Create Root certificate

openssl req -x509 -sha256 -newkey rsa:4096 -keyout server\_prv.pem -nodes -out MyRoot.pem -days 365

generate private key|certificate of Alice

openssl genrsa -out alice.key 2048

openssl req -new -key alice.key -out alice.csr

get it signed by the root CA

openssl x509 -req -days 365 -in alice.csr -CA MyRoot.crt -CAkey MyRoot\_prv.pem -set\_serial 02 -out alice.crt

Extract CA root public key

openssl x509 -pubkey -noout -in MyRoot.crt > MyRoot\_pub.pem