

HW2 SIOT

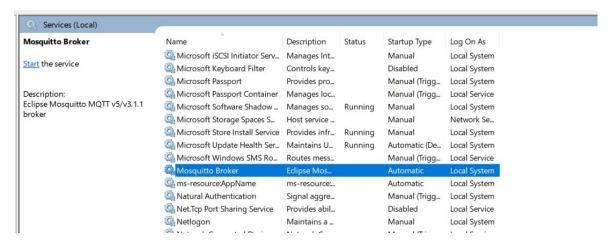
MOHAMMAD GHAFOURIANAHAHASSANPOUR

STUDENT NUMBER: 99106493

DR SIAVASH AHMADI

First we install the mosquitto

First mosquitto isnt started so we start mosquitto by command below



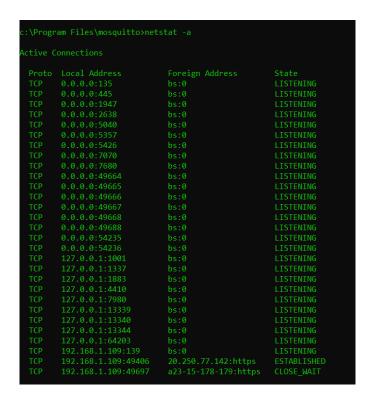
First we have to run cmd with run as adminstator then you can see what we should do:

```
C:\WINDOWS\system32>cd "c:\Program Files\mosquitto
c:\Program Files\mosquitto>net start mosquitto
The Mosquitto Broker service was started successfully.
```

We can see in services brooker is running

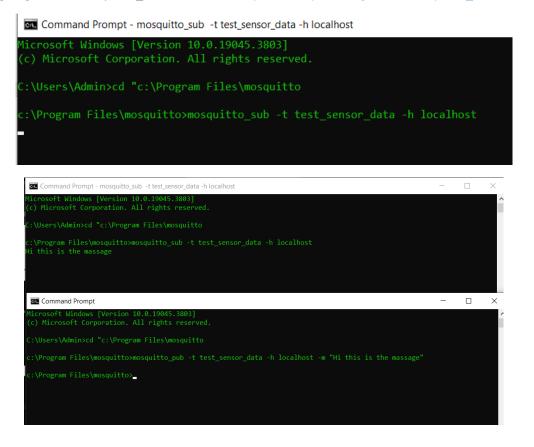


To verify that the investigator service is running we execute the netstat command:



Now we are going to start testing:

We are going to use mosquitto_sub command (https://mosquitto.org/man/mosquitto_sub-1.html)



Aut

```
Microsoft Windows [Version 10.0.19045.3801]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>cd C:\Program Files\mosquitto

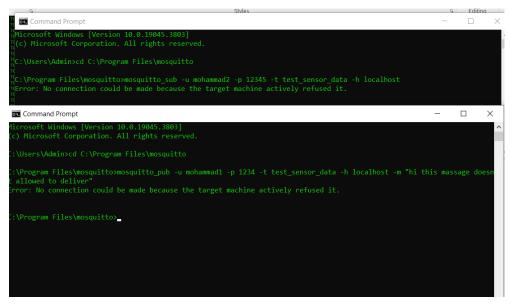
C:\Program Files\mosquitto>net start mosquitto

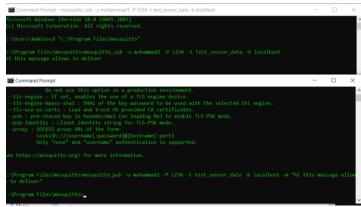
The Mosquitto Broker service was started successfully.

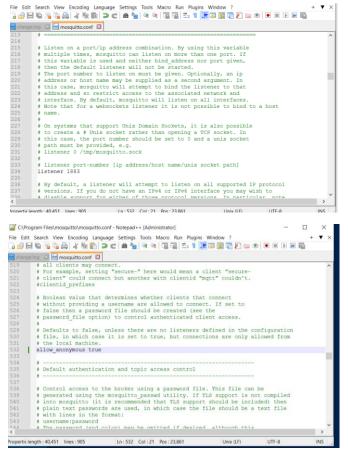
C:\Program Files\mosquitto>mosquitto_passwd -c .\pass mohammad1

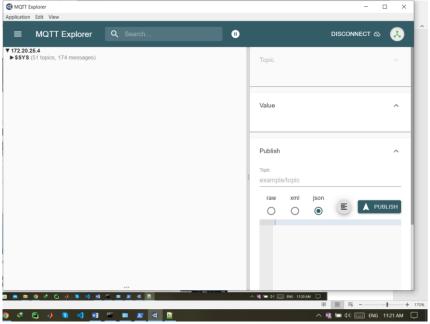
@essord:
Reenter password:

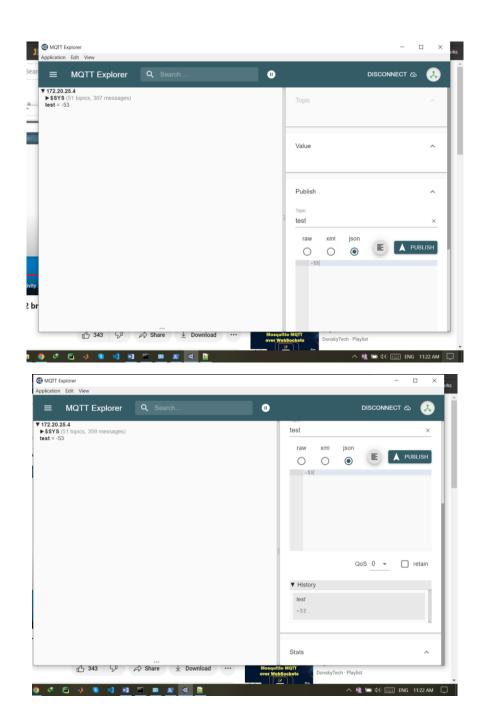
C:\Program Files\mosquitto>
```

