SESIÓN VIII

MAKERS

TEMAS DE AVANCE

- Udibots.
- Monitoreando la temperatura y humedad.
- Encendiendo un led.

UBIDOTS

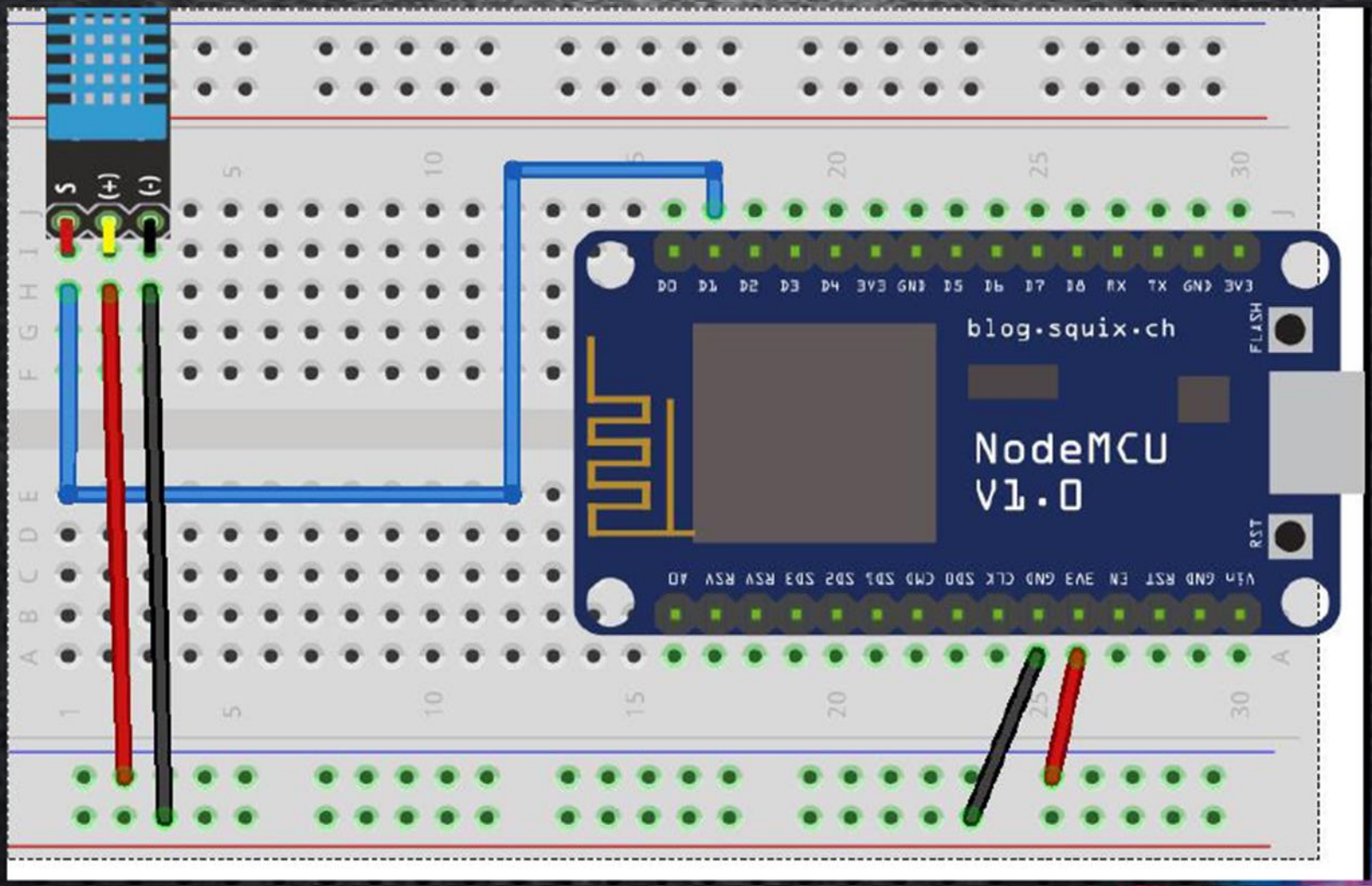
Es un servicio en la nube que te permite almacenar datos de sensores y visualizarlos en tiempo real a través de una página web.

Su pagina principal es :

