

LABORATORY EXPERIMENT #25

Edge computing Node-RED – MQTT CSV backend



INTERNET OF THE THINGS

SOFTWARE DEVELOPMENT

PONCE DUARTE JOSE DE JESUS

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1 OBJECTIVE

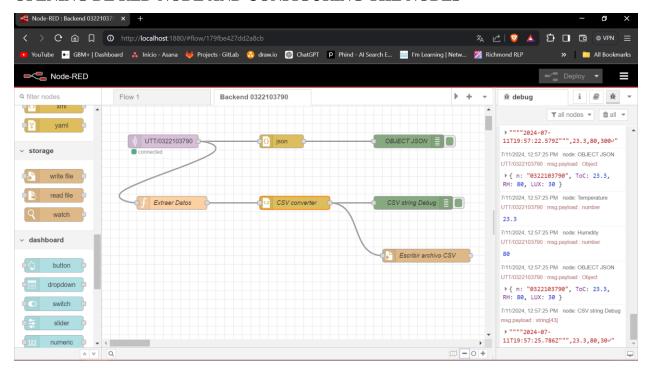
We will do a server on Red-Node and connect to a broker MQTT for receive messages.

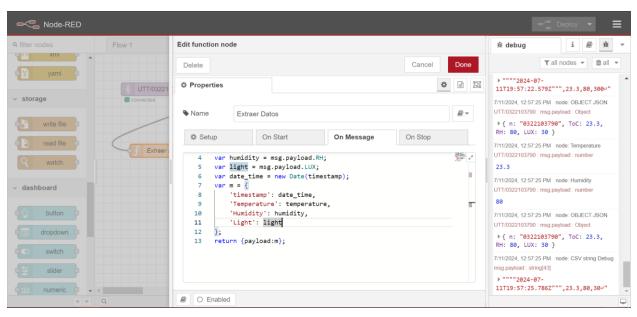
2 DEVELOPMENT

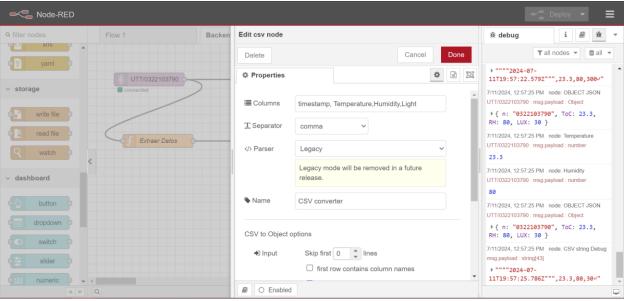
3 (GAUGE AND HIGHCHARTS RED NODE) (Jua22)

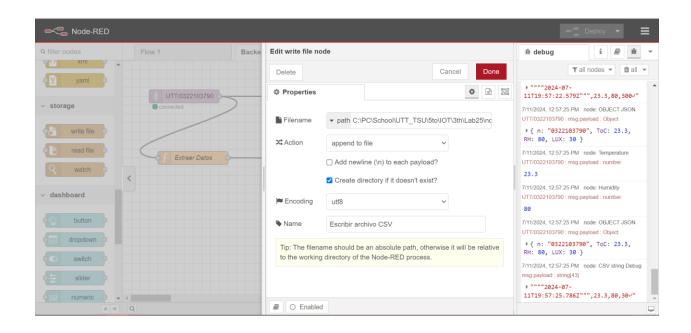
3.1 STARTING THE SERVER

3.2 OPENING DE RED-NODE AND CONFIGURING THE NODES





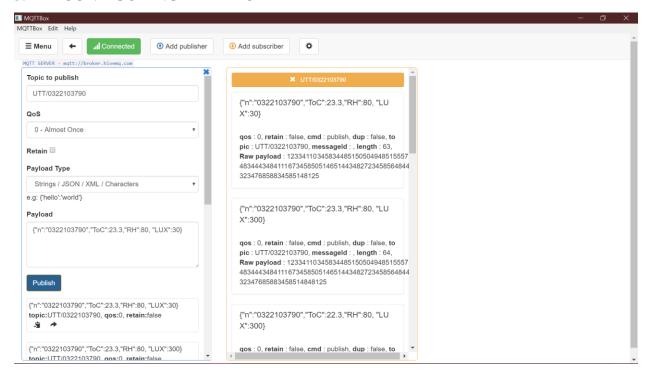




3.3 Getting values on the csv file

■ node_032210370.csv ×									
3th > Lab25 > ■ node_032210370.csv									
×	Α	В	С	D					
1	timestamp	Temperat	Humid	Light					
2	"2024-07-11T19:51:32.236Z"								
3	"2024-07-11T19:51:35.711Z"								
4	"2024-07-11T19:51:36.908Z"								
5	timestamp	Temperature	Humidity	Light					
6	"2024-07-11T19:57:14.944Z"	22.3	80	300					
7	"2024-07-11T19:57:16.865Z"	22.3	80	300					
8	"2024-07-11T19:57:17.490Z"	22.3	80	300					
9	"2024-07-11T19:57:22.579Z"	23.3	80	300					
10	"2024-07-11T19:57:25.786Z"	23.3	80	30					

3.4 CONFIGURING THE BROKER



4 CONCLUSION / COMENTARY

With this, we learned how to implement another way to show and save all the values on a plane text csv.