M015 Uf1 IoT

MQTT per QT - versió 1

Curs: 2019-20

CFGS: DAM2

Alumne : Arnau Subirós Puigarnau

Data :   18-01-2020

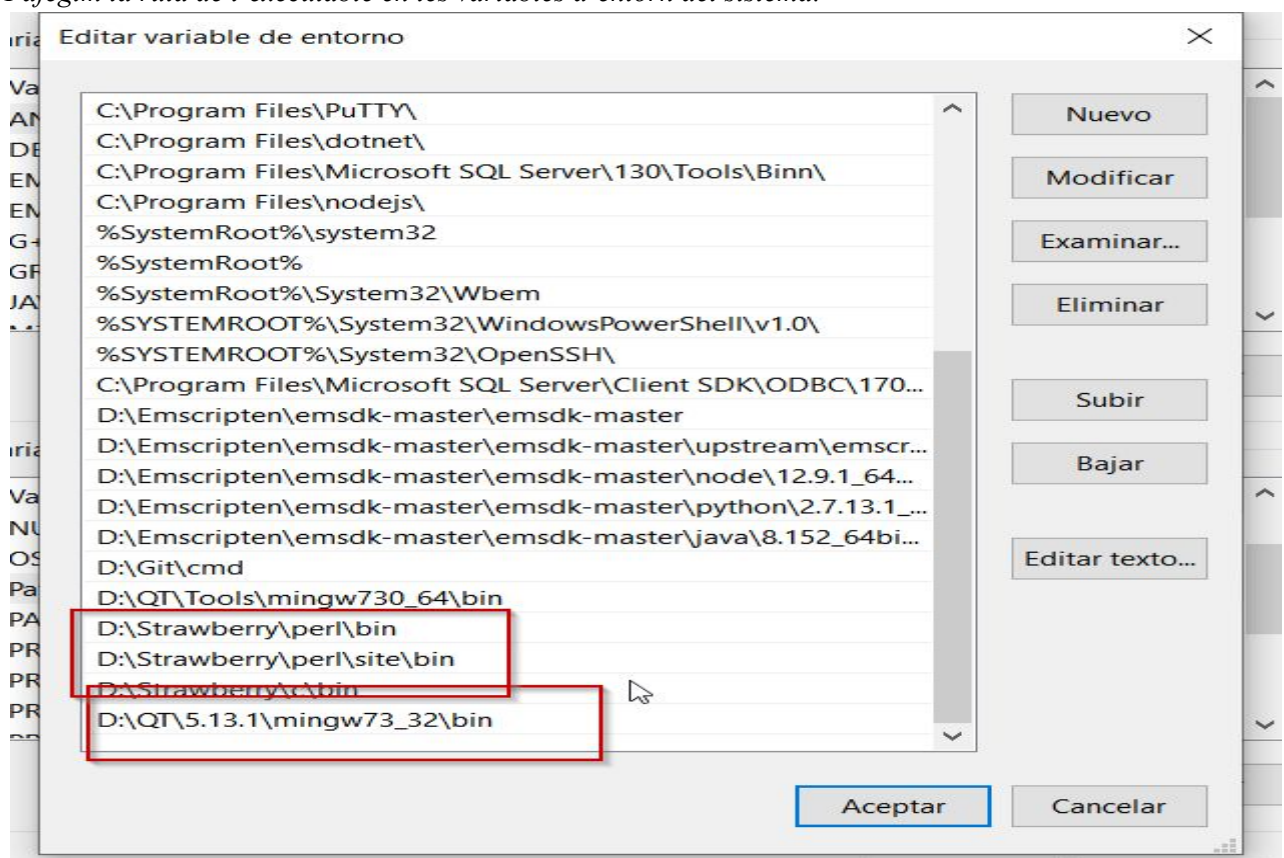| Nom i Cognoms	Data
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Configuració MQTT per QT (per Windows)

NOTA: per Windows: necessitarem instal·lar Strawberry Perl

- http://strawberryperl.com/
- *I afegim la ruta de l'executable en les variables d'entorn del sistema.*

- *Utilitzarem el terminal de QT (MinGW 7.3.0 de 32 bits) ja que 64 bits ens va dona errors.*

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- Clonem el repositori qtmqtt.git