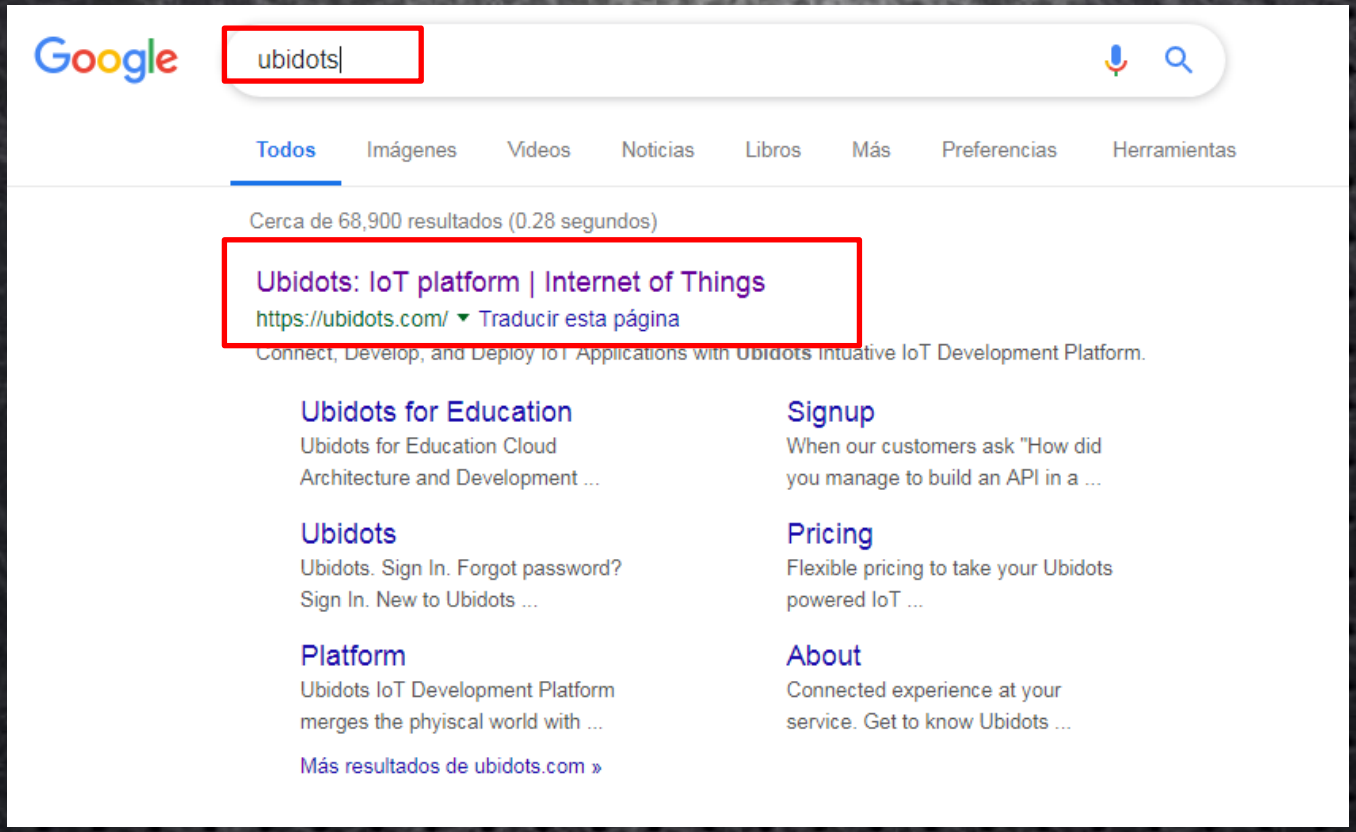
https://ubidots.com/

MONITOREANDO LA TEMPERATURA Y HUMEDAD

ESQUEMA


S
(+)
(-)
D0 D1 D2 D3 D4 3V3 GND D5 D6 D7 D8 RX TX GND 3V3
blog.squix.ch
FLASH
NodeMCU
V1.0
RST
A0 RSV RSV SD3 SD2 SD1 CMD SD0 CLK GND 3V3 EN RST GND Vin

