025-06-19 21:02:37.201 IST 0007 INFO [common.tools.configtxgen] doOutputBlock -> Writing genesis block
+ res=0
Creating channel mychannel
Adding orderers
+ ./scripts/orderer.sh mychannel
+ '[' 0 -eq 1 ']'
+ res=0
Status: 201
{
    "name": "mychannel"
}

```

```
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh createChannel
Using docker and docker-compose
Creating channel 'mychannel'.
If network is not up, starting nodes with CLI timeout of '5' tries and CLI delay of '3' seconds and using database 'leveldb'
Bringing up network
LOCAL_VERSION=v2.5.12
DOCKER_IMAGE_VERSION=v2.5.12
peer0.org2.example.com is up-to-date
orderer.example.com is up-to-date
peer0.org1.example.com is up-to-date
CONTAINER ID IMAGE COMMAND NAMES CREATED STATUS PORTS
d4027c75f81b hyperledger/fabric-orderer:latest "orderer" 6 seconds ago Up 5 seconds 0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7053->7053/tcp, [:]
...:7053->7053/tcp, 0.0.0.0:9443->9443/tcp, [::]:9443->9443/tcp orderer.example.com
9153b1ff6468 hyperledger/fabric-peer:latest "peer node start" 6 seconds ago Up 5 seconds 0.0.0.0:7051->7051/tcp, [::]:7051->7051/tcp, 0.0.0.0:9444->9444/tcp, [:]
...:9444->9444/tcp
baeaa0@55555 hyperledger/fabric-peer:latest "peer node start" 6 seconds ago Up 5 seconds 0.0.0.0:9051->9051/tcp, [::]:9051->9051/tcp, 7051/tcp, 0.0.0.0:9445->9445/tcp, [:]
...:9445->9445/tcp
ac47198bbc689 hello-world "/hello" 47 hours ago Exited (0) 47 hours ago
dde401513b04 hello-world "/hello" 2 days ago Exited (0) 2 days ago
cranky_bassi
youthful_einstein

Using docker and docker-compose
Generating channel genesis block 'mychannel.block'
Using organization 1
/home/trushang/Desktop/hyperledger/fabric-samples/test-network../bin/configtxgen
+ '[' 0 -eq 1 ']'
+ configtxgen -profile ChannelUsingRaft -outputBlock ./channel-artifacts/mychannel.block -channelID mychannel
[2025-06-21 19:29:44.159 IST 0001 INFO [common.tools.configtxgen] main] Loading configuration
[2025-06-21 19:29:44.205 IST 0002 INFO [common.tools.configtxgen.localconfig] completeInitialization -> orderer type: etcraft
[2025-06-21 19:29:44.205 IST 0003 INFO [common.tools.configtxgen.localconfig] completeInitialization -> Orderer.EtcRaft.Options unset, setting to tick_interval:"500ms" election_tick:10
heartbeat_tick:1 max_inflight_blocks:5 snapshot_size:16777216
[2025-06-21 19:29:44.205 IST 0004 INFO [common.tools.configtxgen.localconfig] Load -> Loaded configuration: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/configtx/configtx.yaml
[2025-06-21 19:29:44.207 IST 0005 INFO [common.tools.configtxgen] doOutputBlock -> Generating genesis block
[2025-06-21 19:29:44.207 IST 0006 INFO [common.tools.configtxgen] doOutputBlock -> Creating application channel genesis block
[2025-06-21 19:29:44.207 IST 0007 INFO [common.tools.configtxgen] doOutputBlock -> Writing genesis block
+ res=0
+ creating channel mychannel
Adding orderers
+ . scripts/orderer.sh mychannel
+ '[' 0 -eq 1 ']'
+ res=0
Status: 201
{
  "name": "mychannel"
}
```

```
root@trushang-HP-Laptop-15s-fr5xxx:/home/trushang/Desktop/hyperledger/fabric-samples/test-network Jun 19 21:03

+ . scripts/orderer.sh mychannel
+ '[' 0 -eq 1 ']'
+ res=0
Status: 201
{
    "name": "mychannel",
    "url": "/participation/v1/channels/mychannel",
    "consensusRelation": "consenter",
    "status": "active",
    "height": 1
}

Channel 'mychannel' created
Joining org1 peer to the channel...
Using organization 1
+ peer channel join -b ./channel-artifacts/mychannel.block
+ res=0
2025-06-19 21:02:43.377 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-19 21:02:43.420 IST 0002 INFO [channelCmd] executeJoin -> Successfully submitted proposal to join channel
Joining org2 peer to the channel...
Using organization 2
+ peer channel join -b ./channel-artifacts/mychannel.block
+ res=0
2025-06-19 21:02:46.500 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-19 21:02:46.613 IST 0002 INFO [channelCmd] executeJoin -> Successfully submitted proposal to join channel
Setting anchor peer for org1...
Using organization 1
Fetching channel config for channel mychannel
Using organization 1
Fetching the most recent configuration block for the channel
++ peer channel fetch config /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com -c mychannel -tls -cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem
2025-06-19 21:02:46.691 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-19 21:02:46.695 IST 0002 INFO [cliCommon] readBlock -> Received block: 0
2025-06-19 21:02:46.696 IST 0003 INFO [channelCmd] fetch -> Retrieving last config block: 0
2025-06-19 21:02:46.697 IST 0004 INFO [cliCommon] readBlock -> Received block: 0
Decoding config block to JSON and isolating config to /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPConfig.json
++ configtxlator proto_decode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb --type common.Block --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ jq '.data.data[0].payload.data.config' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ res=0
Generating anchor peer update transaction for Org1 on channel mychannel
++ jq '.channel_group.groups.Application.groups.Org1MSP.values += {"AnchorPeers":{"mod_policy": "Admins","value":{"anchor_peers": [{"host": "peer0.org1.example.com","port": 7051}]}},{"version": 0}' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPConfig.json
++ res=0
++ configtxlator proto_encode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPConfig.json --type common.Config --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPConfig.yaml
```

```
trushang@trushang-HP-Laptop-15s-fr5xxx: ~/Desktop/hyperledger/fabric-samples/test-network

status: 201
{
  "name": "mychannel",
  "url": "/participation/v1/channels/mychannel",
  "consensusRelation": "consenter",
  "status": "active",
  "height": 1
}

Channel 'mychannel' created
Joining org1 peer to the channel...
Using organization 1
+ peer channel join -b ./channel-artifacts/mychannel.block
+ res=0
2025-06-21 19:29:50.369 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-21 19:29:50.410 IST 0002 INFO [channelCmd] executeJoin -> Successfully submitted proposal to join channel
Joining org2 peer to the channel...
Using organization 2
+ peer channel join -b ./channel-artifacts/mychannel.block
+ res=0
2025-06-21 19:29:53.493 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-21 19:29:53.536 IST 0002 INFO [channelCmd] executeJoin -> Successfully submitted proposal to join channel
Setting anchor peer for org1...
Using organization 1
Fetching channel config for channel mychannel
Using organization 1
Fetching the most recent configuration block for the channel
++ peer channel fetch config /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --mychannel --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem
2025-06-21 19:29:53.604 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-21 19:29:53.608 IST 0002 INFO [cli_common] readBlock -> Received block: 0
2025-06-21 19:29:53.609 IST 0003 INFO [channelCmd] fetch -> Retrieving last config block: 0
2025-06-21 19:29:53.619 IST 0004 INFO [cli_common] readBlock -> Received block: 0
Decoding config block to JSON and isolating config to /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPconfig.json
++ configtxlator proto_decode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb --type common.Block --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ jq '.data.data[0].payload.data.config' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
+ res=0
Generating anchor peer update transaction for Org1 on channel mychannel
++ jq '.channel_group.groups.Application.groups.Org1MSP.values += [{"AnchorPeers":{"mod_policy": "Admins", "value": {"anchor_peers": [{"host": "peer0.org1.example.com", "port": 7051}]}}, "version": "0"}]' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPconfig.json
++ res=0
++ configtxlator proto_encode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPconfig.json --type common.Config --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/original_config.pb
++ configtxlator proto_encode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPmodified_config.json --type common.Config --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/modified_config.pb
```

```
[root@trushang-HP-Laptop-15s-fr5xxx ~]# ./channel_group.sh -c mychannel -o Org1MSP -f ./Org1MSPConfig.json -s ./Org1MSPConfig.pb -r ./Org1MSPModifiedConfig.pb -u ./Org1MSPConfigUpdate.pb -i ./Org1MSPConfigUpdateInEnvelope.json -d ./Org1MSPConfigBlock.pb
```



```
trushang@trushang-HP-Laptop-15s-fr5xxx: ~/Desktop/hyperledger/fabric-samples/test-network$ go version
go version go1.22.2 linux/amd64
trushang@trushang-HP-Laptop-15s-fr5xxx: ~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh deployCC -ccn basic -ccp ..asset-transfer-basic/chaincode-go -ccl go
Using docker and docker-compose
deploying 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: auto
- CC_END_POLICY: NA
- CC_COLL_CONFIG: NA
- CC_INIT_FCN: NA
- DELAY: 3
- MAX_RETRY: 5
- VERBOSE: false
executing with the following
- CC_NAME: basic
- CC_SRC_PATH: ../asset-transfer-basic/chaincode-go
- CC_SRC_LANGUAGE: go
- CC_VERSION: 1.0
Rendering Go dependencies at ../asset-transfer-basic/chaincode-go
~/Desktop/hyperledger/asset-transfer-basic/chaincode-go -~/Desktop/hyperledger/fabric-samples/test-network
go: downloading go1.23.0 (linux/amd64)
go: downloading github.com/hyperledger/fabric-contract-api-go/v2 v2.2.0
go: downloading github.com/hyperledger/fabric-protos-go/apiV2 v0.3.4
go: downloading google.golang.org/protobuf v1.36.4
go: downloading github.com/hyperledger/fabric-chaincode-go/v2 v2.0.0
go: downloading github.com/stretchr/testify v1.10.0
go: downloading github.com/davech/gospew v1.1.1
go: downloading github.com/pmezard/go-difflib v1.0.0
go: downloading gopkg.in/yaml.v3 v3.0.1
go: downloading google.golang.org/grpc v1.71.0
go: downloading github.com/xipipuu/poisonschema v1.2.0
go: downloading github.com/go-openapi/spec v0.21.0
go: downloading github.com/xipipuu/poisontreference v0.0.0-20180127040603-bd5ef7bd5415
go: downloading github.com/xipipuu/poisontpointer v0.0.0-20190905194746-02993c407fb
go: downloading github.com/go-openapi/swag v0.23.0
go: downloading github.com/go-openapi/jsonpointer v0.21.0
go: downloading github.com/go-openapi/jsonreference v0.21.0
go: downloading github.com/mikeir/easyjson/v0.7.7
go: downloading golang.org/x/nfs v0.34.0
go: downloading golang.org/x/sys v0.29.0
```

```

trushang@trushang-HP-Laptop-15s-fr5xx:~/Desktop/hyperledger/fabric-samples/test-network
go: downloading golang.org/x/text v0.21.0
~/Desktop/hyperledger/fabric-samples/test-network
Finished vendorizing Go dependencies
+ '[' false = true ']'
+ peer lifecycle chaincode package basic.tar.gz --path ../asset-transfer-basic/chaincode-go --lang golang --label basic_1.0
+ res=0
Chaincode is packaged
Installing chaincode on peer0.org1...
Using organization 1
+ peer lifecycle chaincode queryinstalled --output json
+ jq -r 'try (.installed_chaincodes[],.package_id)'
+ grep '^basic_1.0:6a6f743366675481339c7ddda5f281a441c9ad8c13e32a9a5c07b892e44de10$'
+ test 1 -ne 0
+ peer lifecycle chaincode install basic.tar.gz
+ res=0
[025 06-21 20:36:34.297 IST 0001 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Installed remotely: response:<status:200 payload:"\n]basic_1.0:6a6f743366675481339c7ddda5f281a441c9ad8c13e32a9a5c07b892e44de10$>
[025 06-21 20:36:34.298 IST 0002 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Chaincode code package identifier: basic_1.0:6a6f743366675481339c7ddda5f281a441c9ad8c13e32a9a5c07b892e44de105
Chaincode is installed on peer0.org1
Install chaincode on peer0.org2...
Using organization 2
+ peer lifecycle chaincode queryinstalled --output json
+ jq -r 'try (.installed_chaincodes[],.package_id)'
+ grep '^basic_1.0:6a6f743366675481339c7ddda5f281a441c9ad8c13e32a9a5c07b892e44de10$'
+ test 1 -ne 0
+ peer lifecycle chaincode install basic.tar.gz
+ res=0
[025 06-21 20:36:49.603 IST 0001 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Installed remotely: response:<status:200 payload:"\n]basic_1.0:6a6f743366675481339c7ddda5f281a441c9ad8c13e32a9a5c07b892e44de10$>
[025 06-21 20:36:49.603 IST 0002 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Chaincode code package identifier: basic_1.0:6a6f743366675481339c7ddda5f281a441c9ad8c13e32a9a5c07b892e44de105
Chaincode is installed on peer0.org2
++ peer lifecycle chaincode querycommitted --channelID mychannel --name basic
++ sed -n '/Version:/{s/.*/Sequence: /; s/ /; p;}'
Error: query failed with status: 404 - namespace basic is not defined
+ COMMITTED_CC_SEQUENCE=
+ res=0
Using organization 1
+ peer lifecycle chaincode queryinstalled --output json
+ jq -r 'try (.installed_chaincodes[],.package_id)'
+ grep '^basic_1.0:6a6f743366675481339c7ddda5f281a441c9ad8c13e32a9a5c07b892e44de10$'
+ res=0
basic_1.0:6a6f743366675481339c7ddda5f281a441c9ad8c13e32a9a5c07b892e44de105
query installed successful on peer0.org1 on channel
trushang@trushang-HP-Laptop-15s-fr5xx:~/Desktop/hyperledger/fabric-samples/test-network
Query installed successful on peer0.org1 on channel
Using organization 1
+ peer lifecycle chaincode approveformyorg -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name basic --version 1.0 --package-id basic_1.0:6a6f743366675481339c7ddda5f281a441c9ad8c13e32a9a5c07b892e44de105 --sequence 1
+ res=0
[025 06-21 20:36:51.871 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [528f11553cb90fe394eec1c7470c5bc6b494f994dacf3cd6a90e07d3fc768ac] committed with status (VALID) at localhost:7051
51
Chaincode definition approved on peer0.org1 on channel 'mychannel'
Using organization 1
Checking the commit readiness of the chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org1, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name basic --version 1.0 --sequence 1 --output json
+ res=0
{
  "approvals": {
    "Org1MSP": true,
    "Org2MSP": false
  }
}
Checking the commit readiness of the chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Checking the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name basic --version 1.0 --sequence 1 --output json
+ res=0
{
  "approvals": {
    "Org1MSP": true,
    "Org2MSP": false
  }
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
+ peer lifecycle chaincode approveformyorg -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name basic --version 1.0 --package-id basic_1.0:6a6f743366675481339c7ddda5f281a441c9ad8c13e32a9a5c07b892e44de105 --sequence 1
+ res=0
[025 06-21 20:37:00.179 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [036aea1bc26fcf76957ab72da1c84527b21fba056ad7a35703b907da4cf9cdfa] committed with status (VALID) at localhost:9051
51
Chaincode definition approved on peer0.org2 on channel 'mychannel'
Using organization 1
Checking the commit readiness of the chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org1, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name basic --version 1.0 --sequence 1 --output json
+ res=0

```

```
trushang@trushang-HP-Laptop-15s-fr5xxx: ~/Desktop/hyperledger/fabric-samples/test-network
+ res=0
{
    "approvals": {
        "Org1MSP": true,
        "Org2MSP": true
    }
}
Checking the commit readiness of the chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Checking the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...
attempting to check the commit readiness of the chaincode definition on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name basic --version 1.0 --sequence 1 --output json
+ res=0
{
    "approvals": {
        "Org1MSP": true,
        "Org2MSP": true
    }
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name basic --peerAddresses localhost:7051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1.0 --sequence 1
+ res=0
2025-06-21 20:37:08.652 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [6c326088b611f38f6213909918f970c4aa06d8e84c07279760b48f53e1812f6] committed with status (VALID) at localhost:7051
2025-06-21 20:37:08.669 IST 0002 INFO [chaincodeCmd] ClientWait -> txid [6c326088b611f38f6213909918f970c4aa06d8e84c07279760b48f53e1812f6] committed with status (VALID) at localhost:9051
Chaincode definition committed on channel 'mychannel'
Using organization 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: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 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'.
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Committed chaincode definition for chaincode 'basic' on channel 'mychannel'.
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Committed chaincode initialization is not required
trushang@trushang-HP-Laptop-15s-fr5xxx: ~/Desktop/hyperledger/fabric-samples/test-network$
```

```
trushang@trushang-HP-Laptop-15s-fr5xxx: ~/Desktop/hyperledger/fabric-samples/test-network
}