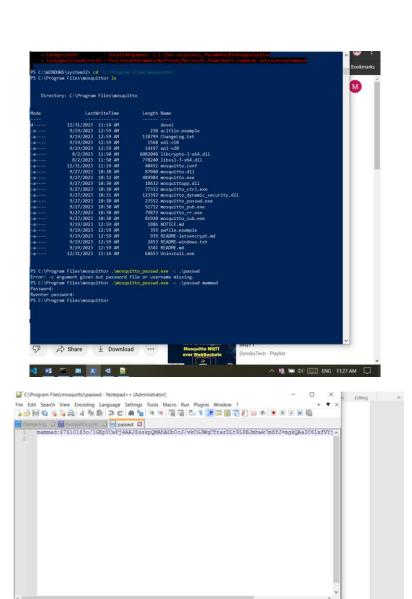












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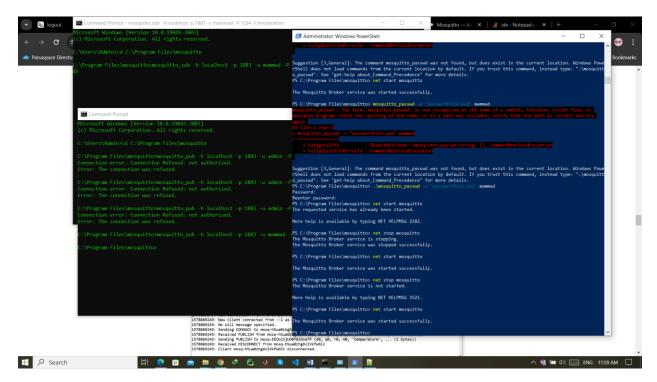
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Unix (LF)

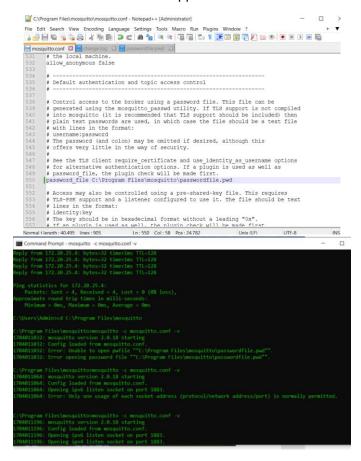
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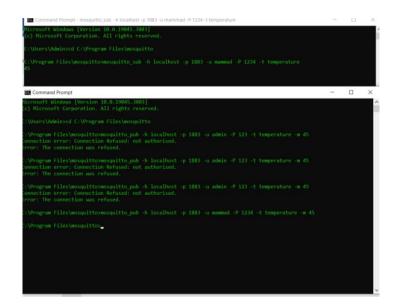
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Error happens so:



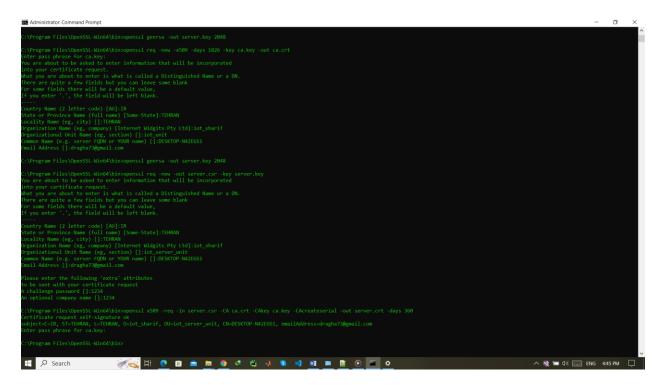


TSL:

First we install open ssl

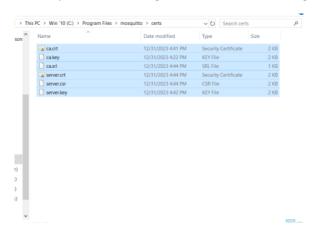
```
    ■ Administrator. Command Prompt
    Wicrosoft Windows [Version 18.0.19045_3803]
(c) Microsoft Corporation, All rights reserved.

C:\Mirgooth Corporation, All ri
```

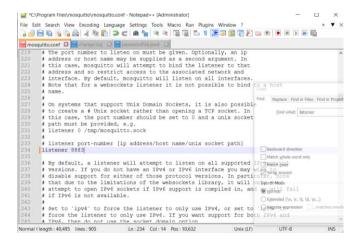


Transfer

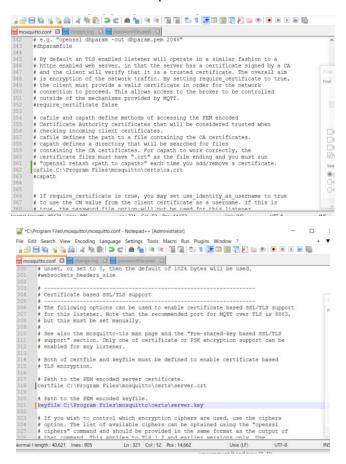
We transfer certificates file to mosquitto\certs and give this address to config



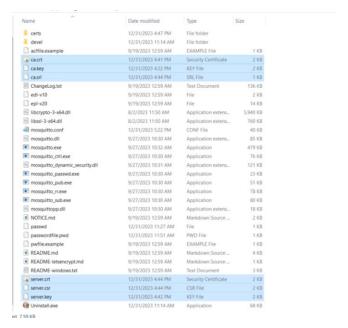
We change port to 8883 to test this in different port(other than 1883)



We define cafile C:\Program Files\mosquitto\certs\ca.crt, certfile C:\Program Files\mosquitto\certs\server.key in mosquito.conf

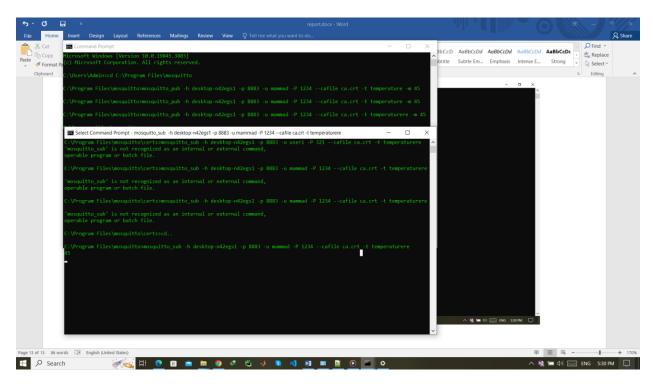


And due to this fact our mosquito_sub command is in mosquitto file we have to have a copy of certificate in mosquitto file (especially ca.crt others are ptional)



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Administrator Command Prompt: morpation < morpation of morpation of morpation of morpation of morpation of the Command Prompt: morpa
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Two first commands because the topic is different

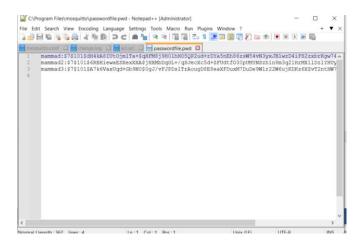


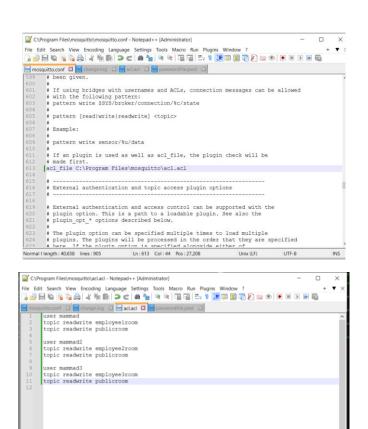
Acl:

Mammad ->1234

Mammad2->12345

Mammad3->1234





For first massage (45) I didn't save the config file so in the second pub we get the answer then I published with "mammad2" and I didn't receive so I expected then I tried to publish in publicroom then I recognized I defined "topic read public room" then I changed that to "readwrite" after that I published in publicroom and I received the massage in public room

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