EJERCICIO I - UBIDOTS



Ubidots

The MAKERS INFORMATICA

EJERCICIO I - UBIDOTS

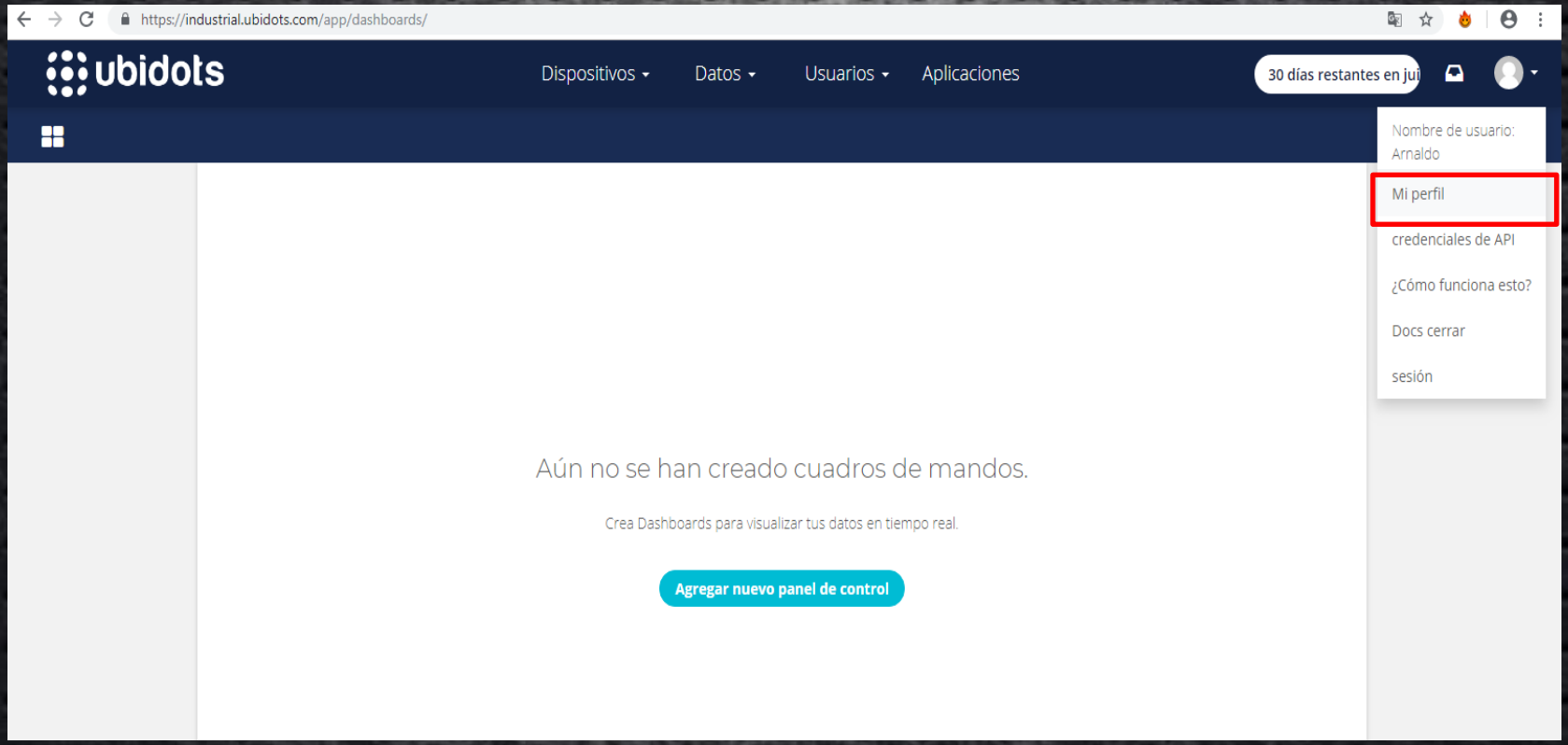
Página principal - Ubidots

The MAKERS INFORMATICA

EJERCICIO I - UBIDOTS

Registro - Ubidots

EJERCICIO I - UBIDOTS



Mi perfil- Ubidots

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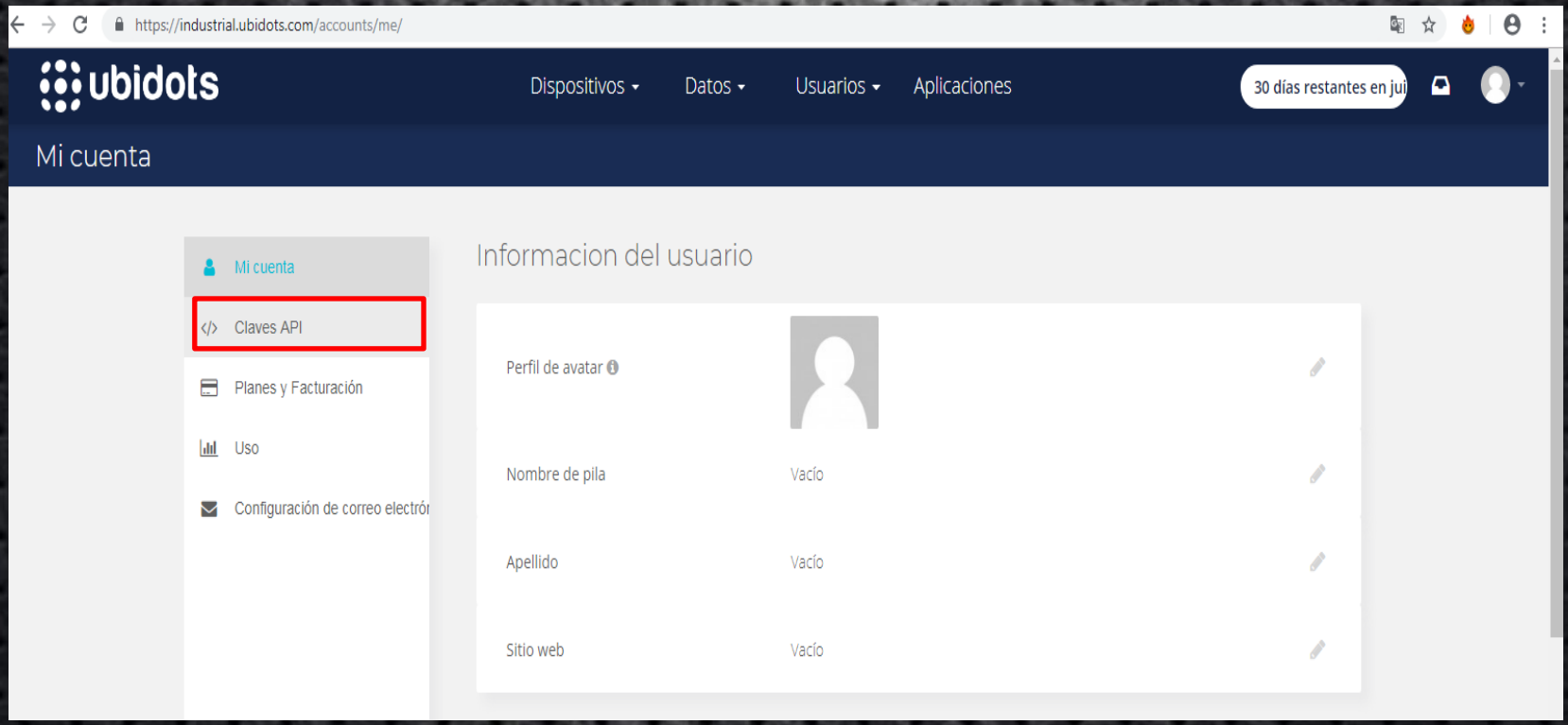
EJERCICIO I - UBIDOTS



Claves API- Ubidots

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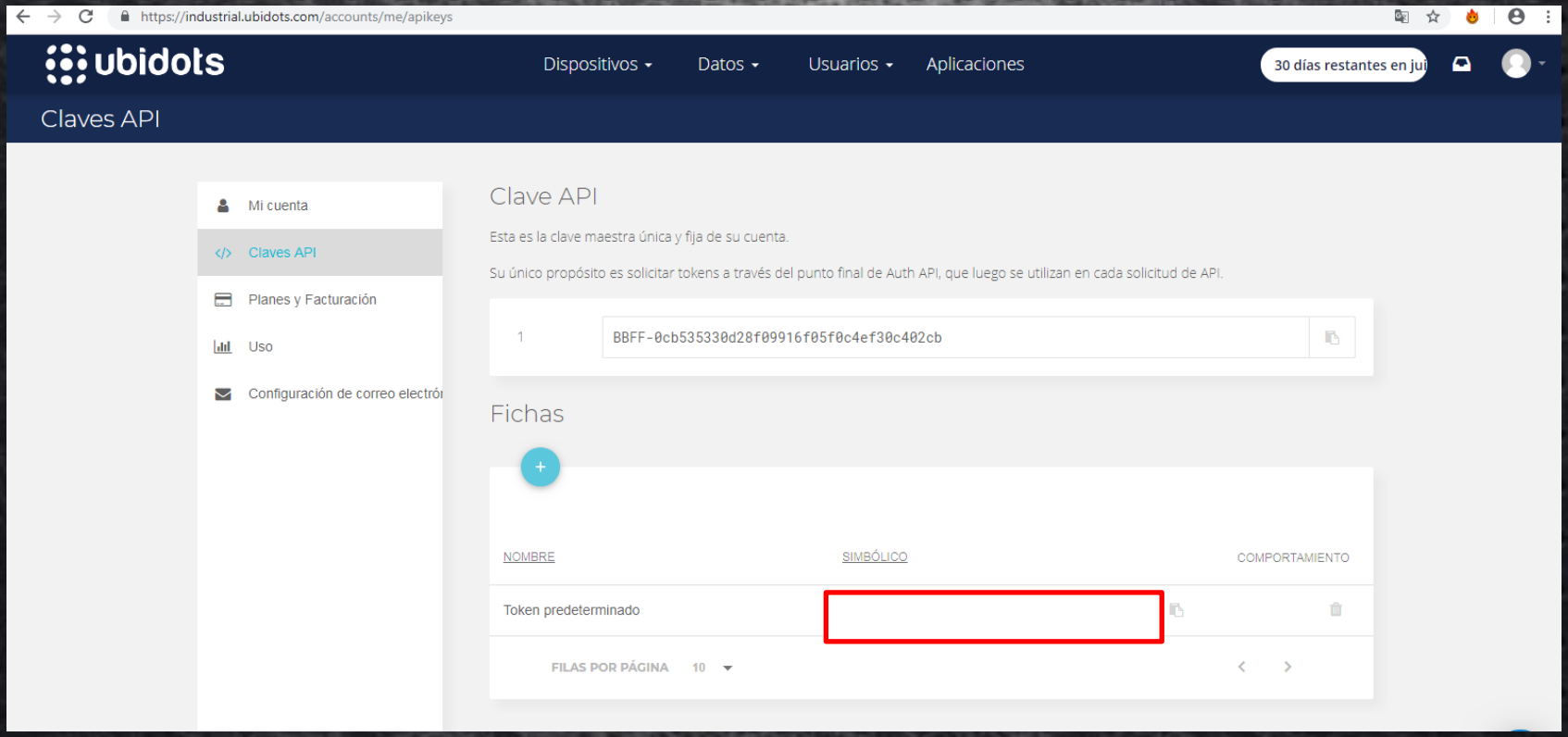
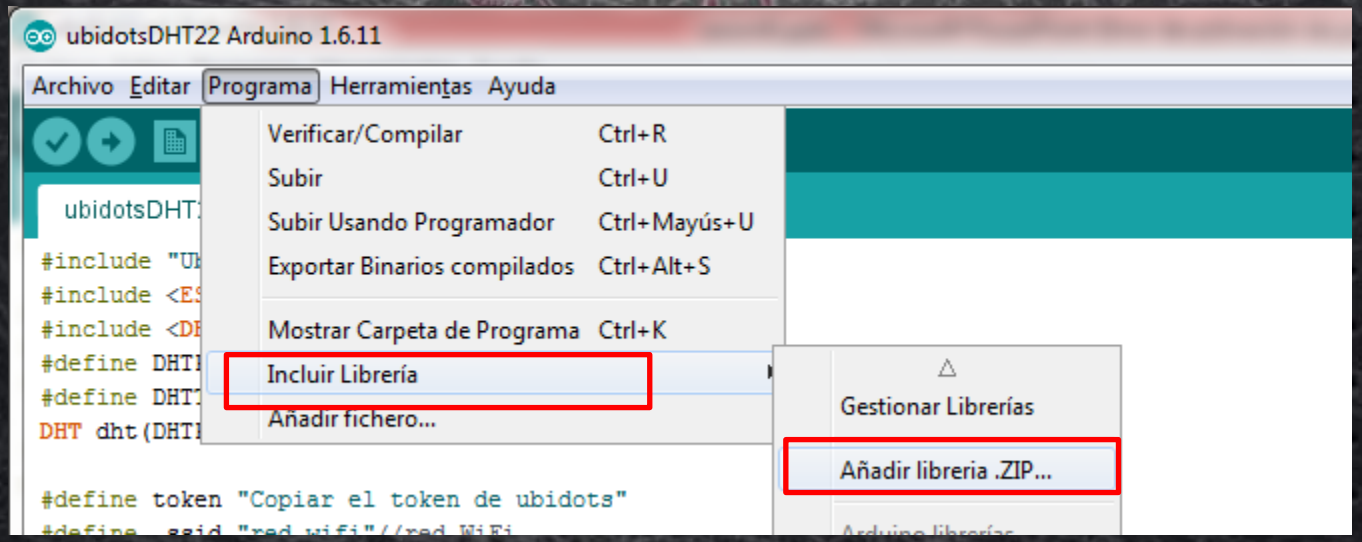
EJERCICIO I - UBIDOTS