Checking the commit readiness of the chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Checking the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...
attempting to check the commit readiness of the chaincode definition on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name basic --version 1.0 --sequence 1 --output json
+ res=0
{
    "approvals": {
        "Org1MSP": true,
        "Org2MSP": true
    }
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name basic --peerAddresses localhost:7051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1.0 --sequence 1
+ res=0
2025-06-21 20:37:08.652 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [6c326088b611f38f6213909918f970c4aa06d8e84c07279760b48f53e1812f6] committed with status (VALID) at localhost:7051
2025-06-21 20:37:08.669 IST 0002 INFO [chaincodeCmd] ClientWait -> txid [6c326088b611f38f6213909918f970c4aa06d8e84c07279760b48f53e1812f6] committed with status (VALID) at localhost:9051
Chaincode definition committed on channel 'mychannel'
Using organization 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: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 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'.
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Committed chaincode initialization is not required
trushang@trushang-HP-Laptop-15s-fr5xxx: ~/Desktop/hyperledger/fabric-samples/test-network$
```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh down
Using docker and docker-compose
Stopping network
Stopping orderer.example.com ... done
Stopping peer0.org1.example.com ... done
Stopping peer0.org2.example.com ... done
Removing orderer.example.com ... done
Removing peer0.org1.example.com ... done
Removing peer0.org2.example.com ... done
Removing network fabric_test
Removing network compose_default
WARNING: Network compose_default not found.
Removing volume compose_orderer.example.com
Removing volume compose_orderer2.example.com
WARNING: Volume compose_orderer2.example.com not found.
Removing volume compose_orderer3.example.com
WARNING: Volume compose_orderer3.example.com not found.
Removing volume compose_orderer4.example.com
WARNING: Volume compose_orderer4.example.com not found.
Removing volume compose_peer0.org1.example.com
Removing volume compose_peer0.org2.example.com
Removing volume compose_peer0.org3.example.com
WARNING: Volume compose_peer0.org3.example.com not found.
Error response from daemon: get docker_orderer.example.com: no such volume
Error response from daemon: get docker_peer0.org1.example.com: no such volume
Error response from daemon: get docker_peer0.org2.example.com: no such volume
Removing remaining containers
Removing generated chaincode docker images
Untagged: dev-peer0.org2.example.com-basic_1_0-6a6f74336675481339c7ddaf5f281a441c9ad8c13e32a9a5c07b892e44de105-40c3a7fdf72afbf52fbfce04613629ce8b387d562ff30140b3935c60c15aa16f:latest
Deleted: sha256:9310a81b05f044cf95c405caaf4daba2bfe15fa6b29b914facb2dfec0203bc
Deleted: sha256:31aec4bae972850823bc4e816a086e7750a7bdff99dc6b723abc5776e6fde8
Deleted: sha256:4201da42f36e77be671c7e94bec249c987977900b705ec160d8a680d25d76499
Deleted: sha256:63dbc3cbb0451dce671cdcef39c4d0a500e754c29000c059fcc626796b10ef
Untagged: dev-peer0.org1.example.com-basic_1_0-6a6f74336675481339c7ddaf5f281a441c9ad8c13e32a9a5c07b892e44de105-8dafef7780550c0d2556db2fe952165b5fb66ebcf5c5961f724400d8ad29fe0:latest
Deleted: sha256:08c86c8f4aad7a0b9a6d1fd2d78fd696a44120d748eeaa3d244a4f17301201f
Deleted: sha256:ce162f9b2f8fb09a64d79a5269dea2c3c0be0c08817fa7ef0ea6d985d2b8d0
Deleted: sha256:a50fc5e2b9190f29049d362badf1d706e3a4a22bf9bc5387705127094c1c
Deleted: sha256:a50fc5e2b9190f29049d362badf1d706e3a4a22bf9bc5387705127094c1c
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ docker ps -aq
ac47198bc689
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ docker stop $(docker ps -aq)
ac47198bc689
dde401513b04
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ docker rm $(docker ps -aq)
ac47198bc689
dde401513b04
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ docker volume prune
WARNING! This will remove anonymous local volumes not used by at least one container.
Are you sure you want to continue? [y/N] y
Total reclaimed space: 0B
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ export PATH=$PWD/..:$PWD:$PATH
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ cryptogen generate --config=./organizations/cryptogen/crypto-config-org1.yaml --output="organizations"
org1.example.com
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ cryptogen generate --config=./organizations/cryptogen/crypto-config-org2.yaml --output="organizations"
org2.example.com
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ cryptogen generate --config=./organizations/cryptogen/crypto-config-orderer.yaml --output="orderer"
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ export DOCKER_SOCK=/var/run/docker.sock
IMAGE_TAG=latest docker-compose -f compose/compose-test-net.yaml -f compose/docker/docker-compose-test-net.yaml up

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
Attaching to peer0.org1.example.com, peer0.org2.example.com, orderer.example.com
peer0.org2.example.com
peer0.org2.example.com | 2025-06-22 12:37:14.896 UTC 0001 INFO [nodeCmd] serve -> Starting peer:
peer0.org2.example.com | Version: v2.5.12
peer0.org2.example.com | Commit SHA: af0b647
peer0.org2.example.com | Go version: go1.23.5
peer0.org2.example.com | OS/Arch: linux/amd64
peer0.org2.example.com | Chaincode:
peer0.org2.example.com |   Base Docker Label: org.hyperledger.fabric
peer0.org2.example.com |   Docker Namespace: hyperledger
peer0.org1.example.com
peer0.org1.example.com | 2025-06-22 12:37:14.898 UTC 0001 INFO [nodeCmd] serve -> Starting peer:
peer0.org1.example.com | Version: v2.5.12
peer0.org1.example.com | Commit SHA: af0b647
peer0.org1.example.com | Go version: go1.23.5
peer0.org1.example.com | OS/Arch: linux/amd64
peer0.org1.example.com | Chaincode:
peer0.org1.example.com |   Base Docker Label: org.hyperledger.fabric
peer0.org1.example.com |   Docker Namespace: hyperledger
peer0.org1.example.com
peer0.org1.example.com | 2025-06-22 12:37:14.891 UTC 0002 INFO [nodeCmd] serve -> Peer config with combined core.yaml settings and environment variable overrides:
chaincode:
  builder: ${DOCKER_NS}/fabric-ccenv:${TWO_DIGIT_VERSION}
  executeTimeout: 300s
  externalBuilders:
    - name: ccaas_builder
      path: /opt/hyperledger/ccaas_builder
      propagateEnvironment:
        - CHAINCODE_AS_A_SERVICE_BUILDER_CONFIG
  golang:
    dynamicLink: false
    runtime: ${DOCKER_NS}/fabric-baseos:${TWO_DIGIT_VERSION}
  installTimeout: 300s
  java:
    runtime: ${DOCKER_NS}/fabric-javaenv:2.5
  keepalive: 0
  logging:
    format: '%{color}%{time:2006-01-02 15:04:05.000 MST} [%{module}] %{shortfunc}'

```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network
copying...
peer0.org1.example.com
peer0.org1.example.com | format: '%{color}%{time:2006-01-02 15:04:05.000 MST} [%{module}] %{shortfunc}' 
peer0.org1.example.com |   -> %{level:.4s} %{id:03x}(%{color:reset}) %{message}' 
peer0.org1.example.com | level: info
peer0.org1.example.com | shim: warning
peer0.org1.example.com | mode: net
peer0.org1.example.com | node:
peer0.org1.example.com |   runtime: ${DOCKER_NS}/Fabric-nodeenv:2.5
peer0.org1.example.com |   pull: false
peer0.org1.example.com |   startupTimeout: 300s
peer0.org1.example.com |   system:
peer0.org1.example.com |     _lifecycle: enable
peer0.org1.example.com |     cscc: enable
peer0.org1.example.com |     lscc: enable
peer0.org1.example.com |     qscc: enable
peer0.org1.example.com | ledger:
peer0.org1.example.com |   history:
peer0.org1.example.com |     enableHistoryDatabase: true
peer0.org1.example.com |   pvtdatastore:
peer0.org1.example.com |     collectProcDBBatchesInterval: 1000
peer0.org1.example.com |     collectProcMaxDBBatchSize: 5000
peer0.org1.example.com |     deprioritizeDDataReconcilerInterval: 60m
peer0.org1.example.com | snapshots:
peer0.org1.example.com |   rootDir: /var/hyperledger/production/snapshots
peer0.org1.example.com | state:
peer0.org1.example.com |   couchDBConfig:
peer0.org1.example.com |     cacheSize: 64
peer0.org1.example.com |     couchDBAddress: 127.0.0.1:5984
peer0.org1.example.com |     createGlobalChangesDB: false
peer0.org1.example.com |     internalQueryLimit: 1000
peer0.org1.example.com |     maxBatchUpdateSize: 1000
peer0.org1.example.com |     maxRetries: 3
peer0.org1.example.com |     maxRetriesOnStartup: 10
peer0.org1.example.com |     requestTimeout: 35s
peer0.org1.example.com |     stateDatabase: goleveldb
peer0.org1.example.com |     totalQueryLimit: 100000
peer0.org1.example.com |   logging_level: ""
peer0.org1.example.com |   metrics:
peer0.org1.example.com |     provider: prometheus
peer0.org1.example.com |   statsd:
peer0.org1.example.com |     address: 127.0.0.1:8125
peer0.org1.example.com |   network: udp
peer0.org1.example.com |   writeInterval: 10s
operations:
  listenAddress: peer0.org1.example.com:9444
tls:

```

```
trushang@trushang-HP-Laptop-15s-fr5xxx: ~/Desktop/hyperledger/fabric-samples/test-network
peer0.org1.example.com endpoint: unix:///host/var/run/docker.sock
peer0.org2.example.com 2025-06-22 12:37:14.892 UTC 0002 INFO [nodeCmd] serve -> Peer config with combined core.yaml settings and environment variable overrides:
peer0.org2.example.com chaincode:
peer0.org2.example.com builder: ${DOCKER_NS}/Fabric-ccenv:${TWO_DIGIT_VERSION}
peer0.org2.example.com executeTimeout: 300s
peer0.org2.example.com externalBuilders:
peer0.org2.example.com - name: ccaas_builder
peer0.org2.example.com path: /opt/hyperledger/ccaas_builder
peer0.org2.example.com propagateEnvironment:
peer0.org2.example.com - CHAINCODE_AS_A_SERVICE_BUILDER_CONFIG
peer0.org2.example.com golang:
peer0.org2.example.com dynamicLink: false
peer0.org2.example.com runtime: ${DOCKER_NS}/Fabric-baseos:${TWO_DIGIT_VERSION}
peer0.org2.example.com installTimeout: 300s
peer0.org2.example.com java:
peer0.org2.example.com runtime: ${DOCKER_NS}/Fabric-javaenv:2.5
peer0.org2.example.com keepalive: 0
peer0.org2.example.com logging:
peer0.org2.example.com format: '%{color}%time:2006-01-02 15:04:05.000 MST] [%{module}] %{shortfunc}'
peer0.org2.example.com -> %{level:.4s} %{id:03x}%{color:reset} %{message}'
peer0.org2.example.com level: info
peer0.org2.example.com shim: warning
peer0.org2.example.com mode: net
peer0.org2.example.com node:
peer0.org2.example.com runtime: ${DOCKER_NS}/Fabric-nodeenv:2.5
peer0.org2.example.com pull: false
peer0.org2.example.com startupTimeout: 300s
peer0.org2.example.com system:
peer0.org2.example.com _lifecycle: enable
peer0.org2.example.com cscc: enable
peer0.org2.example.com lscc: enable
peer0.org2.example.com qscc: enable
peer0.org2.example.com ledger:
peer0.org2.example.com history:
peer0.org2.example.com enableHistoryDatabase: true
peer0.org2.example.com pvtdatadstore:
peer0.org2.example.com collectProcDBBatchesInterval: 1000
peer0.org2.example.com collectProcMaxDBBatchSize: 5000
peer0.org2.example.com depropritizedDataReconcileInterval: 60m
peer0.org2.example.com snapshots:
peer0.org2.example.com rootDir: /var/hyperledger/production/snapshots
peer0.org2.example.com state:
peer0.org2.example.com couchdbConfig:
peer0.org2.example.com cachesize: 64
peer0.org2.example.com couchdbAddress: 127.0.0.1:5984
```

```
trushang@trushang-HP-Laptop-15s-fr5xxx: ~/Desktop/hyperledger/fabric-samples/test-network
peer0.org2.example.com maxElectionStartUp: 10
peer0.org2.example.com requestTimeout: 35s
peer0.org2.example.com stateDatabase: goleveldb
peer0.org2.example.com totalQueryLimit: 100000
peer0.org2.example.com loggingLevel: ""
peer0.org2.example.com metrics:
peer0.org2.example.com provider: prometheus
peer0.org2.example.com statsd:
peer0.org2.example.com address: 127.0.0.1:8125
peer0.org2.example.com network: udp
peer0.org2.example.com writeInterval: 10s
peer0.org2.example.com operations:
peer0.org2.example.com listenAddress: peer0.org2.example.com:9445
peer0.org2.example.com tls:
peer0.org2.example.com clientAuthRequired: false
peer0.org2.example.com clientRootCas:
peer0.org2.example.com files: []
peer0.org2.example.com enabled: false
peer:
peer0.org2.example.com address: peer0.org2.example.com:9051
peer0.org2.example.com addressAutodetect: false
peer0.org2.example.com authentication:
peer0.org2.example.com timeWindow: 15m
peer0.org2.example.com bccsp:
peer0.org2.example.com default: SW
peer0.org2.example.com sw:
peer0.org2.example.com hash: SHA2
peer0.org2.example.com security: 256
peer0.org2.example.com client:
peer0.org2.example.com connectTimeout: 3s
peer0.org2.example.com deliveryClient:
peer0.org2.example.com blockGossipEnabled: true
peer0.org2.example.com connectTimeout: 3s
peer0.org2.example.com reconnectBackoffThreshold: 3600s
peer0.org2.example.com reconnectTotalTimeThreshold: 3600s
peer0.org2.example.com discovery:
peer0.org2.example.com authCacheEnabled: true
peer0.org2.example.com authCacheMaxSize: 1000
peer0.org2.example.com authCachePurgeRetentionRatio: 0.75
peer0.org2.example.com enabled: true
peer0.org2.example.com orgMembersAllowedAccess: false
peer0.org2.example.com filesystemPath: /var/hyperledger/production
peer0.org2.example.com gateway:
peer0.org2.example.com dialTimeout: 2m
peer0.org2.example.com enabled: true
peer0.org2.example.com endorsementTimeout: 30s
```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network
```

```

orderer.example.com | General.ListenAddress = "0.0.0.0"
orderer.example.com | General.ListenPort = 7050
orderer.example.com | General.TLS.Enabled = true
orderer.example.com | General.TLS.PrivateKey = "/var/hyperledger/orderer/tls/server.key"
orderer.example.com | General.TLS.Certificate = "/var/hyperledger/orderer/tls/server.crt"
orderer.example.com | General.TLS.RootAs = [/var/hyperledger/orderer/tls/ca.crt]
orderer.example.com | General.TLS.ClientAuthRequired = false
orderer.example.com | General.TLS.ClientRootAs = []
orderer.example.com | General.Cluster.ListenAddress = ""
orderer.example.com | General.Cluster.ListenPort = 0
orderer.example.com | General.Cluster.ServerCertificate = ""
orderer.example.com | General.Cluster.ServerPrivateKey = ""
orderer.example.com | General.Cluster.ClientCertificate = "/var/hyperledger/orderer/tls/server.crt"
orderer.example.com | General.Cluster.ClientPrivateKey = "/var/hyperledger/orderer/tls/server.key"
orderer.example.com | General.Cluster.RootAs = [/var/hyperledger/orderer/tls/ca.crt]
orderer.example.com | General.Cluster.DialTimeout = 5s
orderer.example.com | General.Cluster.RPCTimeout = 7s
orderer.example.com | General.Cluster.ReplicationBufferSize = 20971520
orderer.example.com | General.Cluster.ReplicationPullTimeout = 5s
orderer.example.com | General.Cluster.ReplicationRetryTimeout = 5s
General.Cluster.ReplicationBackgroundRefreshInterval = 5m0s
orderer.example.com | General.Cluster.ReplicationMaxRetries = 12
orderer.example.com | General.Cluster.SendBufferSize = 100
orderer.example.com | General.Cluster.CertExpirationWarningThreshold = 168h0m0s
orderer.example.com | General.Cluster.TLSHandshakeTimeShift = 0s
orderer.example.com | General.Keepalive.ServerMinInterval = 1m0s
General.Keepalive.ServerInterval = 2h0m0s
orderer.example.com | General.Keepalive.ServerTimeout = 20s
General.ConnectionTimeout = 6s
orderer.example.com | General.GenesisMethod = ""
orderer.example.com | General.GenesisFile = ""
General.BootstrapMethod = "none"
General.BootstrapFile = "/etc/hyperledger/fabric/genesisblock"
General.Profile.Enabled = false
General.Profile.Address = "0.0.0.0:6060"
General.LocalMSPDir = "/var/hyperledger/orderer/msp"
General.LocalMSPPID = "OrdererMSP"
General.BCCSP.Default = "SM"
General.BCCSP.SM.Security = 256
General.BCCSP.SM.Hash = "SHA2"
General.BCCSP.SM.FileKeystore.KeyStorePath = ""
General.Authentication.TimeWindow = 15m0s
General.Authentication.NoExpirationChecks = false
General.MaxRecvMsgSize = 104857600
General.MaxSendMsgSize = 104857600
```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network
```