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Seleccionar Qt 5.13.1 (MinGW 7.3.0 32-bit)

```
C:\Users\arnau\qtmqtt\build>git clone git://code.qt.io/qt/qtmqtt.git
Cloning into 'qtmqtt'...
remote: Counting objects: 2705, done.
remote: Compressing objects: 100% (1806/1806), done.
Receiving objects:  97% (2624/2705)used 1365 (delta 870)Receiving objects:  95% (2570/2705)
Receiving objects: 100% (2705/2705), 575.63 KiB | 1.33 MiB/s, done.
Resolving deltas: 100% (1719/1719), done.
Updating files: 100% (131/131), done.

C:\Users\arnau\qtmqtt\build>cd qtmqtt2
El sistema no puede encontrar la ruta especificada.

C:\Users\arnau\qtmqtt\build>cd qtmqtt

C:\Users\arnau\qtmqtt\build\qtmqtt>mkdir build

C:\Users\arnau\qtmqtt\build\qtmqtt>cd build

C:\Users\arnau\qtmqtt\build\qtmqtt\build>D:\QT\5.13.1\mingw73_32\bin\qmake -r ..
Info: creating stash file C:\Users\arnau\qtmqtt\build\qtmqtt\build\.qmake.stash
Info: creating cache file C:\Users\arnau\qtmqtt\build\qtmqtt\build\.qmake.cache
Reading C:/Users/arnau/qtmqtt/build/qtmqtt/src/src.pro [C:/Users/arnau/qtmqtt/build/qtmqtt/build/src]
 Reading C:/Users/arnau/qtmqtt/build/qtmqtt/src/mqtt/mqtt.pro [C:/Users/arnau/qtmqtt/build/qtmqtt/build/src/mqtt]
Project MESSAGE: perl -w D:\QT\5.13.1\mingw73_32\bin\syncqt.pl -module QtMqtt -version 5.15.0 -outdir C:/Users/arnau
rnau/qtmqtt/build C:/Users/arnau/qtmqtt/build/qtmqtt
<srcbase> = C:/Users/arnau/qtmqtt/build/qtmqtt
<bldbase> = C:/Users/arnau/qtmqtt/build/qtmqtt/build
<outbase> = C:/Users/arnau/qtmqtt/build/qtmqtt/build
              [7] !cp winequality.csv gdrive/Mv\ Drive/MisColabs/data
```