Token predeterminado - Ubidots

EJERCICIO I - UBIDOTS

Abrir el sketch.ino (ubidotsDHT22) e incluir la librería.zip de ubidots.



Reiniciar el IDE Arduino.

EJERCICIO I - UBIDOTS

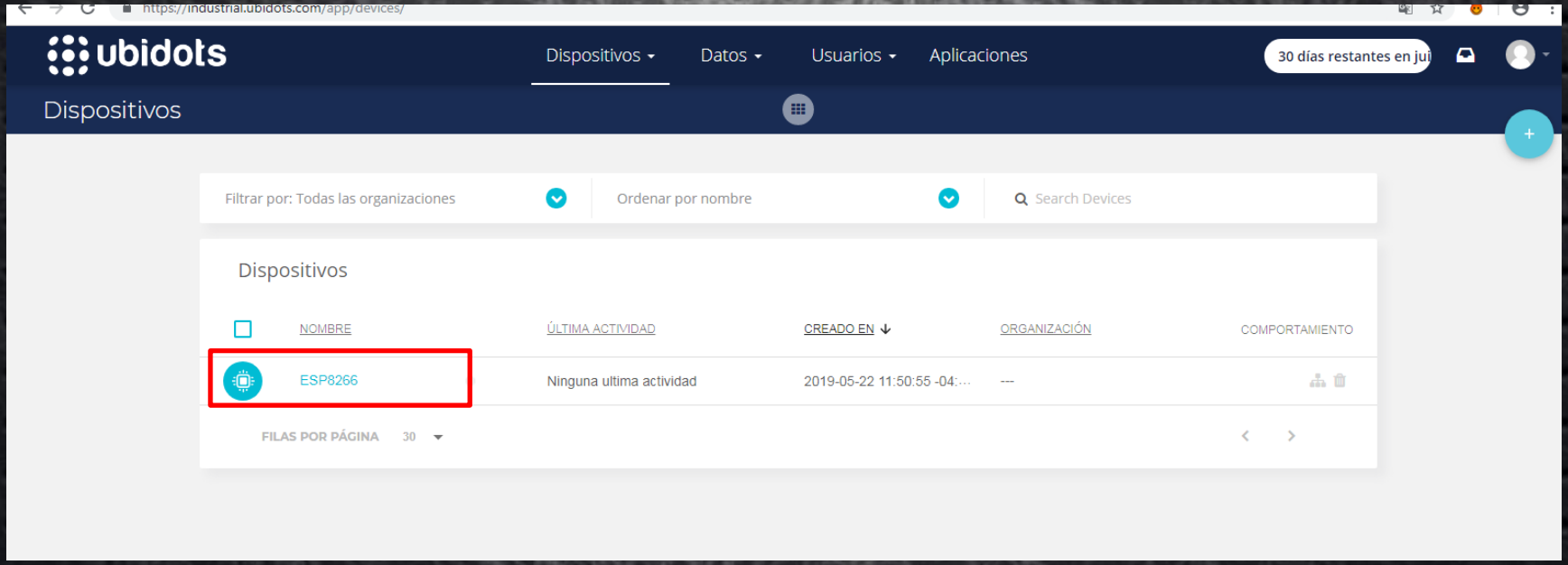
Copiar el **token predeterminado** de **ubidots** a la variable token del **sketch.ino. Conectarse a una red WiFi (SSID Y PASS).**

```
#include "UbidotsMicroESP8266.h";
#include <ESP8266WiFi.h>
#include <DHT.h>
#define DHTPIN D1 //pin donde conectamos el sensor
#define DHTTYPE DHT22 // iniciamos el dht11
DHT dht(DHTPIN, DHTTYPE);

#define token "Copiar el token de ubidots"
#define  ssid "red wifi"//red WiFi
#define pass "clave de la red WiFi"//contraseña de la

Ubidots client(token);
```