```

peer0.org1.example.com | 2025-06-22 12:37:15.122 UTC 0010 INFO [ledgermgr] NewLedgerMgr -> Initialized LedgerMgr
peer0.org1.example.com | 2025-06-22 12:37:15.125 UTC 0011 INFO [gossip.service] New -> Initialize gossip with endpoint peer0.org1.example.com:7051
peer0.org2.example.com | 2025-06-22 12:37:15.126 UTC 0011 INFO [ledgermgr] NewLedgerMgr -> Initialized LedgerMgr
peer0.org1.example.com | 2025-06-22 12:37:15.126 UTC 0011 INFO [gossip.gossip] New -> Creating gossip service with self membership of Endpoint: peer0.org1.example.com:7051, Internal Endpoint: peer0.org1.example.com:7051, PKI-ID: e667fb4fd8db6c27f7dc3ab7ce1774caf549bb1b380fc5a4d18f65407d4ed2940, Metadata:
peer0.org1.example.com | 2025-06-22 12:37:15.127 UTC 0013 INFO [lifecycle] InitializeLocalChaincodes -> Initialized lifecycle cache with 0 already installed chaincodes
peer0.org1.example.com | 2025-06-22 12:37:15.127 UTC 0014 INFO [gossip.gossip] start -> Gossip instance peer0.org1.example.com:7051 started
peer0.org2.example.com | 2025-06-22 12:37:15.127 UTC 0011 INFO [gossip.service] New -> Initialize gossip with endpoint peer0.org2.example.com:9051
peer0.org1.example.com | 2025-06-22 12:37:15.127 UTC 0015 INFO [nodeCmd] computeChaincodeEndpoint -> Entering computeChaincodeEndpoint with peerHostname: peer0.org1.example.com
peer0.org1.example.com | 2025-06-22 12:37:15.127 UTC 0016 INFO [nodeCmd] computeChaincodeEndpoint -> Exit with ccEndpoint: peer0.org1.example.com:7052
peer0.org1.example.com | 2025-06-22 12:37:15.129 UTC 0017 INFO [scapp] DeploySysCC -> deploying system chaincode 'lsc'
peer0.org2.example.com | 2025-06-22 12:37:15.129 UTC 0012 INFO [gossip.gossip] New -> Creating gossip service with self membership of Endpoint: peer0.org2.example.com:9051, Internal Endpoint: peer0.org2.example.com:9051, PKI-ID: 685d1e94a8c8c06fa8412925cc4f38ee71841588bc3e913c14ed7c693ad3df933, Metadata:
peer0.org1.example.com | 2025-06-22 12:37:15.129 UTC 0014 INFO [scapp] DeploySysCC -> deploying system chaincode 'csc'
peer0.org1.example.com | 2025-06-22 12:37:15.129 UTC 0015 INFO [scapp] DeploySysCC -> deploying system chaincode 'qsc'
peer0.org1.example.com | 2025-06-22 12:37:15.129 UTC 0016 INFO [scapp] DeploySysCC -> deploying system chaincode 'lifecycle'
peer0.org1.example.com | 2025-06-22 12:37:15.129 UTC 0018 INFO [nodeCmd] serve -> Deployed system chaincodes
peer0.org1.example.com | 2025-06-22 12:37:15.129 UTC 001c INFO [discovery] NewService -> Created with config TLS: true, authCacheMaxSize: 1000, authCachePurgeRatio: 0.750000
peer0.org2.example.com | 2025-06-22 12:37:15.130 UTC 0013 INFO [lifecycle] InitializeLocalChaincodes -> Initialized lifecycle cache with 0 already installed chaincodes
peer0.org1.example.com | 2025-06-22 12:37:15.129 UTC 001d INFO [nodeCmd] serve -> Discovery service activated
peer0.org2.example.com | 2025-06-22 12:37:15.130 UTC 0014 INFO [gossip.gossip] start -> Gossip instance peer0.org2.example.com:9051 started
peer0.org1.example.com | 2025-06-22 12:37:15.129 UTC 0015 INFO [nodeCmd] serve -> Starting peer with Gateway enabled
peer0.org1.example.com | 2025-06-22 12:37:15.129 UTC 0016 INFO [nodeCmd] serve -> Starting peer with ID=[peer0.org1.example.com], network ID=[dev], address=[peer0.org1.example.com:7051]
peer0.org2.example.com | 2025-06-22 12:37:15.130 UTC 0015 INFO [nodeCmd] computeChaincodeEndpoint -> Entering computeChaincodeEndpoint with peerHostname: peer0.org2.example.com
peer0.org2.example.com | 2025-06-22 12:37:15.130 UTC 0016 INFO [nodeCmd] computeChaincodeEndpoint -> Exit with ccEndpoint: peer0.org2.example.com:9052
peer0.org1.example.com | 2025-06-22 12:37:15.130 UTC 0020 INFO [nodeCmd] serve -> Started peer with ID=[peer0.org1.example.com], network ID=[dev], address=[peer0.org1.example.com:7051]
peer0.org1.example.com | 2025-06-22 12:37:15.130 UTC 0021 INFO [kvledger] LoadPreResetHeight -> Loading prereset height from path [/var/hyperledger/production/ledgersData/chains]
peer0.org1.example.com | 2025-06-22 12:37:15.130 UTC 0022 INFO [blkstorage] preResetHeightFiles -> No active channels passed
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 0017 INFO [scapp] DeploySysCC -> deploying system chaincode 'lsc'
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 0018 INFO [scapp] DeploySysCC -> deploying system chaincode 'csc'
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 0019 INFO [scapp] DeploySysCC -> deploying system chaincode 'qsc'
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 001a INFO [scapp] DeploySysCC -> deploying system chaincode 'lifecycle'
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 001c INFO [discovery] NewService -> Created with config TLS: true, authCacheMaxSize: 1000, authCachePurgeRatio: 0.750000
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 001d INFO [nodeCmd] serve -> Discovery service activated
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 001e INFO [nodeCmd] serve -> Starting peer with Gateway enabled
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 001f INFO [nodeCmd] serve -> Starting peer with ID=[peer0.org2.example.com], network ID=[dev], address=[peer0.org2.example.com:9051]
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 0020 INFO [nodeCmd] serve -> Started peer with ID=[peer0.org2.example.com], network ID=[dev], address=[peer0.org2.example.com:9051]
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 0021 INFO [kvledger] LoadPreResetHeight -> Loading prereset height from path [/var/hyperledger/production/ledgersData/chains]
peer0.org2.example.com | 2025-06-22 12:37:15.132 UTC 0022 INFO [blkstorage] preResetHeightFiles -> No active channels passed
```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	NAMES	CREATED	STATUS	PORTS
7a9ed64814fd	hyperledger/fabric-peer:latest	"peer node start"	About a minute ago	Up About a minute	0.0.0.0:7051->7051/tcp, [::]:7051->7051/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp	
b74e1cd6653d	hyperledger/fabric-orderer:latest	"orderer"	About a minute ago	Up About a minute	0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7053->7053/tcp, [::]:7053->7053/tcp	
db5e658fb7	hyperledger/fabric-peer:latest	"peer node start"	About a minute ago	Up About a minute	0.0.0.0:9051->9051/tcp, [::]:9051->9051/tcp, 7051/tcp, 0.0.0.0:9445->9445/tcp	
trushang@trushang-HP-Laptop-15s-fr5xxx:						

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ export PATH=$PWD/../bin:$PWD:$PATH

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ export FABRIC_CFG_PATH=$PWD/configtx
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ export CHANNEL_NAME=mychannel
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ cp ./config/core.yaml ./configtx
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$
```

```
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ configtxgen -profile ChannelUsingRaft -outputBlock ./channel-artifacts/${CHANNEL_NAME}.block -channelID $CHANNEL_NAME

2025-06-22 21:08:12.342 IST 0001 INFO [common.tools.configtxgen] main -> Loading configuration
2025-06-22 21:08:12.349 IST 0002 INFO [common.tools.configtxgen.localconfig] completeInitialization -> orderer type: etcdrift
2025-06-22 21:08:12.349 IST 0003 INFO [common.tools.configtxgen.localconfig] completeInitialization -> Orderer.Etcdrift.Options unset, setting to tick_interval:"500ms" election_tick:10
2025-06-22 21:08:12.349 IST 0004 INFO [common.tools.configtxgen.localconfig] Load -> Loaded configuration: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/configtx/configtx.yaml
2025-06-22 21:08:12.351 IST 0005 INFO [common.tools.configtxgen] doOutputBlock -> Generating genesis block
2025-06-22 21:08:12.352 IST 0006 INFO [common.tools.configtxgen] doOutputBlock -> Creating application channel genesis block
2025-06-22 21:08:12.352 IST 0007 INFO [common.tools.configtxgen] doOutputBlock -> Writing genesis block
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$
```

```
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ export ORDERER_CA=${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem
export ORDERER_ADMIN_TLS_SIGN_CERT=${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/tls/server.crt
export ORDERER_ADMIN_TLS_PRIVATE_KEY=${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/tls/server.key
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$
```

```
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ osnadmin channel join --channelID $CHANNEL_NAME --config-block ./channel-artifacts/${CHANNEL_NAME}.block -o localhost:7053 --ca-file "$ORDERER_CA" --client-cert "$ORDERER_ADMIN_TLS_SIGN_CERT" --client-key "$ORDERER_ADMIN_TLS_PRIVATE_KEY"
Status: 201
{
  "name": "mychannel",
  "url": "/participation/v1/channels/mychannel",
  "consensusRelation": "consenter",
  "status": "active",
  "height": 1
}
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$
```

```
GNU nano 7.2
./scripts/setOrgPeerContext.sh
#!/bin/bash

# import utils
source scripts/envVar.sh

ORG=$1

setGlobals $ORG

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setOrgPeerContext.sh 1
peer channel join -b ./channel-artifacts/mychannel.block
Using organization 1
2025-06-22 21:26:54.709 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-22 21:26:54.756 IST 0002 INFO [channelCmd] executeJoin -> Successfully submitted proposal to join channel
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$
```

```
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setOrgPeerContext.sh 2
peer channel join -b ./channel-artifacts/mychannel.block
Using organization 2
2025-06-22 21:29:11.415 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-22 21:29:11.468 IST 0002 INFO [channelCmd] executeJoin -> Successfully submitted proposal to join channel
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$
```

```
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setOrgPeerContext.sh 1
source ./scripts/setAnchorPeer.sh 1 $CHANNEL_NAME

Using organization 1
Using organization 1
Fetching channel config for channel mychannel
Using organization 1
Fetching the most recent configuration block for the channel
++ peer channel fetch config /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com -c mychannel -tls -cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem
2025-06-22 21:31:14.451 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorse and orderer connections initialized
2025-06-22 21:31:14.455 IST 0002 INFO [cli.common] readBlock -> Received block: 0
2025-06-22 21:31:14.455 IST 0003 INFO [channelCmd] readBlock -> Retrieving last config block: 0
2025-06-22 21:31:14.456 IST 0004 INFO [cli.common] readBlock -> Received block: 0
Decoding config block from JSON and isolating config to /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPOConfig.json
++ configtxlator proto_decode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb --type common.Block --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ jq '.data.data[0].payload.data.config' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ res=$?
Generating anchor peer update transaction for Org1 on channel mychannel
++ jq ".channel_group.groups.Application.groups.Org1SP.value += {\"AnchorPeers\":{\"mod_policy\": \"Admins\", \"value\": {\"anchor_peers\": [{\"host\": \"peer0.org1.example.com\", \"port\": 7051}]}}, \"version\": \"0\"}" /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPOConfig.json
++ res=$?
++ configtxlator proto_encode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPOConfig.json --type common.Config --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/original_config.pb
++ configtxlator proto_encode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPOConfig.json --type common.Config --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/modifed_config.pb
++ configtxlator compute_update --channel_id mychannel --original /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/original_config.pb --updated /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/modifed_config.pb --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.pb
++ configtxlator proto_decode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.pb --type common.ConfigUpdate --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.json
++ jq
++ cat /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.json
++ echo "[{"payload": {"header": {"channel_header": {"channel_id": "mychannel", "type": "2"}}, "data": {"config_update": {"channel_id": "mychannel", "isolated_data": {}, "read_set": {}, "groups": [{"Application": [{"groups": [{"Org1SP": {"mod_policy": "", "policy": ""}], "policies": [{"Admins": {"mod_policy": "", "policy": ""}}], "version": "0"}, {"Endorsement": [{"mod_policy": "", "policy": null, "version": "0"}], "Readers": [{"mod_policy": "", "policy": null, "version": "0"}], "Writers": [{"mod_policy": "", "policy": null, "version": "0"}], "values": [{"MSP": {"mod_policy": "", "value": null, "version": "0"}}, {"mod_policy": "", "policy": null, "version": "0"}]}, {"mod_policy": "", "policy": null, "version": "0"}], "mod_policy": "", "policies": {}, "values": {}}, {"version": "0"}, {"write_set": {"groups": [{"Application": [{"groups": [{"Org1SP": {"mod_policy": "", "policy": ""}}, {"policies": [{"Admins": {"mod_policy": "", "policy": ""}}], "version": "0"}], "version": "0"}], "mod_policy": "", "policy": null, "version": "0"}}, {"Writers": [{"mod_policy": "", "policy": null, "version": "0"}], "values": [{"AnchorPeers": {"mod_policy": "", "value": "peer0.org1.example.com,7051"}, "MSP": {"mod_policy": "", "value": "peer0.org1.example.com,7051"}, "version": "0"}]}, {"mod_policy": "", "policy": null, "version": "0"}], "mod_policy": "", "policies": {}, "values": {}}, {"version": "0"}]}]}]
```



```
++ peer channel fetch config /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com -c mychannel -tls -cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem
2025-06-22 21:48:06.932 IST 0001 INFO [channelCmd] InttccFactory-> Endorser and orderer connections initialized
2025-06-22 21:48:06.935 IST 0002 INFO [cli.common] readBlock -> Received block: 1
2025-06-22 21:48:06.935 IST 0003 INFO [channelCmd] fetch -> Retrieving last config block: 1
2025-06-22 21:48:06.938 IST 0004 INFO [cli.common] readBlock -> Received block: 1
Decoding config block to JSON and isolating config to /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org2MSPconfig.json
++ configtxlator proto_decode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb --type common.Block --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ jq '.data.data[0].payload.data.config' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ res=0
Generating anchor peer update transaction for Org2 on channel mychannel
++ jq '.channel_group.groups.Application.groups.Org2MSP.values += [{"AnchorPeers": ["mod_policy": "Admins", "value": {"host": "peer0.org2.example.com", "port": 9051}], "version": "0"}]' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org2MSPconfig.json
++ res+=1
++ configtxlator proto_encode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org2MSPconfig.json --type common.Config --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/original_config.pb
++ configtxlator proto_encode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org2MSPmodified_config.json --type common.Config --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/modified_config.pb
++ configtxlator compute_update --channel_id mychannel --original /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/original_config.pb --updated /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/modified_config.pb --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.pb
++ configtxlator proto_decode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.pb --type common.ConfigUpdate --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.json
++ jq .
.... cat /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.json
++ echo "[payload]:{header:{'channel_header':{'channel_id': 'mychannel', 'type': 2}},data:{'config_update':{}}}" | jq -r ".payload |= {header: {channel_header: {channel_id: \"mychannel\", \"type\": \"2\"}}, data: {config_update: {}}}, .payload.header |= {channel_header: {channel_id: \"mychannel\", \"type\": \"2\"}}, .payload.data |= {config_update: {}}"
++ jq -r ".payload |= {header: {channel_header: {channel_id: \"mychannel\", \"type\": \"2\"}}, data: {config_update: {}}}, .payload.header |= {channel_header: {channel_id: \"mychannel\", \"type\": \"2\"}}, .payload.data |= {config_update: {}}" > /tmp/config_update.json
++ peer channel update -f /tmp/config_update.json -c mychannel
2025-06-22 21:48:07.169 IST 0001 INFO [channelCmd] InttccFactory -> Endorser and orderer connections initialized
2025-06-22 21:48:07.183 IST 0002 INFO [channelCmd] update -> Successfully submitted channel update
Anchor peer set for org Org2MSP on channel mychannel
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$
```

```
GNU nano 7.2          ./scripts/setAssetContext.sh *
export CC_RUNTIME_LANGUAGE=node
export CC_SRC_PATH=../asset-transfer-basic/chaincode-javascript/
export VERSION=1

[G] Help      [W] Write Out   [F] Where Is     [C] Cut       [E] Execute    [L] Location    [U] Undo      [M-A] Set Mark  [J] To Bracket [Q] Previous   [B] Back
[X] Exit      [R] Read File   [P] Replace      [V] Paste     [D] Justify    [G] Go To Line  [R] Redo      [M-D] Copy      [N] Where Was  [H] Next      [F] Forward

trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ nano ./scripts/setAssetContext.sh
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setAssetContext.sh
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$

trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ export FABRIC_CFG_PATH=$(PWD)/configtx
export CHANNEL_NAME=mychannel
export PATH=$PATH:$PWD/bin:$PWD:$PATH

trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ 
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setOrgPeerContext.sh 1
Using organization 1
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ peer lifecycle chaincode package asset.tar.gz --path ${CC_SRC_PATH} --lang ${CC_RUNTIME_LANGUAGE}
GE) - -label asset_${VERSION}
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ peer lifecycle chaincode install asset.tar.gz
2025-06-22 21:57:00.346 IST 0001 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Installed remotely: response:<status:200 payload:"\nasset_1:7535ac7406e46b072dd7f55ad985cf4134ba48e9cab64ac0c1ec2b699100ee8\b02\b007asset_1" >
2025-06-22 21:57:00.346 IST 0002 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Chaincode code package identifier: asset_1:7535ac7406e46b072dd7f55ad985cf4134ba48e9cab64ac0c1ec2b699100ee8\b02\b007asset_1
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-network$ 
```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setOrgPeerContext.sh 2
peer lifecycle chaincode install asset.tar.gz

Using organization 2
2025-06-22 21:57:48.533 IST 0001 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Installed remotely: response:<status:200 payload:"\nHasset_1:7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac0c1ec2b699100ee8\b2\b07asset_1" >
2025-06-22 21:57:48.533 IST 0002 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Chaincode code package identifier: asset_1:7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac0c1ec2b699100ee8
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer lifecycle chaincode queryinstalled 2>&1 | tee outfile
Installed chaincodes on peer:
Package ID: asset_1:7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac0c1ec2b699100ee8, Label: asset_1
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./scripts/setPackageID.sh *
GNU nano 7.2
#!/bin/bash

