>bash build\_chain.sh -l "127.0.0.1:4" -p 30300,20200,8545

1. 建立 output dir [fisco/nodes] (在build\_chain.sh 運行的目錄下)
2. 在取到<https://api.github.com/repos/FISCO-BCOS/FISCO-BCOS/releases> 相容的版本資料 (v2.0.1)
3. 根據操作系統 下載 相應版本的 fisco-bsco (tar.gz) 並解包
4. 產生 CA證書 (cert.cnf)

[ca]

default\_ca=default\_ca

[default\_ca]

default\_days = 365

default\_md = sha256

[req]

distinguished\_name = req\_distinguished\_name

req\_extensions = v3\_req

[req\_distinguished\_name]

countryName = CN

countryName\_default = CN

stateOrProvinceName = State or Province Name (full name)

stateOrProvinceName\_default =GuangDong

localityName = Locality Name (eg, city)

localityName\_default = ShenZhen

organizationalUnitName = Organizational Unit Name (eg, section)

organizationalUnitName\_default = fisco-bcos

commonName = Organizational commonName (eg, fisco-bcos)

commonName\_default = fisco-bcos

commonName\_max = 64

[ v3\_req ]

basicConstraints = CA:FALSE

keyUsage = nonRepudiation, digitalSignature, keyEncipherment

[ v4\_req ]

basicConstraints = CA:TRUE

# prepare CA

gen\_chain\_cert

gen\_agency\_cert

ca\_file="${output\_dir}/cert/ca.key"

1. 產生 Keys (Private Key)

對每一個 ip 每一個 node 產生

Agency.crt

Ca.crt

支持 國密 算法

gmnode.crt

SDK Keys: node.crt node.key

1. 產生配置檔案 config.ini

對每一個 ip 每一個 node 產生檔案

1. 清理fisco bsco 的下載 bin 檔案
2. 顯示執行的結果

[INFO] FISCO-BCOS Path : bin/fisco-bcos

[INFO] Start Port : 30300 20200 8545

[INFO] Server IP : 127.0.0.1:4

[INFO] State Type : storage

[INFO] RPC listen IP : 127.0.0.1

[INFO] Output Dir : /home/ubuntu16/fisco/nodes

[INFO] CA Key Path : /home/ubuntu16/fisco/nodes/cert/ca.key