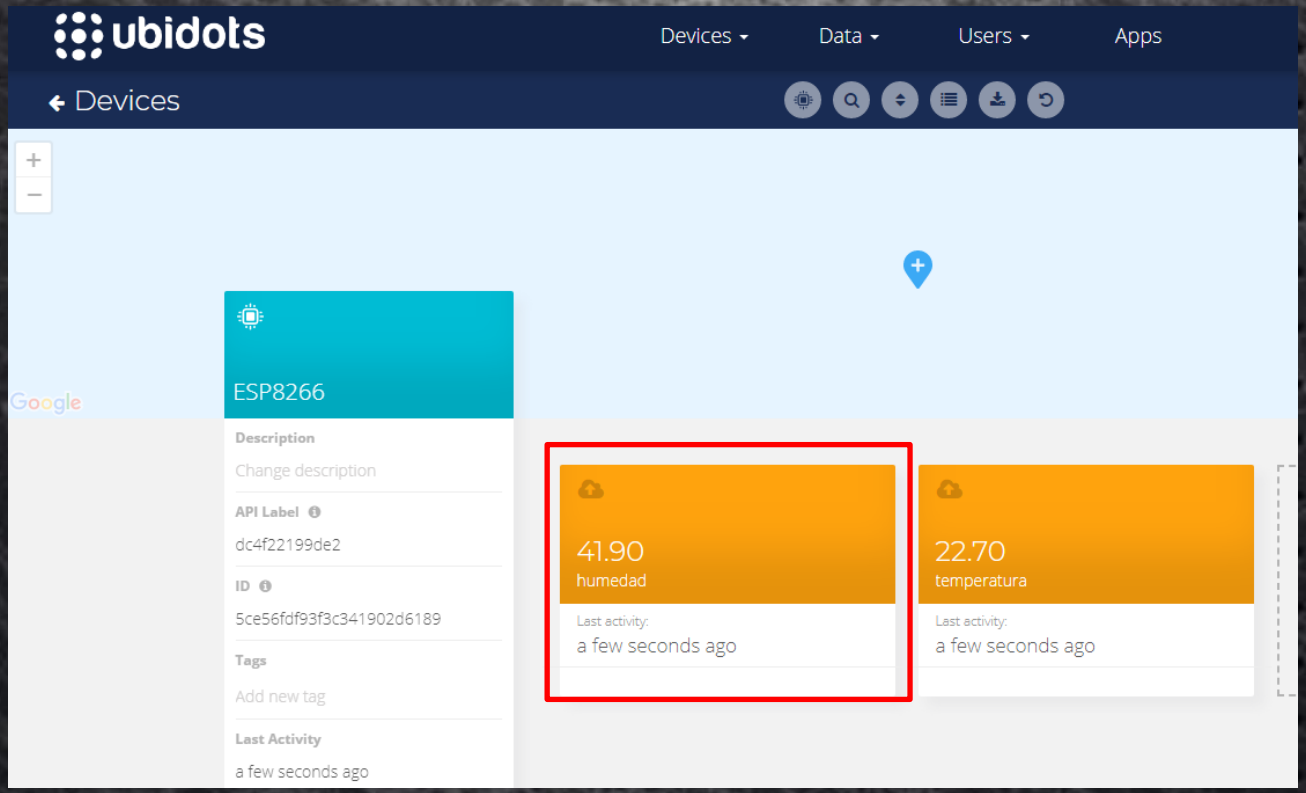
EJERCICIO I - UBIDOTS



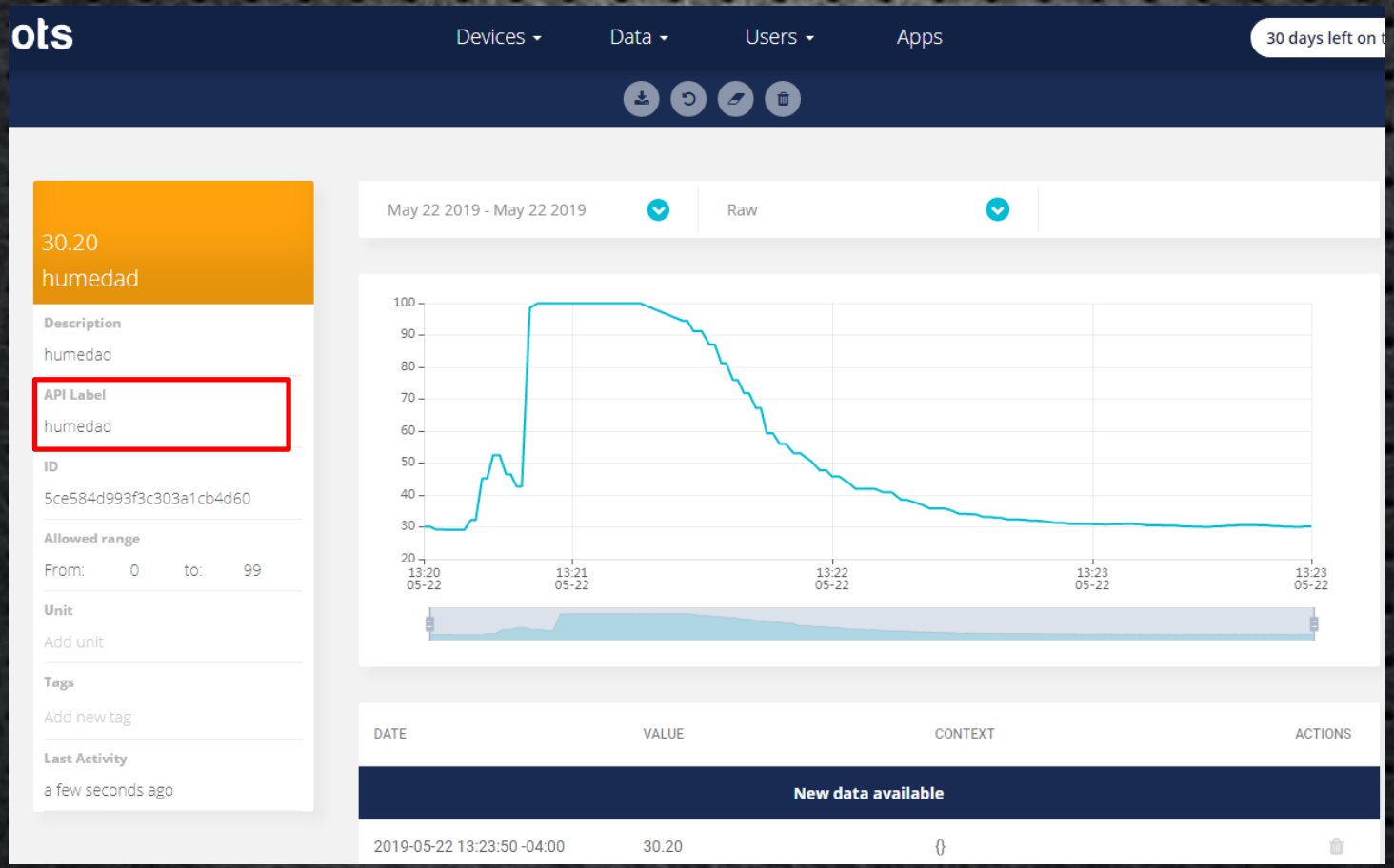
Dispositivos - Ubidots

The MAKERS INFORMATICA

EJERCICIO I - UBIDOTS



EJERCICIO I - UBIDOTS



API Label

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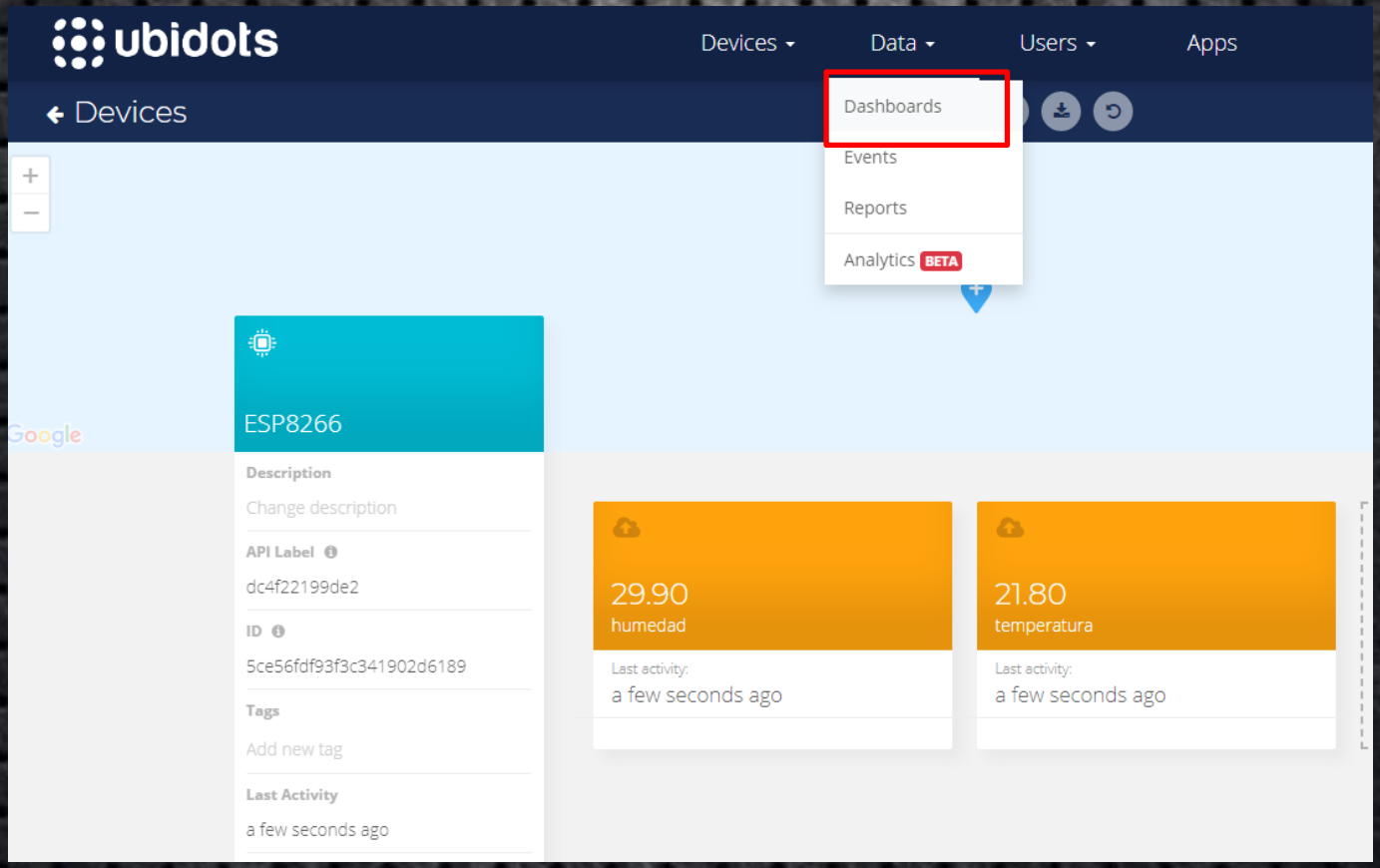
EJERCICIO I - UBIDOTS



