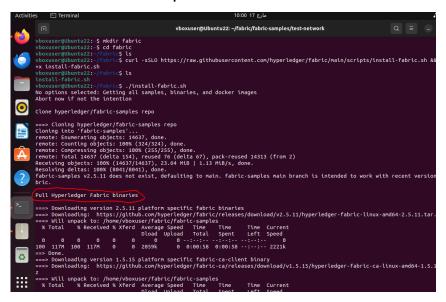
HYPERLEDGER FABRIC

RUN STEPS-INTERACTING WITH THE NETWORK

Install fabric and fabric samples



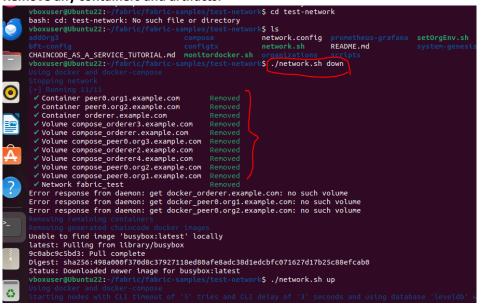
Pulling the docker containers

Commented [D1]:

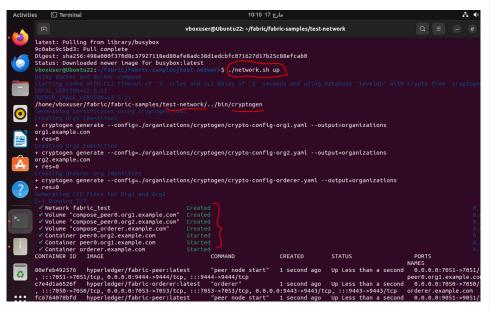
Navigate to test network directory;

```
hyperledger/fabric-ccenv
hyperledger/fabric-baseos concess
hyperledger/fab
```

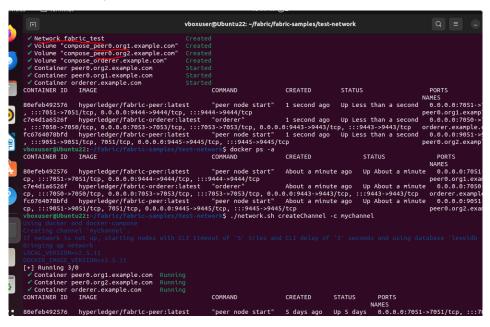
Remove any containers and artifacts:



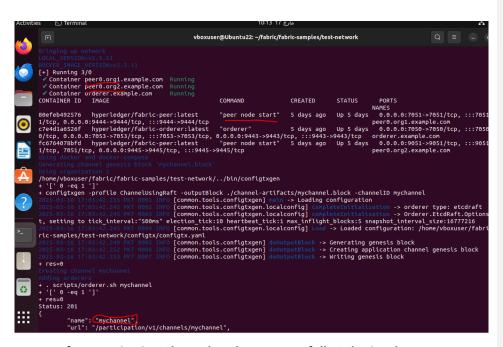
Up the network:



Channel for the peer created:

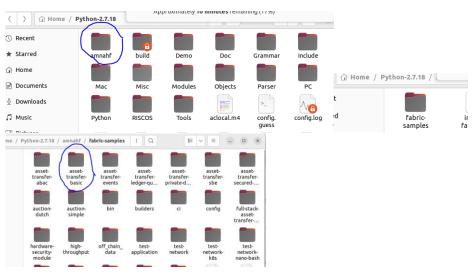


Adding 2 organizations in the created network:

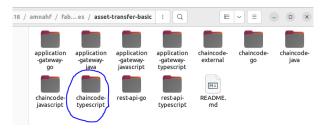


Peer set for organization, Channel Update successfully Submitted:

ORGANIZATION 1, ORGANIZATION 2



Chain code for mychannel;



Opening chaincode file in docker;



Docker entrypoint, for fabric samples;

AssetTransfer

```
docker-entrypoint.sh
                                                                                                         assetTransfer.ts
1 //*
2 * SPDX-License-Identifier: Apache-2.0
3 */
  4 // Deterministic JSON.stringify()
  5 import {Context, Contract, Info, Returns, Transaction} from 'fabric-contract-api';
6 import stringify from 'json-stringify-deterministic';
7 import sortKeysRecursive from 'sort-keys-recursive';
  8 import {Asset} from './asset';
 10 @Info({title: 'AssetTransfer', description: 'Smart contract for trading assets'})
 11 export class AssetTransferContract extends Contract {
 12
           @Transaction()
public async InitLedger(ctx: Context): Promise<void> {
    const assets: Asset[] = [
 13
 14
 15
 16
                       {
                             ID: 'asset1',
Color: 'blue',
 17
 18
                             Size: 5,
Owner: 'Tomoko',
AppraisedValue: 300,
 20
21
 22
 23
                            ID: 'asset2',
Color: 'red',
Size: 5,
Owner: 'Brad',
24
25
 26
 27
28
29
                             AppraisedValue: 400,
 30
 31
                             ID: 'asset3',
                            Color: 'green',
Size: 10,
Owner: 'Jin Soo',
AppraisedValue: 500,
 32
 33
 34
 35
```

This contract allow us to to have a ledger as well everytime we do a transfer.

Deploying chaincode on peers and channel:

```
Voxuser@Ubuntu22:-/fabric/fabric-samples/test-network$ ./network.sh deployCC -ccn basic -ccp ../asset-transfer-basic/chaincode-type script -ccl typescript
Using docker and docker-compose deploying chaincode on channel 'nychannel' executing with the following
- CC_NAME: NAME: nychannel
- CC_NAME: basic
- CC_SRC_PATH: ./asset-transfer-basic/chaincode-typescript
- CC_VERSION: 1.0
- CC_SC_ENCHEC: auto
- CC_SC_ENCERC: auto
- CC_CS_CONTEC: NA
- CC_COLC_CONTEC: NA
- CC_COLC
```

Chaincode installed on peer of org1 and org 2

Interacting with the network

Setting up the environment variables to operate peer as org1.