Qt 5.13.1 (MinGW 7.3.0 32-bit)

```
rograma o archivo por lotes ejecutable.

:\Users\arnau\qtmqtt\build\qtmqtt\build>mingw32-make install
d src\ && ( if not exist Makefile D:\QT\5.13.1\mingw73_32\bin\qmake.exe -o Makefile C:\Users\arnau\qtmqtt\build\qtmqtt\src\src.pro ) && mingw32-make -f Makefile in
ingw32-make[1]: Entering directory 'C:/Users/arnau/qtmqtt/build/qtmqtt/build/src'
d mqtt\ && ( if not exist Makefile D:\QT\5.13.1\mingw73_32\bin\qmake.exe -o Makefile C:\Users\arnau\qtmqtt\build\qtmqtt\src\mqtt\mqtt.pro ) && mingw32-make -f Make
all
ingw32-make[2]: Entering directory 'C:/Users/arnau/qtmqtt/build/qtmqtt/build/src/mqtt'
ingw32-make -f Makefile.Release install
ingw32-make[3]: Entering directory 'C:/Users/arnau/qtmqtt/build/qtmqtt/build/src/mqtt'
++ -c -fno-keep-inline-dllexport -msse2 -mstackrealign -mfpmath=sse -O2 -std=c++1z -fno-exceptions -Wall -W -Wextra -Wvla -Wdate-time -Wshift-overflow=2 -Wduplicat
Wno-stringop-overflow -DUNICODE -D_UNICODE -DWIN32 -DMINGW_HAS_SECURE_API=1 -DWINVER=0x0601 -D_WIN32_WINNT=0x0601 -DQT_NO_FOREACH -DQT_NO_JAVA_STYLE_ITERATORS -DQT
D_LIST -DQT_NO_NARROWING_CONVERSIONS_IN_CONNECT -DQT_BUILD_MQTT_LIB -DQT_BUILDING_QT -D_CRT_SECURE_NO_WARNINGS -D_USE_MATH_DEFINES -DQT_NO_CAST_TO_ASCII -DQT_ASCII
NINGS -DQT_MOC_COMPAT -DQT_USE_QSTRINGBUILDER -DQT_DEPRECATED_WARNINGS -DQT_DISABLE_DEPRECATED_BEFORE=0x040800 -DQT_NO_EXCEPTIONS -DQT_NO_DEBUG -DQT_NETWORK_LIB -D
LIB -IC:\Users\arnau\qtmqtt\build\qtmqtt\src\mqtt -I. -I..\..\include -I..\..\include\QtMqtt -I..\..\include\QtMqtt\5.15.0 -I..\..\include\QtMqtt\5.15.0\QtMqtt -Itm
```
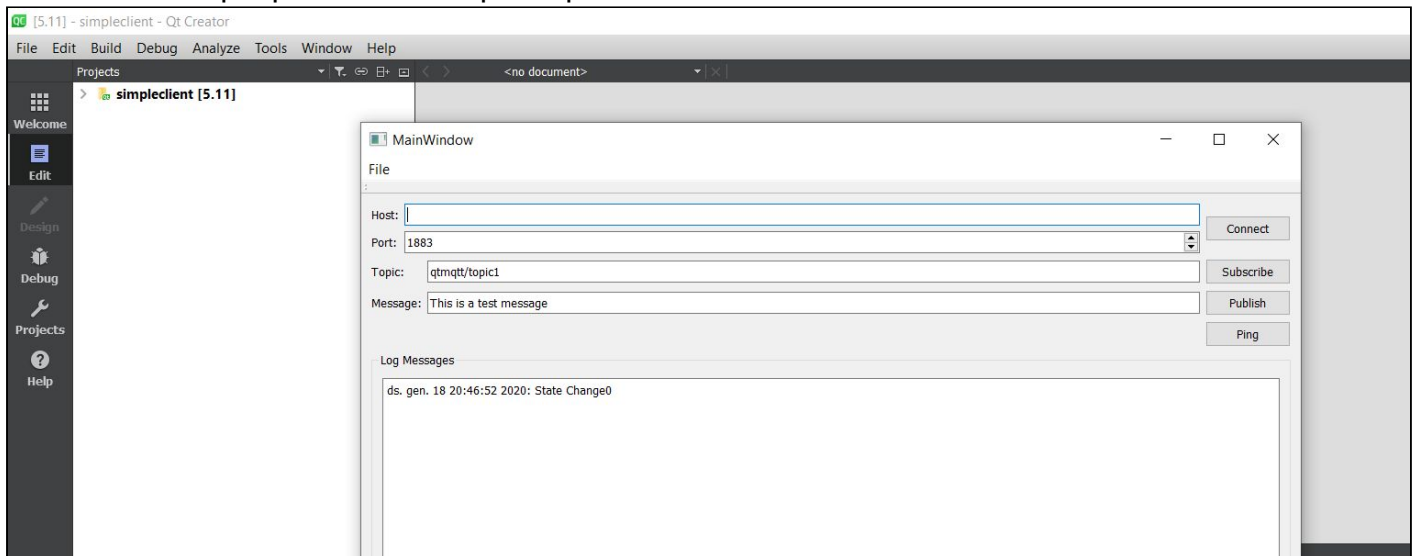
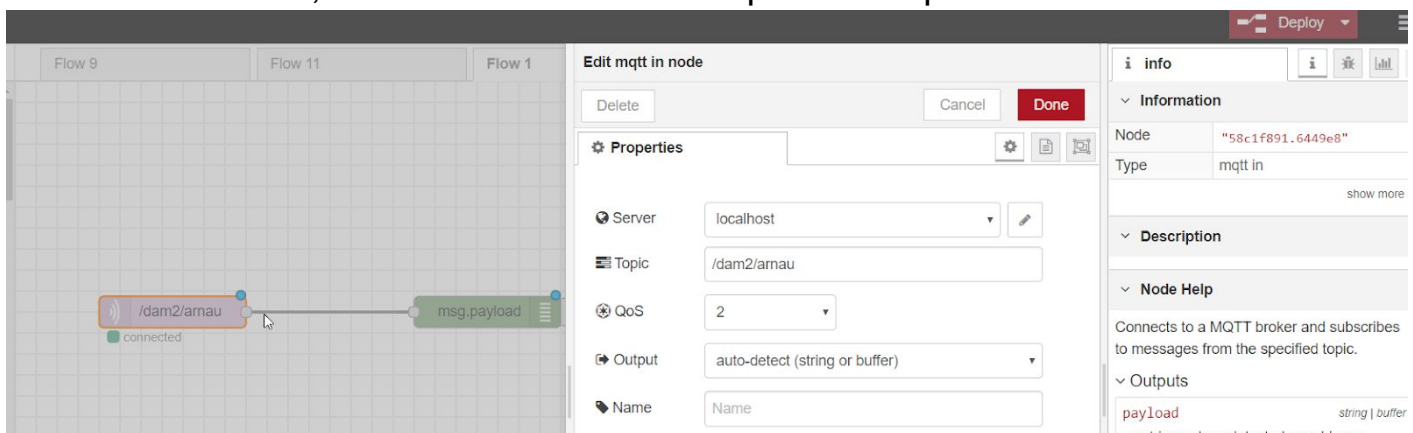| Nom i Cognoms	Data
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Obrim un exemple per confirmar que el protocol MQTT funciona en les QT

NODE-RED

Iniciem Node-Red , utilitzarem un flux senzill per fer les proves

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