PACKAGE_ID=$(sed -n "/asset_${VERSION}/{s/^Package ID: //; s/, Label:.*$/; p;}" $1)
export PACKAGE_ID=$PACKAGE_ID
echo $PACKAGE_ID

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ nano ./scripts/setPackageID.sh
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setPackageID.sh outfile
asset_1:7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac0c1ec2b699100ee8
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setOrgPeerContext.sh 1

Using organization 1
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer lifecycle chaincode approveformyorg -o localhost:7050 --ordererTLSHostnameOverride ordere.r.example.com --tls SCORE_PEER_TLS_ENABLED --cafile SORDERER_CA --channelID SCHANNEL_NAME --name asset --version ${VERSION} --init-required --package-id ${PACKAGE_ID} --sequence ${VERSION}
2025-06-22 22:02:41.434 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [8e5b03e90f480cb15d0cf6d8fd658ae0b3aa4933bf5b64743166cc6ed36db] committed with status (VALID) at localhost:7051
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer lifecycle chaincode checkcommitreadiness --channelID SCHANNEL_NAME --name asset --version ${VERSION} --sequence ${VERSION} --output json --init-required
{
    "approvals": [
        "Org1MSP": true,
        "Org2MSP": false
    ]
}
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setOrgPeerContext.sh 2
peer lifecycle chaincode checkcommitreadiness --channelID SCHANNEL_NAME --name asset --version ${VERSION} --sequence ${VERSION} --output json --init-required

Using organization 2
{
    "approvals": [
        "Org1MSP": true,
        "Org2MSP": false
    ]
}
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer lifecycle chaincode approveformyorg -o localhost:7050 --ordererTLSHostnameOverride ordere.r.example.com --tls SCORE_PEER_TLS_ENABLED --cafile SORDERER_CA --channelID SCHANNEL_NAME --name asset --version ${VERSION} --init-required --package-id ${PACKAGE_ID} --sequence ${VERSION}
2025-06-22 22:27:22.428 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [0a8e3fb40608481e2663cec2f77b14c158307d4cdbd348411d9c4affda5c273f] committed with status (VALID) at localhost:9051
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

```

```

GNU nano 7.2
#!/bin/bash
source scripts/envVar.sh
parsePeerConnectionParameters $@
echo ${PEER_CONN_PARMS[@]}
export PEER_CONN_PARAMS=${PEER_CONN_PARMS[@]}

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setPeerConnectionParam.sh 1 2
Using organization 1
Using organization 2
--peerAddresses localhost:7051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/tlsca/tlscac.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/tlsca/tlscac.org2.example.com-cert.pem
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls SCORE_PEER_TLS_ENABLED --cafile SORDERER_CA --channelID SCHANNEL_NAME --name asset SPEER_CONN_PARAMS --version ${VERSION} --sequence ${VERSION} --init-required
2025-06-22 22:36:18.692 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [7aca8b07e87beac03c8943028eb5cad46cb4d3795924c89551b68009b38cbe] committed with status (VALID) at localhost:7051
2025-06-22 22:36:18.694 IST 0002 INFO [chaincodeCmd] ClientWait -> txid [7aca8b07e87beac03c8943028eb5cad46cb4d3795924c89551b68009b38cbe] committed with status (VALID) at localhost:9051
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ docker ps
CONTAINER ID IMAGE CREATED STATUS PORTS CO
$NAME
cc0c2f509630 dev-peer.org1.example.com.asset_1:7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac0c1ec2b699100ee8-c9d4a40cabd05d5bcfafcc389531d65ea437e44c489ce4922e785a4c9f4d042 "d
ocker-entrypoints._" 39 seconds ago Up 38 seconds
dev-peer.org1.example.com.asset_1:7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac0c1ec2b699100ee8
5408e26c33f7 dev-peer.org2.example.com.asset_1:7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac0c1ec2b699100ee8-abdbf76400ac24cae2142a82c946be726a3ba7fc7cd13a4cbe384df15fd381e "d
ocker-entrypoints._" 39 seconds ago Up 38 seconds
dev-peer.org2.example.com.asset_1:7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac0c1ec2b699100ee8
7a9ed64814fd hyperledger/fabric-peer:latest "p
peer0.org1.example.com
b74e1c6653d hyperledger/fabric-orderer:latest
rderer" 2 hours ago Up 2 hours 0.0.0.0:7051->7051/tcp, [::]:7051->7051/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp
peer0.org1.example.com
3/5e658bfbc7 hyperledger/fabric-peer:latest "p
peer node start" 2 hours ago Up 2 hours 0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7053->7053/tcp, [::]:7053->7053/tcp, 0.0.0.0:9443->9443/tcp, [::]:9443->944
peer0.org2.example.com
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer lifecycle chaincode querycommitted --channelID $CHANNEL_NAME --name asset
Committed chaincode definition for chaincode 'asset' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setOrgPeerContext.sh 1
peer lifecycle chaincode querycommitted --channelID $CHANNEL_NAME --name asset

Using organization 1
Committed chaincode definition for chaincode 'asset' on channel 'mychannel':
Version: 1, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ docker ps
CONTAINER ID IMAGE CO
MMAND CREATED STATUS PORTS NAMES
cc0c2f509630 dev-peer0.org1.example.com-asset_1-7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac01ec2b699100ee8-c9d4a40cabd05d5bcfafcc389531d65ea437e44c489ce4922e785a4c9f4d042 "dev-peer0.org1.example.com-asset_1-7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac01ec2b699100ee8"
5408e26c33f7 dev-peer0.org2.example.com-asset_1-7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac01ec2b699100ee8-abdbf76400ac24cae2142a82c946ebe726a3ba7fc7cd13a4cbe384df15fd381e "dev-peer0.org2.example.com-asset_1-7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac01ec2b699100ee8"
7a9ed64814fd hyperledger/fabric-peer:latest "p
peer0.org1.example.com
peer0.org2.example.com
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ export PATH=$PWD/.:/bin:$PWD:$PATH
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ export CHANNEL_NAME=mychannel
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setOrgPeerContext.sh 1

Using organization 1
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls SCORE_PEER_TLS_ENABLED --cafile ORDERER_CA -c $CHANNEL_NAME -n asset SPEER_CONN_PARAMS --isInit -c '{"function": "Intledge", "Args":[]}'
2025-06-22 22:41:43.072 IST 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery --> Chaincode invoke successful. result: status:200
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode query -C $CHANNEL_NAME -n asset -c '{"Args":["GetAllAssets"]}' [{"AppraisedValue":500,"Color": "blue","ID": "asset1","Owner": "Tomoko","docType": "asset"}, {"AppraisedValue":400,"Color": "red","ID": "asset2","Owner": "Brad","Size":5,"docType": "asset"}, {"AppraisedValue":500,"Color": "green","ID": "asset3","Owner": "Jin Soo","Size":10,"docType": "asset"}, {"AppraisedValue":600,"Color": "yellow","ID": "asset4","Owner": "Max","Size":10,"docType": "asset"}, {"AppraisedValue":700,"Color": "black","ID": "asset5","Owner": "Adriana","Size":15,"docType": "asset"}, {"AppraisedValue":800,"Color": "white","ID": "asset6","Owner": "Michel","Size":15,"docType": "asset"}]
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile ORDERER_CA -C $CHANNEL_NAME -n asset SPEER_CONN_PARAMS -c '{"function": "CreateAsset","Args": ["asset11","red","Ron","500"]}'
2025-06-22 22:43:13.839 IST 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery --> Chaincode invoke successful. result: status:200 payload:>{"ID": "asset11", "Color": "red", "Size": 8, "Owner": "Ron", "AppraisedValue": 500}
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode query -C $CHANNEL_NAME -n asset -c '{"Args":["ReadAsset", "asset11"]}' [{"AppraisedValue":500,"Color": "red","ID": "asset11","Owner": "Ron","Size":8}]
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile ORDERER_CA -C $CHANNEL_NAME -n asset SPEER_CONN_PARAMS -c '{"function": "UpdateAsset","Args": ["asset11","red","Ron","500"]}'
2025-06-22 22:58:41.631 IST 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery --> Chaincode invoke successful. result: status:200 payload:>{"type": "Buffer", "data": []}
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode query -C $CHANNEL_NAME -n asset -c '{"Args":["ReadAsset", "asset11"]}' [{"AppraisedValue":500,"Color": "red","ID": "asset11","Owner": "John","Size":8}]
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile ORDERER_CA -C $CHANNEL_NAME -n asset SPEER_CONN_PARAMS -c '{"function": "DeleteAsset","Args": ["asset11"]}'
2025-06-22 23:00:33.866 IST 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery --> Chaincode invoke successful. result: status:200 payload:>{"type": "Buffer", "data": []}
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh down
Using docker and docker-compose
Stopping network
Stopping peer0.org1.example.com ... done
Stopping orderer.example.com ... done
Stopping peer0.org2.example.com ... done
Removing peer0.org1.example.com ... done
Removing orderer.example.com ... done
Removing peer0.org2.example.com ... done
Removing network compose_default
WARNING: Network compose_default not found.
Removing network fabric_test
Removing volume compose_orderer.example.com
Removing volume compose_orderer2.example.com
WARNING: Volume compose_orderer2.example.com not found.
Removing volume compose_orderer3.example.com
WARNING: Volume compose_orderer3.example.com not found.
Removing volume compose_orderer4.example.com
WARNING: Volume compose_orderer4.example.com not found.
Removing volume compose_peer0.org1.example.com
Removing volume compose_peer0.org2.example.com
Removing volume compose_peer0.org3.example.com
WARNING: Volume compose_peer0.org3.example.com not found.
Error response from daemon: get docker_orderer.example.com: no such volume
Error response from daemon: get docker_peer0.org1.example.com: no such volume
Error response from daemon: get docker_peer0.org2.example.com: no such volume
Removing remaining containers
Removing generated chaincode docker images
Untagged: dev-peer0.org2.example.com-asset_1-7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac01ec2b699100ee8-abdbf76400ac24cae2142a82c946ebe726a3ba7fc7cd13a4cbe384df15fd381e:latest
Deleted: sha256:39044312c116c1a1d2587792ed66772d0414994c89cff3d8e9c9f6d72f6a
Deleted: sha256:2cf37e99e529c1946e5282fd80a5dd26f89d9769c8f0fd43cf201e01446cfa17
Deleted: sha256:0041443a0ee1a0de4f20349532032752c20851e6d498c2fb6c26af1f5212ac
Deleted: sha256:4a10853b7cd6a4f45d5f828b205af4d6693d4b00879bc8a2ef0f91335a7e88
Untagged: dev-peer0.org1.example.com-asset_1-7535ac7406e46b072dd7f55ad985cf4134ba48e9ecab64ac01ec2b699100ee8-c9d4a40cabd05d5bcfafcc389531d65ea437e44c489ce4922e785a4c9f4d042:latest
Deleted: sha256:80c2b25519624989528e0bba8244bb1f80a07f98c6608e422a695bc41
Deleted: sha256:c5cde86df036774fe6a0087bf98cfc61cd559fda84f01e9azed73f3e3c40f
Deleted: sha256:a2176a45174c809396fc5d82b7110e4a4266695ca7b572b38299580192fc7cff
Deleted: sha256:a6060e1aa9c167a13e95121bf82b77582358c5e91a75994fc094f494bab48
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

```

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trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh up createChannel -s couchdb

Using docker and docker-compose
Creating channel 'mychannel'.
If network is not up, starting nodes with CLI timeout of '5' tries and CLI delay of '3' seconds and using database 'couchdb with crypto from 'cryptogen'
Bringing up network
LOCAL_VERSION=v2.5.12
MOCKER_IMAGE_VERSION=v2.5.12
/home/trushang/Desktop/hyperledger/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
+ 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
Pulling couchdb1 (couchdb:3.4.2)...
3.4.2: Pulling from library/couchdb
6e909acdb790: Pull complete
3119e86acddc: Pull complete
26667909256f: Pull complete
57b2532a58bd: Pull complete
3ee6ccfcfb0: Pull complete
397a9148e7b3: Pull complete
63676e159426: Pull complete
fd5531d997129: Pull complete
2df4d3f8786c: Pull complete
7f0d94bfafab: Pull complete
66edba0cea9b: Pull complete
Digest: sha256:2817ad50b5c5cf7461f5963670466197426605a790a19a6208068c509a2d8a59
Status: Downloaded newer image for couchdb:3.4.2
Creating orderer.example.com ... done
Creating couchdb0 ... done
Creating couchdb1 ... done
Creating peer0.org2.example.com ... done
Creating peer0.org1.example.com ... done
CONTAINER ID IMAGE COMMAND CREATED NAMES STATUS PORTS
dda045bf221 hyperledger/fabric-peer:latest "peer node start" Less than a second ago Up Less than a second 0.0.0.0:7051->7051/tcp, [::]:7051->7051/tcp, 0.0.0.0:9444->
9444/tcp, [::]:9444->9444/tcp
7407d1284133 hyperledger/fabric-peer:latest "peer node start" Less than a second ago Up Less than a second 0.0.0.0:9051->9051/tcp, [::]:9051->9051/tcp, 7051/tcp, 0.0.
0:9445->9445/tcp, [::]:9445->9445/tcp
10694dd0626b9 couchdb:3.4.2 "tini -- /docker-entrypoint.s Less than a second ago Up Less than a second 4369/tcp, 9100/tcp, 0.0.0.0:7984->5984/tcp, [::]:7984->5984
/tcp
685b829a1d3c couchdb:3.4.2 "tini -- /docker-entrypoint.s Less than a second ago Up Less than a second 4369/tcp, 9100/tcp, 0.0.0.0:5984->5984/tcp, [::]:5984->5984
/tcp
2906d03f509e hyperledger/fabric-orderer:latest "orderer" Less than a second ago Up Less than a second 0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7053->
7053/tcp, [::]:7053->7053/tcp, 0.0.0.0:9443->9443/tcp, [::]:9443->9443/tcp
orderer.example.com
Using docker and docker-compose
Generating channel genesis block 'mychannel.block'
Using organization 1
/home/trushang/Desktop/hyperledger/fabric-samples/test-network/../bin/configtxgen
+[ '$0' -eq 1 ]
+ configtxgen -profile ChannelUsingRaft -outputBlock ./channel-artifacts/mychannel.block -channelID mychannel
2025-06-22 23:02:57.787 IST 0001 INFO [common.tools.configtxgen] main -- Loading configuration
2025-06-22 23:02:57.791 IST 0002 INFO [common.tools.configtxgen.localconfig] completeInitialization --> orderer type: etcdraft
2025-06-22 23:02:57.791 IST 0003 INFO [common.tools.configtxgen.localconfig] completeInitialization --> Orderer.EtcdRaft.Options unset, setting to tick_interval:"500ms" election_tick:10
heartbeat_tick:1 max_inflight_blocks:5 snapshot_interval_size:16777216
2025-06-22 23:02:57.791 IST 0004 INFO [common.tools.configtxgen.localconfig] Load --> Loaded configuration: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/configtx/configtx.yaml
2025-06-22 23:02:57.794 IST 0005 INFO [common.tools.configtxgen] doOutputBlock --> Generating genesis block
2025-06-22 23:02:57.794 IST 0006 INFO [common.tools.configtxgen] doOutputBlock --> Creating application channel genesis block
2025-06-22 23:02:57.794 IST 0007 INFO [common.tools.configtxgen] doOutputBlock --> Writing genesis block
+ res=0
Creating channel mychannel
Adding orderers
+ . scripts/orderer.sh mychannel
+[ '$0' -eq 1 ]
+ res=0
Status: 201
{
  "name": "mychannel",
  "url": "/participation/v1/channels/mychannel",
  "consensusRelation": "consenter",
  "status": "active",
  "height": 1
}