Data - Dashboards- Ubidots

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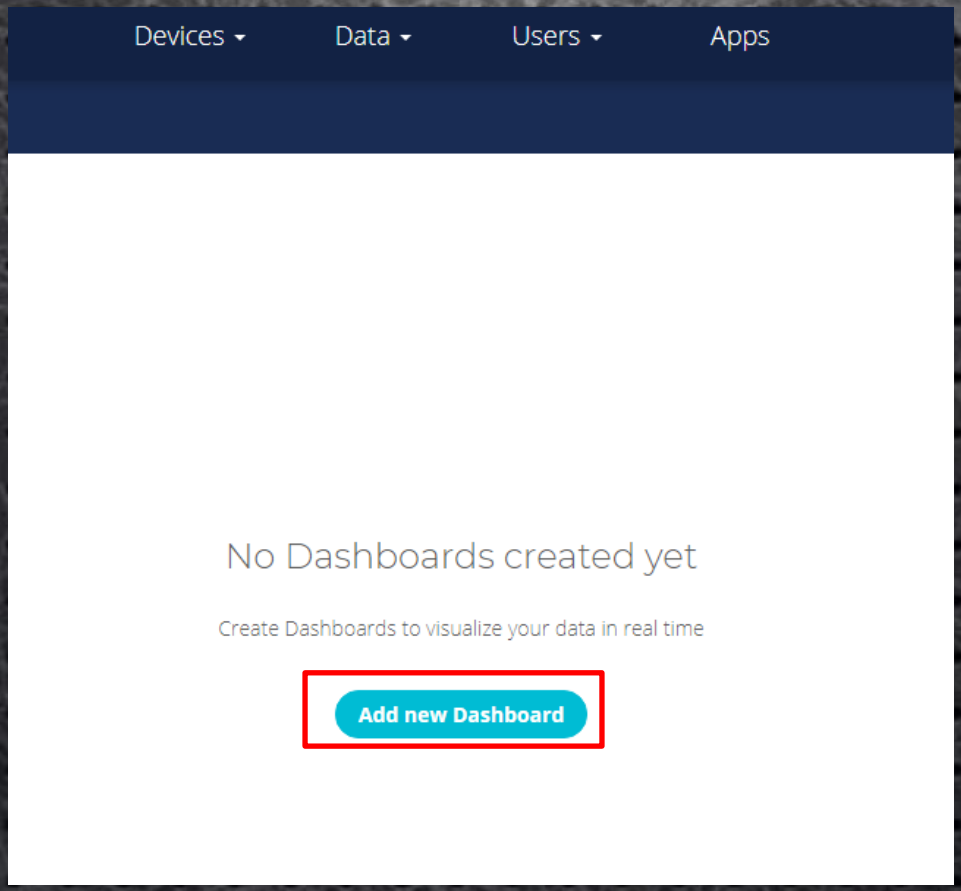
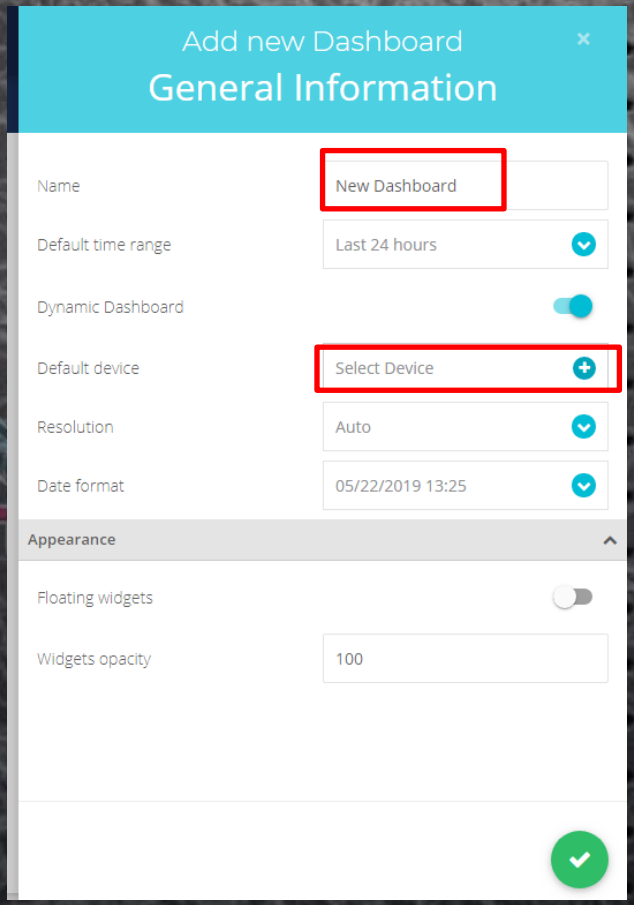
EJERCICIO I - UBIDOTS



