

## HYPERLEDGER FABRIC DEMO

### FBCT LAB -

```
hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ sudo snap install curl
curl 8.1.2 from Wouter van Bommel (woutervb) installed
```

```
hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ curl --version
curl 8.1.2 (x86_64-pc-linux-gnu) libcurl/8.1.2 OpenSSL/1.1.1f zlib/1.2.11 brotli/1.0.7 zstd/1.4.4
libidn2/2.2.0 libpsl/0.21.0 (+libidn2/2.2.0) libssh/0.9.3/openssl/zlib nghttp2/1.40.0 librtmp/2.3
libgsasl/1.8.1
Release-Date: 2023-05-30
Protocols: dict file ftp ftps gopher gophers http https imap imaps ldap ldaps mqtt pop3 pop3s rtmp
rtsp scp sftp smb smbs smtp smtps telnet tftp
Features: alt-svc AsynchDNS brotli gssapi GSS-API HSTS HTTP2 HTTPS-proxy IDN IPv6
Kerberos Largefile libz NTLM NTLM_WB PSL SPNEGO SSL threadsafe TLS-SRP UnixSockets
zstd
```

```
hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ sudo apt install nodejs
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ node --version
v12.22.9
```

```
hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ sudo apt-get install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ sudo apt-get install python2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ sudo apt-get install libltdl-dev
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ sudo snap install docker
docker 20.10.24 from Canonical** installed
```

```
duser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ docker --version
Docker version 20.10.24, build 297e128
```

```
hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ sudo apt install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~$ sudo pip install docker-compose
```

Collecting docker-compose

Downloading docker\_compose-1.29.2-py2.py3-none-any.whl (114 kB)

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114.8/114.8 KB 1.6 MB/s eta 0:00:00

hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~\$ **sudo apt install docker-compose**

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~\$ **curl -sSL https://bit.ly/2ysbOFE**  
**| bash -s**

Clone hyperledger/fabric-samples repo

====> Cloning hyperledger/fabric-samples repo

Cloning into 'fabric-samples'...

hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~\$ **cd fabric-samples**

hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~/fabric-samples\$ **cd test-network**

hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~/fabric-samples/test-network\$ **sudo**  
**./network.sh up**

Using docker and docker-compose

hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~/fabric-samples/test-network\$ **sudo**  
**docker exec peer0.org1.example.com peer channel list**

2023-10-18 05:45:58.177 UTC 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer  
connections initialized

Channels peers has joined:

hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~/fabric-samples/test-network\$ **sudo**  
**./network.sh createChannel -c testchannel**

hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~/fabric-samples/test-network\$ **sudo**  
**docker exec peer0.org1.example.com peer channel list**

2023-10-18 05:47:30.658 UTC 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer  
connections initialized

Channels peers has joined:

testchannel

hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~/fabric-samples/test-network\$ **sudo**  
**docker exec peer0.org2.example.com peer channel list**

2023-10-18 05:47:59.173 UTC 0001 INFO [channelCmd] InitCmdFactory -> Endorser and orderer  
connections initialized

Channels peers has joined:

testchannel

hduser32@itlab5sys28-HP-ProDesk-400-G7-Microtower-PC:~/fabric-samples/test-network\$ **sudo**  
**./network.sh down**

Using docker and docker-compose

Stopping network

Stopping cli ... done

Stopping peer0.org1.example.com ... done