```



```

Chaincode is installed on peer0.org1
Install chaincode on peer0.org2...
Using organization 2
+ peer lifecycle chaincode queryinstalled --output json
+ jq -r 'try (.installed_chaincodes[], package_id)'
+ grep 'ledger_1.0:1d1ddeee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7e1fd9f9cd2adf37cc$'
+ test 1 -ne 0
+ peer lifecycle chaincode install ledger.tar.gz
+ res=0
2025-06-22 23:05:22.624 IST 0001 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Installed remotely: response:<status:200 payload:"\nKledger_1.0:1d1ddeee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7e1fd9f9cd2adf37cc$"
2e1bc4c769460ee7e1fd9f9cd2adf37cc\022\ncledger_1.0" >
2025-06-22 23:05:22.625 IST 0002 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Chaincode code package identifier: ledger_1.0:1d1ddeee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7e1fd9f9cd2adf37cc
Chaincode is installed on peer0.org2
++ peer lifecycle chaincode querycommitted --channelID mychannel --name ledger
++ sed -n '/Version:/{s/.*/Sequence: //; s/ /Endorsement Plugin:/; p;}'
Error: query failed with status: 404 - namespace ledger is not defined
+ COMMITTED_CC_SEQUENCE=
+ res=0
Using organization 1
+ peer lifecycle chaincode queryinstalled --output json
+ jq -r 'try (.installed_chaincodes[], package_id)'
+ grep 'ledger_1.0:1d1ddeee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7e1fd9f9cd2adf37cc$'
+ res=0
ledger_1.0:1d1ddeee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7e1fd9f9cd2adf37cc
Query Installed successful on peer0.org1 on channel
Using organization 1
+ peer lifecycle chaincode approveformyorg -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name ledger --version 1.0 --package-id ledger_1.0:1d1ddeee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7e1fd9f9cd2adf37cc --sequence 1 --signature-policy 'OR(''\Org1MSP.peer'',''\Org2MSP.peer'')'
+ res=0
2025-06-22 23:05:24.948 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [27586f4ab0a980220f72fd92e5ac9409dc43f590faa9ec39d36b4cc5968e11] committed with status (VALID) at localhost:7051
Chaincode definition approved on peer0.org1 on channel 'mychannel'
Using organization 1
Checking the commit readiness of the chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org1, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name ledger --version 1.0 --sequence 1 --signature-policy 'OR(''\Org1MSP.peer'',''\Org2MSP.peer'')' --output json
+ res=0
{
    "approvals": {
        "Org1MSP": true,
        "Org2MSP": false
    }
}
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name ledger --version 1.0 --sequence 1 --signature-policy 'OR(''\Org1MSP.peer'',''\Org2MSP.peer'')' --output json
+ res=0
{
    "approvals": {
        "Org1MSP": true,
        "Org2MSP": false
    }
}
Checking the commit readiness of the chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Checking the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name ledger --version 1.0 --sequence 1 --signature-policy 'OR(''\Org1MSP.peer'',''\Org2MSP.peer'')' --output json
+ res=0
{
    "approvals": {
        "Org1MSP": true,
        "Org2MSP": false
    }
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 2
+ peer lifecycle chaincode approveformyorg -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name ledger --version 1.0 --package-id ledger_1.0:1d1ddeee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7e1fd9f9cd2adf37cc --sequence 1 --signature-policy 'OR(''\Org1MSP.peer'',''\Org2MSP.peer'')'
+ res=0
2025-06-22 23:05:33.397 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [3211d6527863bce0960db176036adeb41b49f51171b25fc37768c719a33e0ded] committed with status (VALID) at localhost:9051
Chaincode definition approved on peer0.org2 on channel 'mychannel'
Using organization 1
Checking the commit readiness of the chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org1, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name ledger --version 1.0 --sequence 1 --signature-policy 'OR(''\Org1MSP.peer'',''\Org2MSP.peer'')' --output json
+ res=0
{
    "approvals": {
        "Org1MSP": true,
        "Org2MSP": true
    }
}

```

```

Checking the commit readiness of the chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Attempting to check the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name ledger --version 1.0 --sequence 1 --signature-policy 'OR(\'Org1MSP.peer\',\'Org2MSP.peer\')' --output json
+ res=0
{
    "approvals": [
        "Org1MSP": true,
        "Org2MSP": true
    ]
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name ledger --peerAddresses localhost:7051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1.0 --sequence 1 --signature-policy 'OR(\'Org1MSP.peer\',\'Org2MSP.peer\')'
+ res=0
2025-06-22 23:05:41.820 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [3238fe80d856cf3dedf15bcd8b364a9776fe75b48ecc42e44b8d8e13d07dfe56] committed with status (VALID) at localhost:7051
2025-06-22 23:05:41.821 IST 0002 INFO [chaincodeCmd] ClientWait -> txid [3238fe80d856cf3dedf15bcd8b364a9776fe75b48ecc42e44b8d8e13d07dfe56] committed with status (VALID) at localhost:9051
51
Chaincode definition committed on channel 'mychannel'
Using organization 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 ledger
+ res=0
Committed chaincode definition for chaincode 'ledger' on channel 'mychannel':
Version: 1.0, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 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 ledger
+ res=0
Committed chaincode definition for chaincode 'ledger' on channel 'mychannel':
Version: 1.0, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Chaincode initialization is not required

Checking the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name ledger --version 1.0 --sequence 1 --signature-policy 'OR(\'Org1MSP.peer\',\'Org2MSP.peer\')' --output json
+ res=0
{
    "approvals": [
        "Org1MSP": true,
        "Org2MSP": true
    ]
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name ledger --peerAddresses localhost:7051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1.0 --sequence 1 --signature-policy 'OR(\'Org1MSP.peer\',\'Org2MSP.peer\')'
+ res=0
2025-06-22 23:05:41.820 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [3238fe80d856cf3dedf15bcd8b364a9776fe75b48ecc42e44b8d8e13d07dfe56] committed with status (VALID) at localhost:7051
51
2025-06-22 23:05:41.821 IST 0002 INFO [chaincodeCmd] ClientWait -> txid [3238fe80d856cf3dedf15bcd8b364a9776fe75b48ecc42e44b8d8e13d07dfe56] committed with status (VALID) at localhost:9051
51
Chaincode definition committed on channel 'mychannel'
Using organization 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 ledger
+ res=0
Committed chaincode definition for chaincode 'ledger' on channel 'mychannel':
Version: 1.0, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 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 ledger
+ res=0
Committed chaincode definition for chaincode 'ledger' on channel 'mychannel':
Version: 1.0, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Chaincode initialization is not required
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-networks$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-networks$ docker logs peer0.org1.example.com 2>&1 | grep "CouchDB index"
2025-06-22 17:35:41.781 UTC 907b INFO [couchdb] createIndex -> Created CouchDB index [indexOwner] in state database [mychannel_ledger] using design document [_design/indexOwnerDoc]
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-networks$ 

```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh down
Using docker and docker-compose
Stopping network
Stopping peer0.org1.example.com ... done
Stopping peer0.org2.example.com ... done
Stopping couchdb1 ... done
Stopping couchdb0 ... done
Stopping orderer.example.com ... done
Removing peer0.org1.example.com ... done
Removing peer0.org2.example.com ... done
Removing couchdb1 ... done
Removing couchdb0 ... done
Removing orderer.example.com ... done
Removing network fabric_test
Removing network compose_default
WARNING: Network compose_default not found.
Removing volume compose_orderer.example.com
Removing volume compose_orderer2.example.com
WARNING: Volume compose_orderer2.example.com not found.
Removing volume compose_orderer3.example.com
WARNING: Volume compose_orderer3.example.com not found.
Removing volume compose_orderer4.example.com
WARNING: Volume compose_orderer4.example.com not found.
Removing volume compose_peer0.org1.example.com
Removing volume compose_peer0.org2.example.com
Removing volume compose_peer0.org3.example.com
WARNING: Volume compose_peer0.org3.example.com not found.
Error response from daemon: get docker_orderer.example.com: no such volume
Error response from daemon: get docker_peer0.org1.example.com: no such volume
Error response from daemon: get docker_peer0.org2.example.com: no such volume
Removing remaining containers
Removing generated chaincode docker images
Untagged: dev-peer0.org1.example.com-ledger-1.0-1d1dee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7e1fd9f9cd2adf37cc-25f55695ba14bcbf542db340a71cc2dde4caf5ba5da441ef04622a4f2e041:latest
Deleted: sha256:d1f59377ce7d44021428abbfb7e0f92bf92f2556d8a51b328ec272f157eifa22
Deleted: sha256:6a20c88ff7932d8756f3bd2729c18f3a76b7865d5b2c1c551732c02392c2ca82a
Deleted: sha256:65a48c4f3ec9ce269de7483fc6f8053abf0c4407e60592dff49576c75106761d
Deleted: sha256:38a21fc53e19f951da9a628de78b4f3fd939b5ff812566081986125134b5bb8
Untagged: dev-peer0.org1.example.com-ledger-1.0-1d1dee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7e1fd9f9cd2adf37cc-05bc2c99260be2737e314bf9343cc4b9c7c94af5b8ffe905bbc1fc370ff460d8:latest
Deleted: sha256:6273efc9137c651963859a04b7d4615e5758f008611f1db96df60cfd835fa05
Deleted: sha256:48a8d70a1af20dd45bc6d509f645b390a037e7081af662208963ca782ad094c
Deleted: sha256:b2b0e90327f2ee23fd507fcfb7a744b21fa5a0b5433070fabf9b84a42a0dd
Deleted: sha256:6273efc9137c651963859a04b7d4615e5758f008611f1db96df60cfd835fa05
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh up createChannel -s couchdb
Using docker and docker-compose
Creating channel 'mychannel'.
If network is not up, starting nodes with CLI timeout of '5' tries and CLI delay of '3' seconds and using database 'couchdb with crypto from 'cryptogen'
Bringing up network
LOCAL_VERSION=v2.5.12
DOCKER_IMAGE_VERSION=v2.5.12
/home/trushang/Desktop/hyperledger/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
+ 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 orderer.example.com ... done
Creating couchdb1 ... done
Creating couchdb0 ... done
Creating peer0.org1.example.com ... done
Creating peer0.org2.example.com ... done
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS
95598308e361      hyperledger/fabric-peer:latest   "peer node start"    1 second ago       Up Less than a second   0.0.0.0:9051->9051/tcp, [::]:9051->9051/tcp, 7051/tcp, 0.0.0.0:9445->9445/tcp, [::]:9445->9445/tcp
0b7d40799146      hyperledger/fabric-peer:latest   "peer node start"    1 second ago       Up Less than a second   0.0.0.0:7051->7051/tcp, [::]:7051->7051/tcp, 0.0.0.0:9444->9444/tcp, [::]:9444->9444/tcp
fc4a8c05343a      hyperledger/fabric-orderer:latest "orderer"          1 second ago       Up Less than a second   0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7053->7053/tcp, [::]:7053->7053/tcp
46db0fa4e88       couchdb:3.4.2                  "tini -- /docker-ent" 1 second ago       Up Less than a second   4369/tcp, 9100/tcp, 0.0.0.0:5984->5984/tcp, [::]:5984->5984/tcp
ebe316b5e54       couchdb:3.4.2                  "tini -- /docker-ent" 1 second ago       Up Less than a second   4369/tcp, 9100/tcp, 0.0.0.0:5984->5984/tcp, [::]:5984->5984/tcp
Using docker and docker-compose
Generating channel genesis block 'mychannel.block'
Using organization 1

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Fetching the most recent configuration block for the channel
++ peer channel fetch config '/home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com -c mychannel --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem'
2025-06-22 23:13:11.792 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-22 23:13:11.796 IST 0002 INFO [cli.common] readBlock -> Received block: 1
2025-06-22 23:13:11.796 IST 0003 INFO [channelCmd] fetch -> Retrieving last config block: 1
2025-06-22 23:13:11.798 IST 0004 INFO [cli.common] readBlock -> Received block: 1
Decoding config block to JSON and isolating config to /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org2MSPconfig.json
++ configtxlator proto_decode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb --type common.Block --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ jq .data.data[0].payload.data.config' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ res=$?
Generating anchor peer update transaction for Org2 on channel mychannel
++ jq ".channel_group.groups.Application.groups.Org2MSP.values += [{"AnchorPeers":{"mod_policy": "Admins", "value": {"host": "peer0.org2.example.com", "port": 9051}}}], [{"mod_policy": "Admins", "value": {"host": "peer0.org2.example.com", "port": 9051}}]" /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org2MSPconfig.json
++ res=$?
++ configtxlator proto_encode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org2MSPconfig.json --type common.Config --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/original_config.pb
++ configtxlator proto_encode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org2MSPmodified_config.json --type common.Config --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/modified_config.pb
++ configtxlator compute_update --channel_id mychannel --original /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/original_config.pb --updated /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/modified_config.pb --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.pb
++ configtxlator proto_decode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.pb --type common.ConfigUpdate --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.json
++ jq
++ cat /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update.json
++ echo "[{"payload": {"header": {"channel_header": {"channel_id": "mychannel", "type": 2}}, "data": [{"config_update": {"channel_id": "mychannel", "isolated_data": [], "read_set": [], "groups": [{"Application": {"groups": [{"Org2MSP": {"groups": [{"mod_policy": "Admins", "policy": null, "version": 0}, {"Writers": {"mod_policy": "", "policy": null, "version": 0}, "values": [{"MSP": {"mod_policy": "", "value": null, "version": 0}, "version": 0}, {"write_set": {"groups": [{"Application": {"groups": [{"Org2MSP": {"groups": [{"mod_policy": "Admins", "policy": null, "version": 0}, {"mod_policy": "Admins", "value": null, "version": 0}, {"mod_policy": "", "policy": null, "version": 0}, {"Writers": {"mod_policy": "", "policy": null, "version": 0}, "values": [{"MSP": {"mod_policy": "", "value": null, "version": 0}, "version": 0}, {"version": 0}], "mod_policy": "", "policy": null, "version": 0}, {"mod_policy": "", "value": null, "version": 0}], "mod_policy": "", "policy": null, "version": 0}, {"mod_policy": "", "value": null, "version": 0}], "mod_policy": "", "policy": null, "version": 0}, {"mod_policy": "", "value": null, "version": 0}], "mod_policy": "", "policy": null, "version": 0}, {"mod_policy": "", "value": null, "version": 0}], "mod_policy": "", "policy": null, "version": 0}, {"mod_policy": "", "value": null, "version": 0}], "mod_policy": "", "policy": null, "version": 0}, {"mod_policy": "", "value": null, "version": 0}], "mod_policy": "", "policy": null, "version": 0}], "mod_policy": "", "policy": null, "version": 0}, "mod_policy": "", "value": null, "version": 0}], "mod_policy": "", "value": null, "version": 0}, "value": null, "version": 0}], "endorsement": [{"mod_policy": "", "policy": null, "version": 0}], "readers": [{"mod_policy": "", "value": null, "version": 0}], "version": 0}]}]}}
++ configtxlator proto_encode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_update_in_envelope.json --type common.Envelope --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org2MSPanchors.tx
2025-06-22 23:13:12.044 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-22 23:13:12.061 IST 0002 INFO [channelCmd] update -> Successfully submitted channel update
Anchor peer set for org 'Org2MSP' on channel 'mychannel'
Channel 'mychannel' joined
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh deployCC -ccn ledger -ccp ../asset-transfer-ledger-queries/chaincode-go/ -ccl go -cccp OR('Org1MSP.peer', 'Org2MSP.peer')
using docker and docker-compose
deploying chaincode on channel mychannel
executing with the following
- CHANNEL_NAME: mychannel
- CC_NAME: ledger
- CC_SRC_PATH: ../asset-transfer-ledger-queries/chaincode-go/
- CC_SRC_LANGUAGE: go
- CC_VERSION: 1.0
- CC_SEQUENCE: auto
- CC_END_POLICY: OR('Org1MSP.peer', 'Org2MSP.peer')
- CC_COLL_CONFIG: NA
- CC_INIT_FCN: NA
- DELAY: 3
- MAX_RETRY: 5
- VERBOSE: false
executing with the following
- CC_NAME: ledger
- CC_SRC_PATH: ../asset-transfer-ledger-queries/chaincode-go/
- CC_SRC_LANGUAGE: go
- CC_VERSION: 1.0
Vendoring Go dependencies at ../asset-transfer-ledger-queries/chaincode-go/
-/Desktop/hyperledger/fabric-samples/asset-transfer-ledger-queries/chaincode-go ~/Desktop/hyperledger/fabric-samples/test-network
-/Desktop/hyperledger/fabric-samples/test-network
Finished vendorizing Go dependencies
+ ['False == true']
+ peer lifecycle chaincode package ledger.tar.gz --path ..../asset-transfer-ledger-queries/chaincode-go/ --lang golang --label ledger_1.0
+ res=$?
Chaincode is packaged
Installing chaincode on peer0.org1...
Using organization 1
+ peer lifecycle chaincode queryInstalled --output json
+ jq -r 'try (.installed chaincodes[], package_id)'
+ grep 'ledger_1.0:1d1ddee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7efd9f9cd2adf37cc$'
+ test 1 -ne 0
+ peer lifecycle chaincode install ledger.tar.gz
+ res=$?
2025-06-22 23:18:49.674 IST 0001 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Installed remotely: response:<status:200 payload:"\nKledger_1.0:1d1ddee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7efd9f9cd2adf37cc$"
2025-06-22 23:18:49.675 IST 0002 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Chaincode code package identifier: ledger_1.0:1d1ddee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7e1fd9f9cd2adf37cc
Chaincode is installed on peer0.org1
Install chaincode on peer0.org2...

