* Cài username, password mqtt

Cmd -> **Administrator**

cd c:\mosquitto

mosquitto\_passwd -c “C:\mosquitto\pass” linh99

sau đó nhập pass: 1234567890

Trong mosquitto.conf

|  |
| --- |
| #allow\_anonymous false  password\_file C:\mosquitto\pass |

net stop mosquitto

net start mosquitto

* Cài ssl, tls

[How to secure mosquitto on windows – BytesofGigabytes](https://bytesofgigabytes.com/mqtt/how-to-secure-mosquitto-on-windows/)

Download OpenSSL

<https://bytesofgigabytes.com/download/12459/>

Cmd -> **Administrator**

cd C:\OpenSSL\bin

Text

Description automatically generated

openssl genrsa -des3 -out mqtt\_ca.key 2048

openssl req -new -x509 -days 3650 -key mqtt\_ca.key -out mqtt\_ca.crt

Text

Description automatically generated

Localhost: là tên kết nối( có thể dùng tên miền, ip)

Common Name: 192.168.0.103 : địa chỉ ip mạng của pc

openssl genrsa -out mqtt\_client.key 2048

openssl req -new -out mqtt\_client.csr -key mqtt\_client.key

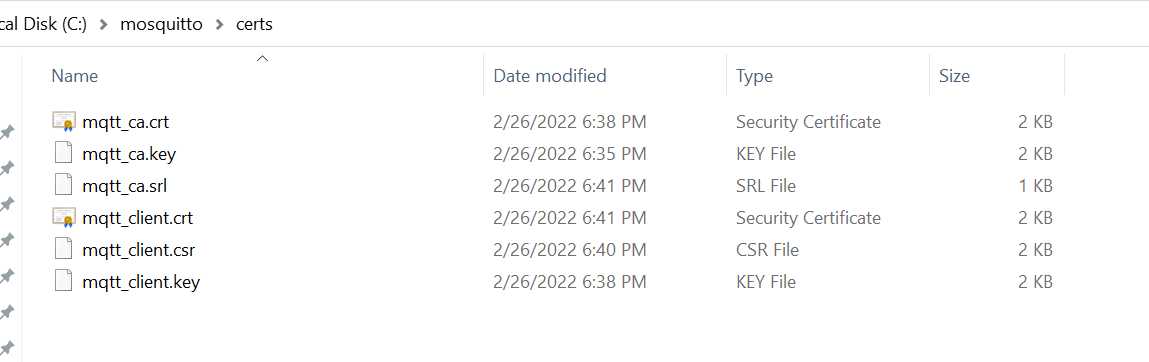
Text

Description automatically generated

openssl x509 -req -in mqtt\_client.csr -CA mqtt\_ca.crt -CAkey mqtt\_ca.key -CAcreateserial -out mqtt\_client.crt -days 3650

openssl verify -CAfile mqtt\_ca.crt mqtt\_client.crt

copy các file .crt, .key vào thư mục certs



Trong mosquitto.conf

|  |
| --- |
| listener 1883  protocol mqtt  allow\_anonymous true  require\_certificate false  cafile C:\mosquitto\certs\mqtt\_ca.crt  certfile C:\mosquitto\certs\mqtt\_client.crt  keyfile C:\mosquitto\certs\mqtt\_client.key  tls\_version tlsv1.2 |

Cd C:\mosquitto

net stop mosquitto

net start mosquitto

mosquitto -c mosquitto.conf -v

mosquitto\_pub --cafile C:\mosquitto\certs\mqtt\_ca.crt --cert C:\mosquitto\certs\mqtt\_client.crt --key C:\mosquitto\certs\mqtt\_client.key -d -h localhost -u linh99 -P 1234567890 -p 1883 -t testServo -m "hello there"

# UBUNTU

sudo apt update -y && sudo apt install mosquitto mosquitto-clients -y

sudo systemctl status mosquitto

sudo systemctl enable mosquitto

sudo mosquitto\_passwd -c /etc/mosquitto/passwd linh99

sudo nano /etc/mosquitto/conf.d/default.conf

sudo systemctl restart mosquitto

mkdir certs

cd certs

openssl genrsa -des3 -out mqtt\_ca.key 2048

openssl req -new -x509 -days 3650 -key mqtt\_ca.key -out mqtt\_ca.crt

openssl genrsa -out mqtt\_client.key 2048

openssl req -new -out mqtt\_client.csr -key mqtt\_client.key

openssl x509 -req -in mqtt\_client.csr -CA mqtt\_ca.crt -CAkey mqtt\_ca.key -CAcreateserial -out mqtt\_client.crt -days 3650

openssl verify -CAfile mqtt\_ca.crt mqtt\_client.crt

sudo nano /etc/mosquitto/conf.d/default.conf

|  |
| --- |
| password\_file /etc/mosquitto/passwd  listener 1883  protocol mqtt  allow\_anonymous true  require\_certificate false  cafile /home/mqtt/certs/mqtt\_ca.crt  certfile /home/mqtt/certs/mqtt\_client.crt  keyfile /home/mqtt/certs/mqtt\_client.key  tls\_version tlsv1.2 |