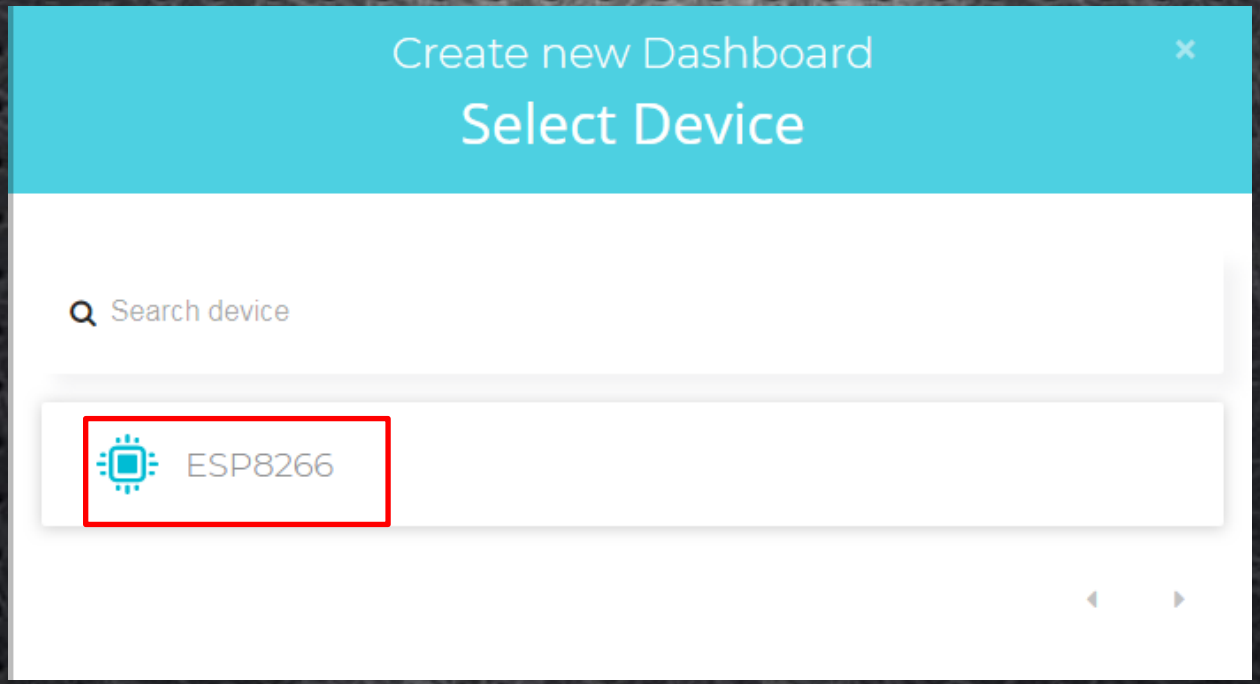
Add new Dashboards - Ubidots

EJERCICIO I - UBIDOTS



Name, Default device - Ubidots

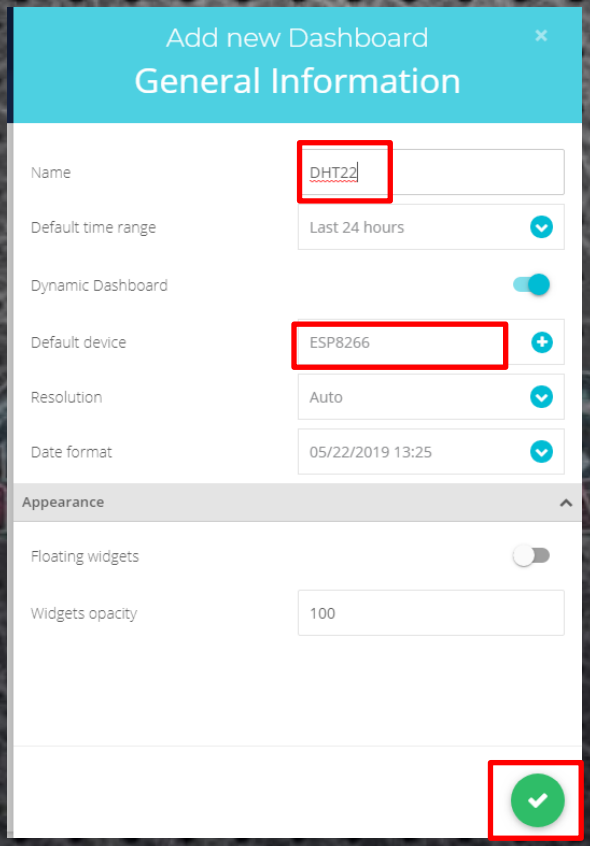
EJERCICIO I - UBIDOTS



ESP8266- Ubidots

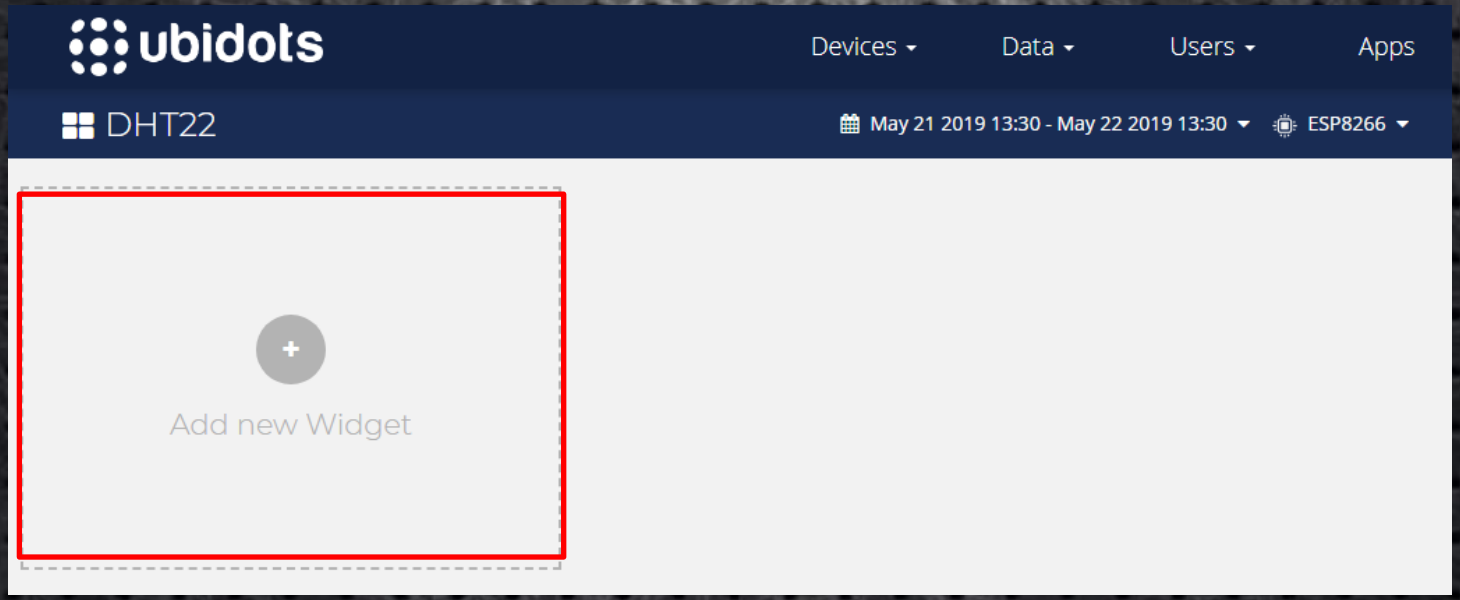
The MAKERS INFORMATICA

EJERCICIO I - UBIDOTS



Name, Dafaul device - Ubidots