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Chaincode is installed on peer0.org1
Install chaincode on peer0.org2...
Using organization 2
+ peer lifecycle chaincode queryinstalled --output json
+ jq -r 'try (.installed_chaincodes[], package_id)'
+ grep 'ledger_1.0:1d1ddee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7efd9f9cd2adf37cc$'
+ test 1 -ne 0
+ peer lifecycle chaincode install ledger.tar.gz
+ res=0
2025-06-22 23:19:05.236 IST 0001 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Installed remotely: response:<status:200 payload:"\nKledger_1.0:1d1ddee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7efd9f9cd2adf37cc$"
2025-06-22 23:19:05.236 IST 0002 INFO [cli.lifecycle.chaincode] submitInstallProposal -> Chaincode code package identifier: ledger_1.0:1d1ddee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7efd9f9cd2adf37cc
Chaincode is installed on peer0.org2
++ peer lifecycle chaincode querycommitted --channelID mychannel --name ledger
++ sed -n '/Version:/ {s/.Sequence: //; s/, Endorsement Plugin: */$/; p;}'
Error: query failed with status: 404 - namespace ledger is not defined
+ COMMITTED_CC_SEQUENCE=
+ res=0
Using organization 1
+ peer lifecycle chaincode queryinstalled --output json
+ jq -r 'try (.installed_chaincodes[], package_id)'
+ grep 'ledger_1.0:1d1ddee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7efd9f9cd2adf37cc$'
+ res=0
ledger_1.0:1d1ddee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7efd9f9cd2adf37cc
Query installed successful on peer0.org1 on channel
Using organization 1
+ peer lifecycle chaincode approveformyorg -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name ledger --version 1.0 --package-id ledger_1.0:1d1ddee69eb3dad820866ca0aa3f08f2e1bc4c769460ee7efd9f9cd2adf37cc
+ res=0
2025-06-22 23:19:07.690 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [506b5fc01cfcdca97c49c65dfa9a583f14037540f21af91d43ed29a86ab9e0f] committed with status (VALID) at localhost:7051
51
Chaincode definition approved on peer0.org1 on channel 'mychannel'
Using organization 1
Checking the commit readiness of the chaincode definition on peer0.org1 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org1, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name ledger --version 1.0 --sequence 1 --signature-policy 'OR(\\"Org1MSP.peer\\",\\"Org2MSP.peer\\")'
ut json
+ res=0
{
  "approvals": {
    "Org1MSP": true,
    "Org2MSP": false
  }
}

```

```

Checking the commit readiness of the chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 2
Checking the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...
Attempting to check the commit readiness of the chaincode definition on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name ledger --version 1.0 --sequence 1 --signature-policy 'OR(\\"Org1MSP.peer\\",\\"Org2MSP.peer\\")' --output json
+ res=0
{
  "approvals": {
    "Org1MSP": true,
    "Org2MSP": true
  }
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name ledger --peerAddresses localhost:7051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1.0 --sequence 1 --signature-policy 'OR(\\"Org1MSP.peer\\",\\"Org2MSP.peer\\")'
+ res=0
2025-06-22 23:19:24.834 IST 0001 INFO [chaincodeCmd] ClientWait -> txid [c2587f1d73f992d1f601efcf849ca88e10e28a1033111532743ae11757c684d1] committed with status (VALID) at localhost:9051
51
Chaincode definition committed on channel 'mychannel'
Using organization 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 ledger
+ res=0
Committed chaincode definition for chaincode 'ledger' on channel 'mychannel':
Version: 1.0, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 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 ledger
+ res=0
Committed chaincode definition for chaincode 'ledger' on channel 'mychannel':
Version: 1.0, Sequence: 1, Endorsement Plugin: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Chaincode initialization is not required
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ export PATH=$PWD/../bin:$PATH
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ export FABRIC_CFG_PATH=$PWD/configtx
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ source ./scripts/setOrgPeerContext.sh 1

Using organization 1
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile "$PWD/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem" -C mychannel -n ledger -c '{"Args":["CreateAsset1","asset1","blue","5","tom","35"]}'
2025-06-22 23:29.759 IST 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode query -C mychannel -n ledger -c '{"Args":["QueryAssets", {"selector":{"docType":"asset","owner":"tom"}, "use_index":1,"_design/indexWnerDoc","_indexWner"}]}'
[{"docType":"asset","ID":"asset1","color":"blue","size":5,"owner":"tom","appraisedValue":35}]
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile "$PWD/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem" -C mychannel -n ledger -c '{"Args":["CreateAsset2","asset2","yellow","5","tom","35"]}'
2025-06-22 23:23:47.354 IST 0001 INFO [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls-cafile "${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem" -C mychannel -n ledger -c '{"Args":["CreateAsset","asset3","green","6","tom","20"]}' 
2025-06-22 23:24:19.166 IST 0001 [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls-cafile "${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem" -C mychannel -n ledger -c '{"Args":["CreateAsset","asset4","purple","7","tom","20"]}' 
2025-06-22 23:24:45.252 IST 0001 [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode invoke -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls-cafile "${PWD}/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/tlscacerts/tlsca.example.com-cert.pem" -C mychannel -n ledger -c '{"Args":["CreateAsset","asset5","blue","8","tom","40"]}' 
2025-06-22 23:25:16.059 IST 0001 [chaincodeCmd] chaincodeInvokeOrQuery -> Chaincode invoke successful. result: status:200
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode query -C mychannel -n ledger -c '{"Args":["QueryAssetsWithPagination", {"\\"selector": {"\\"docType": "\\"asset\", \\"owner\": \\"tom\", \\"use_Index\": \\"_design/IndexOwnerDoc\", \\"indexOwner\": \"}], "3", "3"]]}' 

{"records":[{"docType":"asset","ID":"asset1","color":"blue","size":5,"owner":"tom","appraisedValue":35}, {"docType":"asset","ID":"asset2","color":"yellow","size":5,"owner":"tom","appraisedValue":35}, {"docType":"asset","ID":"asset3","color":"green","size":6,"owner":"tom","appraisedValue":20}, {"docType":"asset","ID":"asset4","color":"purple","size":7,"owner":"tom","appraisedValue":20}, {"docType":"asset","ID":"asset5","color":"blue","size":8,"owner":"tom","appraisedValue":40}], "fetchedRecordsCount":3, "bookmark": "g1AAAABJeJzLYWBgYMpSmHgKySjLCrJtq2MT8LPzkjBYqzJRYxp5YgQ5YL1SPUGSVawJijFXKfmsUFAQeB80"} 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ peer chaincode query -C mychannel -n ledger -c '{"Args":["QueryAssetsWithPagination", {"\\"selector": {"\\"docType": "\\"asset\", \\"owner\": \\"tom\", \\"use_Index\": \\"_design/IndexOwnerDoc\", \\"indexOwner\": \"}], "3", "3"]]}' 

{"records":[{"docType":"asset","ID":"asset1","color":"blue","size":5,"owner":"tom","appraisedValue":35}, {"docType":"asset","ID":"asset2","color":"yellow","size":5,"owner":"tom","appraisedValue":35}, {"docType":"asset","ID":"asset3","color":"green","size":6,"owner":"tom","appraisedValue":20}, {"docType":"asset","ID":"asset4","color":"purple","size":7,"owner":"tom","appraisedValue":20}, {"docType":"asset","ID":"asset5","color":"blue","size":8,"owner":"tom","appraisedValue":40}], "fetchedRecordsCount":3, "bookmark": "g1AAAABJeJzLYWBgYMpSmHgKySjLCrJtq2MT8LPzkjBYqzJRYxp5YgQ5YL1SPUGSVawJijFXKfmsUFAQeB80"} 
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 
```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh down
Using docker and docker-compose
Stopping network
Stopping peer0.org2.example.com ... done
Stopping peer0.org1.example.com ... done
Stopping orderer.example.com ... done
Stopping couchdb1 ... done
Stopping couchdb1 ... done
Removing peer0.org2.example.com ... done
Removing peer0.org1.example.com ... done
Removing orderer.example.com ... done
Removing couchdb0 ... done
Removing couchdb1 ... done
Removing network fabric_test
Removing network compose_default
WARNING: Network compose_default not found.
Removing volume compose_orderer.example.com
Removing volume compose_orderer2.example.com
WARNING: Volume compose_orderer2.example.com not found.
Removing volume compose_orderer3.example.com
WARNING: Volume compose_orderer3.example.com not found.
Removing volume compose_orderer4.example.com
WARNING: Volume compose_orderer4.example.com not found.
Removing volume compose_peer0.org1.example.com
Removing volume compose_peer0.org2.example.com
Removing volume compose_peer0.org3.example.com
WARNING: Volume compose_peer0.org3.example.com not found.
Error response from daemon: get docker_orderer.example.com: no such volume
Error response from daemon: get docker_peer0.org1.example.com: no such volume
Error response from daemon: get docker_peer0.org2.example.com: no such volume
Removing remaining containers
Removing generated chaincode docker images
Untagged: dev-peer0.org2.example.com-ledger_1.0-1ddde69eb3ad820866ca0a03f08f2e1bc4c769460ee7ef9cd3af37cc-25f55695ba1bacbf542db3d40a71cc2de4caf5ba5da441ef04622a4f2e041:latest
Deleted: sha256:9ba96f0c7293ab602f38057a143df1a4d8e0260b26ef2c20ffd3299eba3
Deleted: sha256:4c1e24df6ca357fc747cb4695c0a3811309956fa27523fb5328b503cd9b53a3e
Deleted: sha256:4e0422ae1a827da4512e63cabf7a6d3a977fd434ca71cb7f5931f593d7882b
Deleted: sha256:d6385934c236dc0eddb2882d36900b050ca47be6d23a4832cf752726dede3
Untagged: dev-peer0.org1.example.com-ledger_1.0-1ddde69eb3ad820866ca0a03f08f2e1bc4c769460ee7ef9cd3af37cc-05bc2c99260be2373e314bf9343cc4b9c7c94af5b8ffe905bbc1fc370ff460d8:latest
Deleted: sha256:a65f38400b50744c9d29e523f04f6cb5fda1db71df4cf3adccfa7775259da4e
Deleted: sha256:e8fa688622e288ac4d9989001570f8ed592aaef8d8c08540e2bd772a7fa53
Deleted: sha256:34fd2b070bf0a47d9b45211e12553b4d9b47afac8b9fee0f03757a2f9e4eb
Deleted: sha256:6c5dseeca9272f63dcf9fabd20744f4cb9f4f66e63f305237d70baa5186e23
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/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_orderer2.example.com
WARNING: Volume compose_orderer2.example.com not found.
Removing volume compose_orderer3.example.com
WARNING: Volume compose_orderer3.example.com not found.
Removing volume compose_orderer4.example.com
WARNING: Volume compose_orderer4.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 response from daemon: get docker_orderer.example.com: no such volume
Error response from daemon: get docker_peer0.org1.example.com: no such volume
Error response from daemon: get docker_peer0.org2.example.com: no such volume
Removing remaining containers
Removing generated chaincode docker images
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 
```

```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh up createChannel -s couchdb -ca
Using docker and docker-compose
Creating channel 'mychannel'.
If network is not up, starting nodes with CLI timeout of '5' tries and CLI delay of '3' seconds and using database 'couchdb with crypto from 'Certificate Authorities'
Bringing up network
LOCAL_VERSION=v2.5.12
DOCKER_IMAGE_VERSION=v2.5.12
CA_LOCAL_VERSION=v1.5.15
CA_DOCKER_IMAGE_VERSION=v1.5.15
Generating certificates using Fabric CA
Creating network "fabric_test" with the default driver
Creating ca_org2 ... done
Creating ca_orderer ... done
Creating ca_org1 ... done
+ fabric-ca-client getcertinfo -u https://admin:adminpw@localhost:7054 --caname ca-org1 --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:33:15 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/fabric-ca-client -config.yaml
2025/06/22 23:33:15 [INFO] TLS Enabled
2025/06/22 23:33:15 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/cacerts/localhost-7054-ca-org1.pem
2025/06/22 23:33:15 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/IssuerPublicKey
2025/06/22 23:33:15 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/IssuerRevocationPublicKey
+ res=0
Creating Org1 Identities
Enrolling the CA admin
+ fabric-ca-client enroll -u https://admin:adminpw@localhost:7054 --caname ca-org1 --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:33:15 [INFO] Created a default configuration file at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/fabric-ca-client-config.yaml
2025/06/22 23:33:15 [INFO] TLS Enabled
2025/06/22 23:33:15 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:15 [INFO] encoded CSR
2025/06/22 23:33:15 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:15 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/cacerts/localhost-7054-ca-org1.pem
2025/06/22 23:33:15 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/IssuerPublicKey
2025/06/22 23:33:15 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/IssuerRevocationPublicKey
Registering peer0
+ fabric-ca-client register --caname ca-org1 --id.name peer0 --id.secret peer0pw --id.type peer --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:33:15 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/fabric-ca-client -config.yaml
2025/06/22 23:33:15 [INFO] TLS Enabled
2025/06/22 23:33:15 [INFO] TLS Enabled
Password: peer0pw
Registering user
+ fabric-ca-client register --caname ca-org1 --id.name user1 --id.secret user1pw --id.type client --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:33:15 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/fabric-ca-client -config.yaml
2025/06/22 23:33:15 [INFO] TLS Enabled
2025/06/22 23:33:15 [INFO] TLS Enabled
Password: user1pw
Registering the org admin
+ fabric-ca-client register --caname ca-org1 --id.name orgadmin --id.secret orgadminpw --id.type admin --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:33:15 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/fabric-ca-client -config.yaml
2025/06/22 23:33:15 [INFO] TLS Enabled
2025/06/22 23:33:15 [INFO] TLS Enabled
Password: orgadminpw
Generating the peer0 MSP
+ fabric-ca-client enroll -u https://peer0:peer0pw@localhost:7054 --caname ca-org1 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/msp/peer0.org1.example.com/msp/cacerts/cert.pem
2025/06/22 23:33:15 [INFO] TLS Enabled
2025/06/22 23:33:15 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:15 [INFO] encoded CSR
2025/06/22 23:33:15 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:15 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/msp/cacerts/localhost-7054-ca-org1.pem
2025/06/22 23:33:15 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/msp/IssuerPublicKey
2025/06/22 23:33:15 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/msp/IssuerRevocationPublicKey
Generating the peer0-tls Certificates, use --csr.hosts to specify Subject Alternative Names
+ fabric-ca-client enroll -u https://peer0:peer0pw@localhost:7054 --caname ca-org1 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls --enrollment.profile tls --csr.hosts localhost --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:33:15 [INFO] TLS Enabled
2025/06/22 23:33:15 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:15 [INFO] encoded CSR
2025/06/22 23:33:16 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/signcerts/cert.pem

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2025/06/22 23:33:16 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/cacerts/tls-localhost-7054-ca-org1.pem
2025/06/22 23:33:16 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/IssuerPublicKey
2025/06/22 23:33:16 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/IssuerRevocationPublicKey
Generating the user MSP
+ fabric-ca-client enroll -u https://user1:useripw@localhost:7054 --caname ca-org1 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/User1@org1.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:33:16 [INFO] TLS Enabled
2025/06/22 23:33:16 [INFO] generating key: &{Aeccda S:256}
2025/06/22 23:33:16 [INFO] encoded CSR
2025/06/22 23:33:16 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/User1@org1.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:16 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/User10@org1.example.com/msp/cacerts/localhost-7054-ca-org1.pem
2025/06/22 23:33:16 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/User10@org1.example.com/msp/IssuerPublicKey
2025/06/22 23:33:16 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/User10@org1.example.com/msp/IssuerRevocationPublicKey
Generating the org admin MSP
+ fabric-ca-client enroll -u https://admin:adminpw@localhost:7054 --caname ca-org1 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:16 [INFO] TLS Enabled
2025/06/22 23:33:16 [INFO] generating key: &{Aeccda S:256}
2025/06/22 23:33:16 [INFO] encoded CSR
2025/06/22 23:33:16 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:16 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp/cacerts/localhost-7054-ca-org1.pem
2025/06/22 23:33:16 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp/IssuerPublicKey
2025/06/22 23:33:16 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp/IssuerRevocationPublicKey
Creating Org2 certificates
+ fabric-ca-client config -e org2 admin
+ fabric-ca-client enroll -u https://admin:adminpw@localhost:8054 --caname ca-org2 --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:33:16 [INFO] Created a default configuration file at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/fabric-ca-client-config.yaml
2025/06/22 23:33:16 [INFO] TLS Enabled
2025/06/22 23:33:16 [INFO] generating key: &{Aeccda S:256}
2025/06/22 23:33:16 [INFO] encoded CSR
2025/06/22 23:33:16 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:16 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/msp/cacerts/localhost-8054-ca-org2.pem
2025/06/22 23:33:16 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/msp/IssuerPublicKey
2025/06/22 23:33:16 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/msp/IssuerRevocationPublicKey
Registering peer0
+ fabric-ca-client register --caname ca-org2 --id.name peer0 --id.secret peer0pw --id.type peer --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:33:16 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/fabric-ca-client-config.yaml
2025/06/22 23:33:16 [INFO] TLS Enabled
2025/06/22 23:33:16 [INFO] TLS Enabled
Password: peer0pw
Registering the org admin
+ fabric-ca-client register --caname ca-org2 --id.name org2admin --id.secret org2adminpw --id.type admin --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:33:16 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/fabric-ca-client-config.yaml
2025/06/22 23:33:16 [INFO] TLS Enabled
2025/06/22 23:33:16 [INFO] TLS Enabled
Password: org2adminpw
Generating the peer0 MSP
+ fabric-ca-client enroll -u https://peer0:peer0pw@localhost:8054 --caname ca-org2 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:33:17 [INFO] TLS Enabled
2025/06/22 23:33:17 [INFO] generating key: &{Aeccda S:256}
2025/06/22 23:33:17 [INFO] encoded CSR
2025/06/22 23:33:17 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:17 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/cacerts/localhost-8054-ca-org2.pem
2025/06/22 23:33:17 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/IssuerPublicKey
2025/06/22 23:33:17 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/IssuerRevocationPublicKey
Generating the peer0-tls certificates, use --csr.hosts to specify Subject Alternative Names
+ fabric-ca-client enroll -u https://peer0:peer0pw@localhost:8054 --caname ca-org2 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/peer0.org2.example.com/tls --enrollment-profile tls --csr-hosts peer0.org2.example.com --csr-hosts localhost --tls-certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/cert.pem

```

```

2.example.com/peers/peer0.org2.example.com/tls --enrollment.profile tls --csr.hosts peer0.org2.example.com --csr.hosts localhost --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:33:17 [INFO] TLS Enabled
2025/06/22 23:33:17 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:17 [INFO] encoded CSR
2025/06/22 23:33:17 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/signcerts/cert.pem
2025/06/22 23:33:17 [INFO] Stored TLS root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/tlscacerts/tls-localhost-9054-ca-org2.pem
2025/06/22 23:33:17 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/IssuerPublicKey
2025/06/22 23:33:17 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/IssuerRevocationPublicKey
Generating the user MSP
+ fabric-ca-client enroll -u https://user1:user1pw@localhost:8054 --caname ca-org2 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/User1@org2.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:33:17 [INFO] TLS Enabled
2025/06/22 23:33:17 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:17 [INFO] encoded CSR
2025/06/22 23:33:17 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/User1@org2.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:17 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/User1@org2.example.com/msp/cacerts/localhost-8054-ca-org2.pem
2025/06/22 23:33:17 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/User1@org2.example.com/msp/IssuerPublicKey
2025/06/22 23:33:17 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/User1@org2.example.com/msp/IssuerRevocationPublicKey
Creating the org admin MSP
+ fabric-ca-client enroll -u https://org2admin:org2adminpw@localhost:8054 --caname ca-org2 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:33:17 [INFO] TLS Enabled
2025/06/22 23:33:17 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:17 [INFO] encoded CSR
2025/06/22 23:33:17 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:17 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp/cacerts/localhost-8054-ca-org2.pem
2025/06/22 23:33:17 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp/IssuerPublicKey
2025/06/22 23:33:17 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp/IssuerRevocationPublicKey
Creating Orderer Org Identities
Enrolling the CA admin
+ fabric-ca-client enroll -u https://admin:adminpw@localhost:9054 --caname ca-orderer --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:17 [INFO] Created a default configuration file at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/fabric-ca-client-config.yaml
2025/06/22 23:33:17 [INFO] TLS Enabled
2025/06/22 23:33:17 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:17 [INFO] encoded CSR
2025/06/22 23:33:17 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/msp/signcerts/cert.pem
2025/06/22 23:33:17 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/msp/cacerts/localhost-9054-ca-orderer.pem
2025/06/22 23:33:17 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/msp/IssuerPublicKey
2025/06/22 23:33:17 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/msp/IssuerRevocationPublicKey
Registering orderer
+ fabric-ca-client register --caname ca-orderer --id.name orderer --id.secret ordererpw --id.type orderer --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:17 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/fabric-ca-client-config.yaml
2025/06/22 23:33:17 [INFO] TLS Enabled
2025/06/22 23:33:17 [INFO] TLS Enabled
Password: ordererpw
Generating the orderer MSP
+ fabric-ca-client enroll -u https://orderer:ordererpw@localhost:9054 --caname ca-orderer -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:18 [INFO] TLS Enabled
2025/06/22 23:33:18 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:18 [INFO] encoded CSR
2025/06/22 23:33:18 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:18 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/cacerts/localhost-9054-ca-orderer.pem
2025/06/22 23:33:18 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/IssuerPublicKey
2025/06/22 23:33:18 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/msp/IssuerRevocationPublicKey
Generating the orderer TLS certificates, use --csr.hosts to specify Subject Alternative Names
+ fabric-ca-client enroll -u https://orderer:ordererpw@localhost:9054 --caname ca-orderer -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/tls --enrollment.profile tls --csr.hosts orderer.example.com --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:18 [INFO] TLS Enabled
2025/06/22 23:33:18 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:18 [INFO] encoded CSR
2025/06/22 23:33:18 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/tls/signcerts/cert.pem
2025/06/22 23:33:18 [INFO] Stored TLS root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/tls/tlscacerts/tls-localhost-9054-ca-orderer.pem

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2025/06/22 23:33:18 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/tls/IssuerPublicKey
2025/06/22 23:33:18 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer.example.com/tls/IssuerRevocationPublicKey
Registering orderer2
+ fabric-ca-client register --caname ca-orderer --id.name orderer2 --id.secret orderer2pw --id.type orderer --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:18 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/fabric-ca-client-config.yaml
2025/06/22 23:33:18 [INFO] TLS Enabled
2025/06/22 23:33:18 [INFO] TLS Enabled
Password: orderer2pw
+ fabric-ca-client enroll -u https://orderer2:orderer2pw@localhost:9054 --caname ca-orderer -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer2.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:18 [INFO] TLS Enabled
2025/06/22 23:33:18 [INFO] generating key: &{Aeccda S:256}
2025/06/22 23:33:18 [INFO] encoded CSR
2025/06/22 23:33:18 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer2.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:18 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer2.example.com/msp/cacerts/localhost-9054-ca-orderer.pem
2025/06/22 23:33:18 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer2.example.com/msp/IssuerPublicKey
2025/06/22 23:33:18 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer2.example.com/msp/IssuerRevocationPublicKey
Registering orderer3
+ fabric-ca-client register --caname ca-orderer --id.name orderer3 --id.secret orderer3pw --id.type orderer --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:18 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/fabric-ca-client-config.yaml
2025/06/22 23:33:18 [INFO] TLS Enabled
2025/06/22 23:33:18 [INFO] TLS Enabled
Password: orderer3pw
Generating the orderer3 MSP
+ fabric-ca-client enroll -u https://orderer3:orderer3pw@localhost:9054 --caname ca-orderer -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer3.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:19 [INFO] TLS Enabled
2025/06/22 23:33:19 [INFO] generating key: &{Aeccda S:256}
2025/06/22 23:33:19 [INFO] encoded CSR
2025/06/22 23:33:19 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer3.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:19 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer3.example.com/msp/cacerts/localhost-9054-ca-orderer.pem
2025/06/22 23:33:19 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer3.example.com/msp/IssuerPublicKey
2025/06/22 23:33:19 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer3.example.com/msp/IssuerRevocationPublicKey
Registering orderer4
+ fabric-ca-client register --caname ca-orderer --id.name orderer4 --id.secret orderer4pw --id.type orderer --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:19 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/fabric-ca-client-config.yaml
2025/06/22 23:33:19 [INFO] TLS Enabled
2025/06/22 23:33:19 [INFO] TLS Enabled
Password: orderer4pw
Generating the orderer4 MSP
+ fabric-ca-client enroll -u https://orderer4:orderer4pw@localhost:9054 --caname ca-orderer -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:19 [INFO] TLS Enabled
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2025/06/22 23:33:19 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:19 [INFO] encoded CSR
2025/06/22 23:33:19 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/msp/signcerts/cert.pem
2025/06/22 23:33:19 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/msp/cacerts/localhost-9054-ca-orderer.pem
2025/06/22 23:33:19 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/msp/IssuerPublicKey
2025/06/22 23:33:19 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/msp/IssuerRevocationPublicKey
Using 'fabric-ca-client enroll -u https://orderer4/orderer4pw@localhost:9054 --caname ca-orderer -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/tls/signcerts/cert.pem' to specify Subject Alternative Names
+ fabric-ca-client enroll -u https://orderer4/orderer4pw@localhost:9054 --caname ca-orderer -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/tls/signcerts/cert.pem
2025/06/22 23:33:19 [INFO] TLS Enabled
2025/06/22 23:33:19 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:19 [INFO] encoded CSR
2025/06/22 23:33:19 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/tls/signcerts/cert.pem
2025/06/22 23:33:19 [INFO] Stored TLS root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/tls/cacerts/tls-localhost-9054-ca-orderer.pem
2025/06/22 23:33:19 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/tls/IssuerPublicKey
2025/06/22 23:33:19 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/orderers/orderer4.example.com/tls/IssuerRevocationPublicKey
Generating admin cert
+ fabric-ca-client register --caname ca-orderer -id.name ordererAdmin -id.secret ordererAdminpw --id.type admin --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/ordererOrg/ca-cert.pem
2025/06/22 23:33:19 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/fabric-ca-client-config.yaml
2025/06/22 23:33:19 [INFO] TLS Enabled
2025/06/22 23:33:19 [INFO] TLS Enabled
Password: ordererAdminpw
Generating the admin cert
+ fabric-ca-client enroll -u https://ordererAdmin:ordererAdminpw@localhost:9054 --caname ca-orderer -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/users/Admin@example.com/msp/signcerts/cert.pem
2025/06/22 23:33:20 [INFO] TLS Enabled
2025/06/22 23:33:20 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:33:20 [INFO] encoded CSR
2025/06/22 23:33:20 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/users/Admin@example.com/msp/signcerts/cert.pem
2025/06/22 23:33:20 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/users/Admin@example.com/msp/cacerts/localhost-9054-ca-orderer.pem
2025/06/22 23:33:20 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/users/Admin@example.com/msp/IssuerPublicKey
2025/06/22 23:33:20 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/users/Admin@example.com/msp/IssuerRevocationPublicKey
Generating CCP file for Org1 and Org2
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
WARNING: Found orphan containers (ca_org1, ca_org2, ca_orderer) for this project. If you removed or renamed this service in your compose file, you can run this command with the --remove-orphan flag to clean it up.
Creating couchdb0      ... done
Creating couchdb1      ... done
Creating orderer.example.com ... done
Creating peer0.org1.example.com ... done
Creating peer0.org2.example.com ... done
Creating peer0.org3.example.com ... done
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS
ea2b8a66e002        hyperledger/fabric-peer:latest   "peer node start"    Less than a second ago   Up Less than a second   0.0.0.0:9051->9051/tcp, ::1:9051->9051/tcp, 7051/tcp, 0.0.0.0:9445->9445/tcp, ::1:9445->9445/tcp
98a4d53a00a992      hyperledger/fabric-peer:latest   "peer node start"    Less than a second ago   Up Less than a second   0.0.0.0:7051->7051/tcp, ::1:7051->7051/tcp, 0.0.0.0:9444->9444/tcp, ::1:9444->9444/tcp
b431f248b476        couchdb:3.4.2                  "tini -- /docker-ent..."  1 second ago          Up Less than a second   4369/tcp, 9100/tcp, 0.0.0.0:7984->5984/tcp, ::1:7984->5984/tcp
tcp://77b640a04e81  hyperledger/fabric-orderer:latest "orderer"           1 second ago          Up Less than a second   0.0.0.0:7050->7050/tcp, ::1:7050->7050/tcp, 0.0.0.0:7053->7053/tcp, ::1:7053->7053/tcp, 0.0.0.0:9443->9443/tcp, ::1:9443->9443/tcp
a212642a2f5a        couchdb:3.4.2                  "tini -- /docker-ent..."  1 second ago          Up Less than a second   4369/tcp, 9100/tcp, 0.0.0.0:5984->5984/tcp, ::1:5984->5984/tcp
tcp://af016a33928c  hyperledger/fabric-ca:latest    "sh -c 'fabric-ca-se..."  9 seconds ago         Up 9 seconds          0.0.0.0:9054->9054/tcp, ::1:9054->9054/tcp, 7054/tcp, 0.0.0.0:19054->19054/tcp, ::1:19054->19054/tcp
f05c7d50c9fb        hyperledger/fabric-ca:latest    "sh -c 'fabric-ca-se..."  9 seconds ago         Up 9 seconds          0.0.0.0:7054->7054/tcp, ::1:7054->7054/tcp, 0.0.0.0:17054->17054/tcp, ::1:17054->17054/tcp
8cdffbb20e922      hyperledger/fabric-ca:latest    "sh -c 'fabric-ca-se..."  9 seconds ago         Up 9 seconds          0.0.0.0:18054->18054/tcp, ::1:18054->18054/tcp
Using Docker and docker-compose
Generating channel genesis block 'mychannel.block'
Using organization
/home/trushang/Desktop/hyperledger/fabric-samples/test-network/../bin/configtxgen
+ ['0 -ed 1']
+ configtxgen -profile ChannelUsingRaft -outputBlock ./channel-artifacts/mychannel.block -channelID mychannel
2025-06-22 23:33:22.033 IST 0001 INFO [common.tools.configtxgen] main -> Loading configuration
2025-06-22 23:33:22.039 IST 0002 INFO [common.tools.configtxgen.localconfig] completeInitialization -> orderer type: etcraftraft
2025-06-22 23:33:22.039 IST 0003 INFO [common.tools.configtxgen.localconfig] completeInitialization -> Orderer.Etcraftraft.Options unset, setting to tick_interval:"500ms" election_tick:10 heartbeat_tick:1 max_inflight_blocks:5 snapshot_interval_size:16777216
2025-06-22 23:33:22.039 IST 0004 INFO [common.tools.configtxgen.localconfig] Load -> Loaded configuration: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/configtx/configtx.yaml
2025-06-22 23:33:22.042 IST 0005 INFO [common.tools.configtxgen] doOutputBlock -> Generating genesis block
2025-06-22 23:33:22.042 IST 0006 INFO [common.tools.configtxgen] doOutputBlock -> Creating application channel genesis block
2025-06-22 23:33:22.042 IST 0007 INFO [common.tools.configtxgen] doOutputBlock -> Writing genesis block

```

```
2025-06-22 23:33:22.042 IST 0007 INFO [common.tools.configtxgen] doOutputBlock -> Writing genesis block
+ res=0
Creating channel mychannel
Adding orderers
+ ./scripts/orderer.sh mychannel
+[ 0 -eq 1 ]'
+ res=0
Status: 201
{
  "name": "mychannel",
  "url": "/participation/v1/channels/mychannel",
  "consensusRelation": "consenter",
  "status": "active",
  "height": 1
}

Channel 'mychannel' created
Joining org1 peer to the channel...
Using organization 1
+ peer channel join -b ./channel-artifacts/mychannel.block
+ res=0
2025-06-22 23:33:28.201 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-22 23:33:28.401 IST 0002 INFO [channelCmd] executeJoin -> Successfully submitted proposal to join channel
Joining org2 peer to the channel...
Using organization 2
+ peer channel join -b ./channel-artifacts/mychannel.block
+ res=0
2025-06-22 23:33:31.480 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-22 23:33:31.674 IST 0002 INFO [channelCmd] executeJoin -> Successfully submitted proposal to join channel
Setting anchor peer for org1...
Using organization 1
Fetching channel config for channel mychannel
Using organization 1
Fetching the most recent configuration block for the channel
++ peer channel fetch config /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com -c mychannel --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem
2025-06-22 23:33:31.746 IST 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer connections initialized
2025-06-22 23:33:31.749 IST 0002 INFO [cli.common] readBlock -> Received block: 0
2025-06-22 23:33:31.750 IST 0003 INFO [channelCmd] fetch -> Retrieving last config block: 0
2025-06-22 23:33:31.751 IST 0004 INFO [cli.common] readBlock -> Received block: 0
Decoding config block to JSON and isolating config to /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPconfig.json
++ configtxlator proto_decode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb --type common.Block --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ jq '.data.data[0].payload.data.config' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ res=0
```



```

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh down
Using docker and docker-compose
Stopping network
Stopping peer0.org2.example.com ... done
Stopping peer0.org1.example.com ... done
Stopping couchdb1 ... done
Stopping orderer.example.com ... done
Stopping couchdb0 ... done
Stopping ca_orderer ... done
Stopping ca_org1 ... done
Stopping ca_org2 ... done
Removing peer0.org2.example.com ... done
Removing peer0.org1.example.com ... done
Removing couchdb1 ... done
Removing orderer.example.com ... done
Removing couchdb0 ... done
Removing ca_orderer ... done
Removing ca_org1 ... done
Removing ca_org2 ... done
Removing network fabric_test
Removing network compose_default
WARNING: Network compose_default not found.
Removing volume compose_orderer.example.com
Removing volume compose_orderer2.example.com
WARNING: Volume compose_orderer2.example.com not found.
Removing volume compose_orderer3.example.com
WARNING: Volume compose_orderer3.example.com not found.
Removing volume compose_orderer4.example.com
WARNING: Volume compose_orderer4.example.com not found.
Removing volume compose_peer0.org1.example.com
Removing volume compose_peer0.org2.example.com
Removing volume compose_peer0.org3.example.com
WARNING: Volume compose_peer0.org3.example.com not found.
Error response from daemon: get docker_orderer.example.com: no such volume
Error response from daemon: get docker_peer0.org1.example.com: no such volume
Error response from daemon: get docker_peer0.org2.example.com: no such volume
Removing remaining containers
Removing generated chaincode docker images
trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ 

trushang@trushang-HP-Laptop-15s-fr5xxx:~/Desktop/hyperledger/fabric-samples/test-network$ ./network.sh up createChannel -c mychannel -ca
Using docker and docker-compose
Creating channel 'mychannel'.
If network is not up, starting nodes with CLI timeout of '5' tries and CLI delay of '3' seconds and using database 'leveldb with crypto from 'Certificate Authorities'
Bringing up network
LOCAL_VERSION=v2.5.12
DOCKER_IMAGE_VERSION=v2.5.12
CA_LOCAL_VERSION=v1.5.15
CA_DOCKER_IMAGE_VERSION=v1.5.15
Generating certificates using Fabric CA
Creating network "fabric_test" with the default driver
Creating ca.org1 ... done
Creating ca.org2 ... done
Creating ca.orderer ... done
* fabric-ca-client getcainfo -u https://admin:adminpw@localhost:7054 --caname ca-org1 --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:38:24 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/fabric-ca-client-config.yaml
2025/06/22 23:38:24 [INFO] TLS Enabled
2025/06/22 23:38:24 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/cacerts/localhost-7054-ca-org1.pem
2025/06/22 23:38:24 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/IssuerPublicKey
2025/06/22 23:38:24 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/IssuerRevocationPublicKey
+ res=0
Creating Org1 Identities
Enrolling the CA admin
+ fabric-ca-client enroll -u https://admin:adminpw@localhost:7054 --caname ca-org1 --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:38:24 [INFO] Created a default configuration file at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/fabric-ca-client-config.yaml
2025/06/22 23:38:24 [INFO] TLS Enabled
2025/06/22 23:38:24 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:38:24 [INFO] encoded CSR
2025/06/22 23:38:24 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/signcerts/cert.pem
2025/06/22 23:38:24 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/cacerts/localhost-7054-ca-org1.pem
2025/06/22 23:38:24 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/IssuerPublicKey
2025/06/22 23:38:24 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/msp/IssuerRevocationPublicKey
Registering peer0

```

```

+ fabric-ca-client register --caname ca-org1 --id.name peer0 --id.secret peer0pw --id.type peer --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:38:24 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/fabric-ca-client-config.yaml
2025/06/22 23:38:24 [INFO] TLS Enabled
2025/06/22 23:38:24 [INFO] TLS Enabled
Password: peer0pw
Registering user
+ fabric-ca-client register --caname ca-org1 --id.name user1 --id.secret user1pw --id.type client --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:38:24 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/fabric-ca-client-config.yaml
2025/06/22 23:38:24 [INFO] TLS Enabled
2025/06/22 23:38:24 [INFO] TLS Enabled
Password: user1pw
Registering the org admin
+ fabric-ca-client register --caname ca-org1 --id.name org1admin --id.secret org1adminpw --id.type admin --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:38:25 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/fabric-ca-client-config.yaml
2025/06/22 23:38:25 [INFO] TLS Enabled
2025/06/22 23:38:25 [INFO] TLS Enabled
Password: org1adminpw
Generating the peer0 csr
+ Fabric-ca-client enroll -u https://peer0:peer0pw@localhost:7054 --caname ca-org1 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:38:25 [INFO] TLS Enabled
2025/06/22 23:38:25 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:38:25 [INFO] encoded CSR
2025/06/22 23:38:25 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/msp/signcerts/cert.pem
2025/06/22 23:38:25 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/msp/cacerts/localhost-7054-ca-org1.pem
2025/06/22 23:38:25 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/msp/IssuerPublicKey
2025/06/22 23:38:25 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/msp/IssuerRevocationPublicKey
Generating the peer0 certificates, use --csr.hosts to specify Subject Alternative Names
+ Fabric-ca-client enroll -u https://peer0:peer0pw@localhost:7054 --caname ca-org1 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls --enrollment.profile tls --csr.hosts localhost --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:38:25 [INFO] TLS Enabled
2025/06/22 23:38:25 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:38:25 [INFO] encoded CSR
2025/06/22 23:38:25 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/signcerts/cert.pem
2025/06/22 23:38:25 [INFO] Stored TLS root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/tlscacerts/tls-localhost-7054-ca-org1.pem
2025/06/22 23:38:25 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/IssuerPublicKey
2025/06/22 23:38:25 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/peers/peer0.org1.example.com/tls/IssuerRevocationPublicKey
Generating the user csr
+ Fabric-ca-client enroll -u https://user1:use1pw@localhost:7054 --caname ca-org1 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:38:25 [INFO] TLS Enabled
2025/06/22 23:38:25 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:38:25 [INFO] encoded CSR
2025/06/22 23:38:25 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/User1@org1.example.com/msp/signcerts/cert.pem
2025/06/22 23:38:25 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/User1@org1.example.com/msp/cacerts/localhost-7054-ca-org1.pem
2025/06/22 23:38:25 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/User1@org1.example.com/msp/IssuerPublicKey
2025/06/22 23:38:25 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/User1@org1.example.com/msp/IssuerRevocationPublicKey
Creating the org admin sp
+ fabric-ca-client enroll -u https://org1admin:org1adminpw@localhost:7054 --caname ca-org1 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org1/ca-cert.pem
2025/06/22 23:38:25 [INFO] TLS Enabled
2025/06/22 23:38:25 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:38:25 [INFO] encoded CSR
2025/06/22 23:38:25 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp/signcerts/cert.pem
2025/06/22 23:38:25 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp/cacerts/localhost-7054-ca-org1.pem
2025/06/22 23:38:25 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp/IssuerPublicKey
2025/06/22 23:38:25 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org1.example.com/users/Admin@org1.example.com/msp/IssuerRevocationPublicKey
Enrolling the CA admin
+ fabric-ca-client enroll -u https://admin:adminpw@localhost:8054 --caname ca-org2 --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:38:25 [INFO] Created a default configuration file at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/fabric-ca-client-config.yaml
2025/06/22 23:38:25 [INFO] TLS Enabled
2025/06/22 23:38:25 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:38:25 [INFO] encoded CSR
2025/06/22 23:38:26 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/msp/signcerts/cert.pem

```

```

2025/06/22 23:38:26 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/msp/cacerts/localhost-8054-ca-org2.pem
2025/06/22 23:38:26 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/msp/IssuerPublicKey
2025/06/22 23:38:26 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/msp/IssuerRevocationPublicKey
Registering peer0
+ fabric-ca-client register --caname ca-org2 --id.name peer0 --id.secret peer0pw --id.type peer --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:38:26 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/fabric-ca-client-config.yaml
2025/06/22 23:38:26 [INFO] TLS Enabled
2025/06/22 23:38:26 [INFO] TLS Enabled
Password: peer0pw
Registering user
+ fabric-ca-client register --caname ca-org2 --id.name user1 --id.secret user1pw --id.type client --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:38:26 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/fabric-ca-client-config.yaml
2025/06/22 23:38:26 [INFO] TLS Enabled
2025/06/22 23:38:26 [INFO] TLS Enabled
Password: user1pw
Registering the org admin
+ fabric-ca-client register --caname ca-org2 --id.name org2admin --id.secret org2adminpw --id.type admin --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:38:26 [INFO] Configuration file location: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/fabric-ca-client-config.yaml
2025/06/22 23:38:26 [INFO] TLS Enabled
2025/06/22 23:38:26 [INFO] TLS Enabled
Password: org2adminpw
Generating peer0-tls certificates
+ fabric-ca-client enroll -u https://peer0:peer0pw@localhost:8054 --caname ca-org2 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/peer0.org2.example.com/msp/tls-certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:38:26 [INFO] TLS Enabled
2025/06/22 23:38:26 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:38:26 [INFO] encoded CSR
2025/06/22 23:38:26 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/cacerts/cert.pem
2025/06/22 23:38:26 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/IssuerPublicKey
2025/06/22 23:38:26 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/IssuerRevocationPublicKey
Generating the peer0-tls certificates, use --csr.hosts to specify Subject Alternative Names
Generating the peer0-tls certificates, use --csr.hosts to specify Subject Alternative Names
+ fabric-ca-client enroll -u https://peer0:peer0pw@localhost:8054 --caname ca-org2 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/peer0.org2.example.com/tls --enrollment.profile tls --csr.hosts peer0.org2.example.com --csr.hosts localhost --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:38:26 [INFO] TLS Enabled
2025/06/22 23:38:26 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:38:26 [INFO] encoded CSR
2025/06/22 23:38:26 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/signcerts/cert.pem
2025/06/22 23:38:26 [INFO] Stored TLS root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/tlscacerts/tls-localhost-8054-ca-org2.pem
2025/06/22 23:38:26 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/tls/IssuerPublicKey
2025/06/22 23:38:26 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/peers/peer0.org2.example.com/msp/tls/IssuerRevocationPublicKey
Generating peer1-tls certificates
+ fabric-ca-client enroll -u https://user1:user1pw@localhost:8054 --caname ca-org2 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/User1@org2.example.com/msp/user1org2.example.com/msp/tls-certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:38:26 [INFO] TLS Enabled
2025/06/22 23:38:26 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:38:26 [INFO] encoded CSR
2025/06/22 23:38:26 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/User1@org2.example.com/msp/cacerts/cert.pem
2025/06/22 23:38:26 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/User1@org2.example.com/msp/acerts/localhost-8054-ca-org2.pem
2025/06/22 23:38:26 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/User1@org2.example.com/msp/IssuerPublicKey
2025/06/22 23:38:26 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/User1@org2.example.com/msp/IssuerRevocationPublicKey
Generating the org admin
+ fabric-ca-client enroll -u https://org2admin:org2adminpw@localhost:8054 --caname ca-org2 -M /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp/Admin@org2.example.com/tls --tls.certfiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/fabric-ca/org2/ca-cert.pem
2025/06/22 23:38:27 [INFO] TLS Enabled
2025/06/22 23:38:27 [INFO] generating key: &{A:ecdsa S:256}
2025/06/22 23:38:27 [INFO] encoded CSR
2025/06/22 23:38:27 [INFO] Stored client certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp/signcerts/cert.pem
2025/06/22 23:38:27 [INFO] Stored root CA certificate at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp/acerts/localhost-8054-ca-org2.pem
2025/06/22 23:38:27 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp/IssuerPublicKey
2025/06/22 23:38:27 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/peerOrganizations/org2.example.com/users/Admin@org2.example.com/msp/IssuerRevocationPublicKey
Creating Orderer Org Identities
Enrolling the CA admin

```



```

le.com/msp/cacerts/localhost-9054-ca-orderer.pem
2025/06/22 23:38:29 [INFO] Stored Issuer public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/users/Admin@example.com/msp/IssuerPublicKey
2025/06/22 23:38:29 [INFO] Stored Issuer revocation public key at /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/users/Admin@example.com/msp/IssuerRevocationPublicKey
Generating CCP file for Org1 and Org2
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
WARNING: Found orphan containers (ca_org2, ca_orderer, ca_org1) for this project. If you removed or renamed this service in your compose file, you can run this command with the --remove-orphan flag to clean it up.
Creating peer0.org1.example.com ... done
Creating peer0.org2.example.com ... done
Creating orderer.example.com ... done
CONTAINER ID IMAGE COMMAND CREATED NAMES STATUS PORTS
ae416b9d0e93 hyperledger/fabric-orderer:latest "orderer" 1 second ago Up Less than a second 0.0.0.0:7050->7050/tcp, [::]:7050->7050/tcp, 0.0.0.0:7053->7053/tcp
, [:]:7053/tcp, 0.0.0.0:9443->9443/tcp, [::]:9443->9443/tcp orderer.example.com
fbc1fcfcfd02 hyperledger/fabric-peer:latest "peer node start" 1 second ago Up Less than a second 0.0.0.0:9051->9051/tcp, [::]:9051->9051/tcp, 7051/tcp, 0.0.0.0:9445->9445/tcp
->9445/tcp, [::]:9445->9445/tcp peer0.org2.example.com
e73c08af1988 hyperledger/fabric-peer:latest "peer node start" 1 second ago Up Less than a second 0.0.0.0:7051->7051/tcp, [::]:7051->7051/tcp, 0.0.0.0:9444->9444/tcp
, [:]:9444->9444/tcp peer0.org1.example.com
aab6b9c869f69 hyperledger/fabric-ca:latest "sh -c 'fabric-ca-se...' 10 seconds ago Up 9 seconds 0.0.0.0:7054->7054/tcp, [::]:7054->7054/tcp, 0.0.0.0:17054->17054/tcp
cp, [:]:17054->17054/tcp ca_org1
3be7fb7553a hyperledger/fabric-ca:latest "sh -c 'fabric-ca-se...' 10 seconds ago Up 9 seconds 0.0.0.0:9054->9054/tcp, [::]:9054->9054/tcp, 7054/tcp, 0.0.0.0:19054->19054/tcp
4->19054/tcp, [::]:19054->19054/tcp ca_orderer
491332c17311 hyperledger/fabric-ca:latest "sh -c 'fabric-ca-se...' 10 seconds ago Up 9 seconds 0.0.0.0:8054->8054/tcp, [::]:8054->8054/tcp, 7054/tcp, 0.0.0.0:18054->18054/tcp
4->18054/tcp, [::]:18054->18054/tcp ca_org2
Using docker and docker-compose
Generating channel genesis block 'mychannel.block'
Using organization 1
/home/trushang/Desktop/hyperledger/fabric-samples/test-network/../bin/configtxgen
+ '[' 0 -eq 1 ']'
+ configtxgen -profile ChannelUsingRaft -outputBlock ./channel-artifacts/mychannel.block -channelID mychannel
2025/06/22 23:38:31.164 IST 0001 INFO [common.tools.configtxgen] main --> Loading configuration
2025/06/22 23:38:31.171 IST 0002 INFO [common.tools.configtxgen.localconfig] completeInitialization --> orderer type: etcdraft
2025/06/22 23:38:31.171 IST 0003 INFO [common.tools.configtxgen.localconfig] completeInitialization --> Orderer.EtcdRaft.Options unset, setting to tick_interval:"500ms" election_tick:10
heartbeat_tick:1 max_inflight_blocks:5 snapshot_interval_size:16777216
2025/06/22 23:38:31.171 IST 0004 INFO [common.tools.configtxgen.localconfig] Load --> Loaded configuration: /home/trushang/Desktop/hyperledger/fabric-samples/test-network/configtx/configtx.yaml
2025/06/22 23:38:31.174 IST 0005 INFO [common.tools.configtxgen] doOutputBlock --> Generating genesis block
2025/06/22 23:38:31.174 IST 0006 INFO [common.tools.configtxgen] doOutputBlock --> Creating application channel genesis block
2025/06/22 23:38:31.174 IST 0007 INFO [common.tools.configtxgen] doOutputBlock --> Writing genesis block
+ res=0
Creating channel mychannel
Adding orderers
+ . scripts/orderer.sh mychannel
+ '[' 0 -eq 1 ']'
+ res=0
Status: 201
{
  "name": "mychannel",
  "url": "participation/v1/channels/mychannel",
  "consensusRelation": "consenter",
  "status": "active",
  "height": 1
}

Channel 'mychannel' created
Joining org1 peer to the channel...
Using organization 1
+ peer channel join -b ./channel-artifacts/mychannel.block
+ res=0
2025/06/22 23:38:37.394 IST 0001 INFO [channelCmd] InitCmdFactory --> Endorser and orderer connections initialized
2025/06/22 23:38:37.433 IST 0002 INFO [channelCmd] executeJoin --> Successfully submitted proposal to join channel
Joining org2 peer to the channel...
Using organization 2
+ peer channel join -b ./channel-artifacts/mychannel.block
+ res=0
2025/06/22 23:38:40.513 IST 0001 INFO [channelCmd] InitCmdFactory --> Endorser and orderer connections initialized
2025/06/22 23:38:40.629 IST 0002 INFO [channelCmd] executeJoin --> Successfully submitted proposal to join channel
Setting anchor peer for org1...
Using organization 1
Fetching channel config for channel mychannel
Using organization 1
Forcing the most recent configuration block for the channel
++ peer channel fetch config /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com -c mychannel --tls --cacfile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem
2025/06/22 23:38:40.781 IST 0001 INFO [channelCmd] InitCmdFactory --> Endorser and orderer connections initialized
2025/06/22 23:38:40.784 IST 0002 INFO [cli.common] readBlock --> Received block: 0
2025/06/22 23:38:40.784 IST 0003 INFO [channelCmd] fetch --> Retrieving last config block: 0
2025/06/22 23:38:40.786 IST 0004 INFO [cli.common] readBlock --> Received block: 0
Decoding config block to JSON and isolating config to /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPconfig.json
++ configtxlator proto_decode --input /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.pb --type common.Block --output /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ jq '.data.data[0].payload.data.config' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/config_block.json
++ res=0
Generating anchor peer update transaction for Org1 on channel mychannel
++ jq '.channel_group.groups.Application.groups.Org1MSP.values += [{"mod_policy": "Admins", "value": {"anchor_peers": [{"host": "peer0.org1.example.com", "port": 7051}]}}, {"version": "0"}]' /home/trushang/Desktop/hyperledger/fabric-samples/test-network/channel-artifacts/Org1MSPconfig.json

```



```

        }
    }
    Checking the commit readiness of the chaincode definition successful on peer0.org1 on channel 'mychannel'
    Using organization 2
    Checking the commit readiness of the chaincode definition on peer0.org2 on channel 'mychannel'...
    Attempting to check the commit readiness of the chaincode definition on peer0.org2, Retry after 3 seconds.
+ peer lifecycle chaincode checkcommitreadiness --channelID mychannel --name basic --version 1.0 --sequence 1 --output json
+ res=0
{
    "approvals": [
        "Org1MSP": true,
        "Org2MSP": true
    ]
}
Checking the commit readiness of the chaincode definition successful on peer0.org2 on channel 'mychannel'
Using organization 1
Using organization 2
+ peer lifecycle chaincode commit -o localhost:7050 --ordererTLSHostnameOverride orderer.example.com --tls --cafile /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/example.com/tlsca/tlsca.example.com-cert.pem --channelID mychannel --name basic --peerAddresses localhost:7051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/org1.example.com/tlsca/tlsca.org1.example.com-cert.pem --peerAddresses localhost:9051 --tlsRootCertFiles /home/trushang/Desktop/hyperledger/fabric-samples/test-network/organizations/ordererOrganizations/org2.example.com/tlsca/tlsca.org2.example.com-cert.pem --version 1.0 --sequence 1
+ res=0
2025-06-23 00:07:57.698 IST 0001 INFO [chaincodeCmd] ClientWait --> txid [4da8f24d4cb3bb5afb413033e113e750ccaf9d430142eb1ddd07732ebe495f7] committed with status (VALID) at localhost:9051
51
2025-06-23 00:07:57.699 IST 0002 INFO [chaincodeCmd] ClientWait --> txid [4da8f24d4cb3bb5afb413033e113e750ccaf9d430142eb1ddd07732ebe495f7] committed with status (VALID) at localhost:7050
51
Chaincode definition committed on channel 'mychannel'
Using organization 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: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org1 on channel 'mychannel'
Using organization 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: escc, Validation Plugin: vscc, Approvals: [Org1MSP: true, Org2MSP: true]
Query chaincode definition successful on peer0.org2 on channel 'mychannel'
Chaincode initialization is not required
trushang@trushang-HP-Laptop-15s-fr5xxx:/Desktop/hyperledger/fabric-samples/test-networks
```

Signature of External Guide

Student Id: 22IT116
 Student Name: TRUSHANGKUMAR SUMANBHAI PATEL

Signature of Internal Guide