EJERCICIO I - UBIDOTS



DASHBOARD - Ubidots

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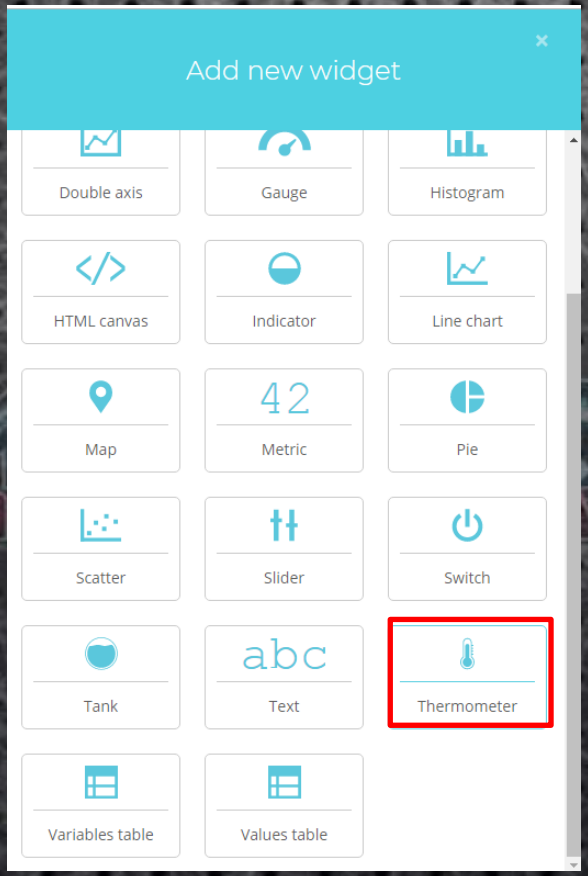
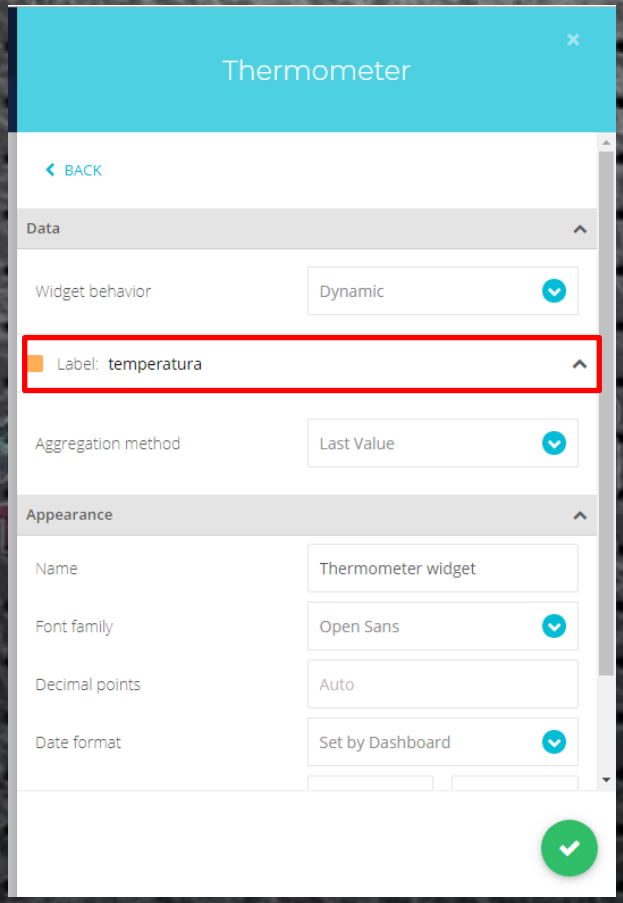
EJERCICIO I - UBIDOTS



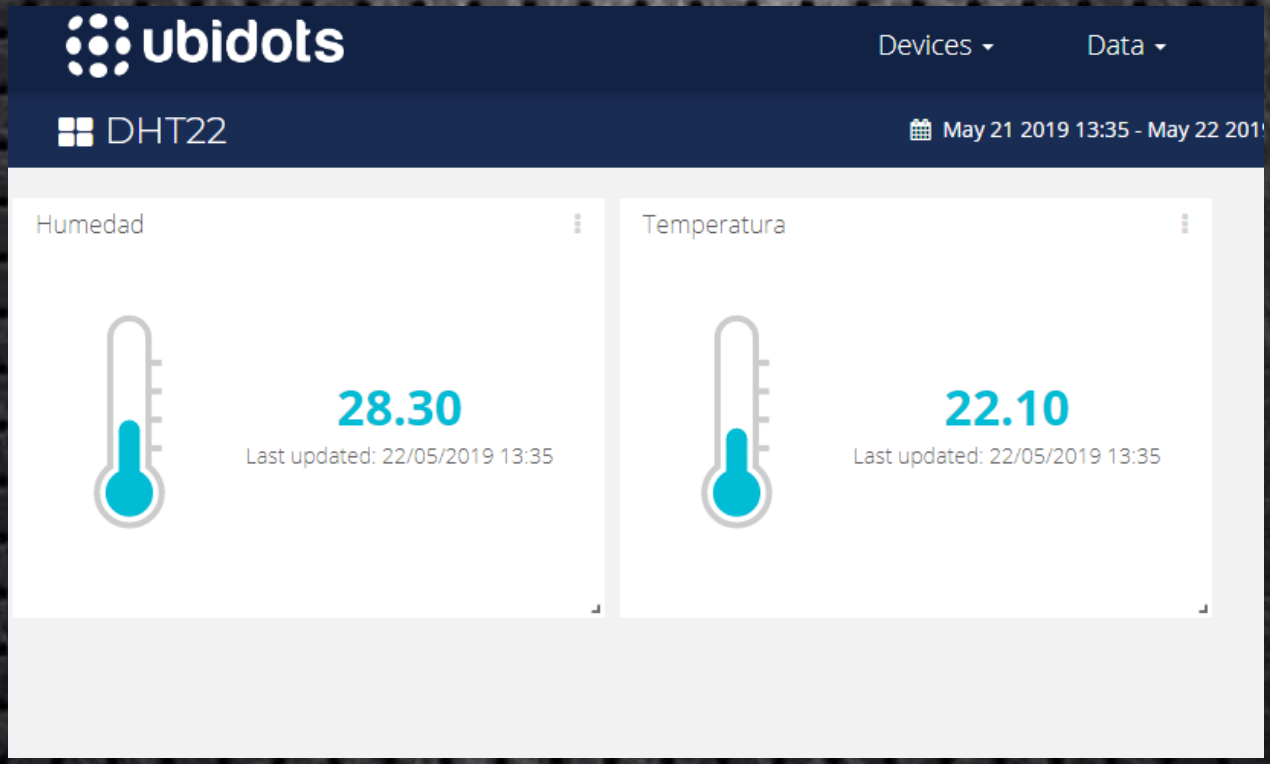
Thermometer - Ubidots

EJERCICIO I - UBIDOTS



Label - Ubidots

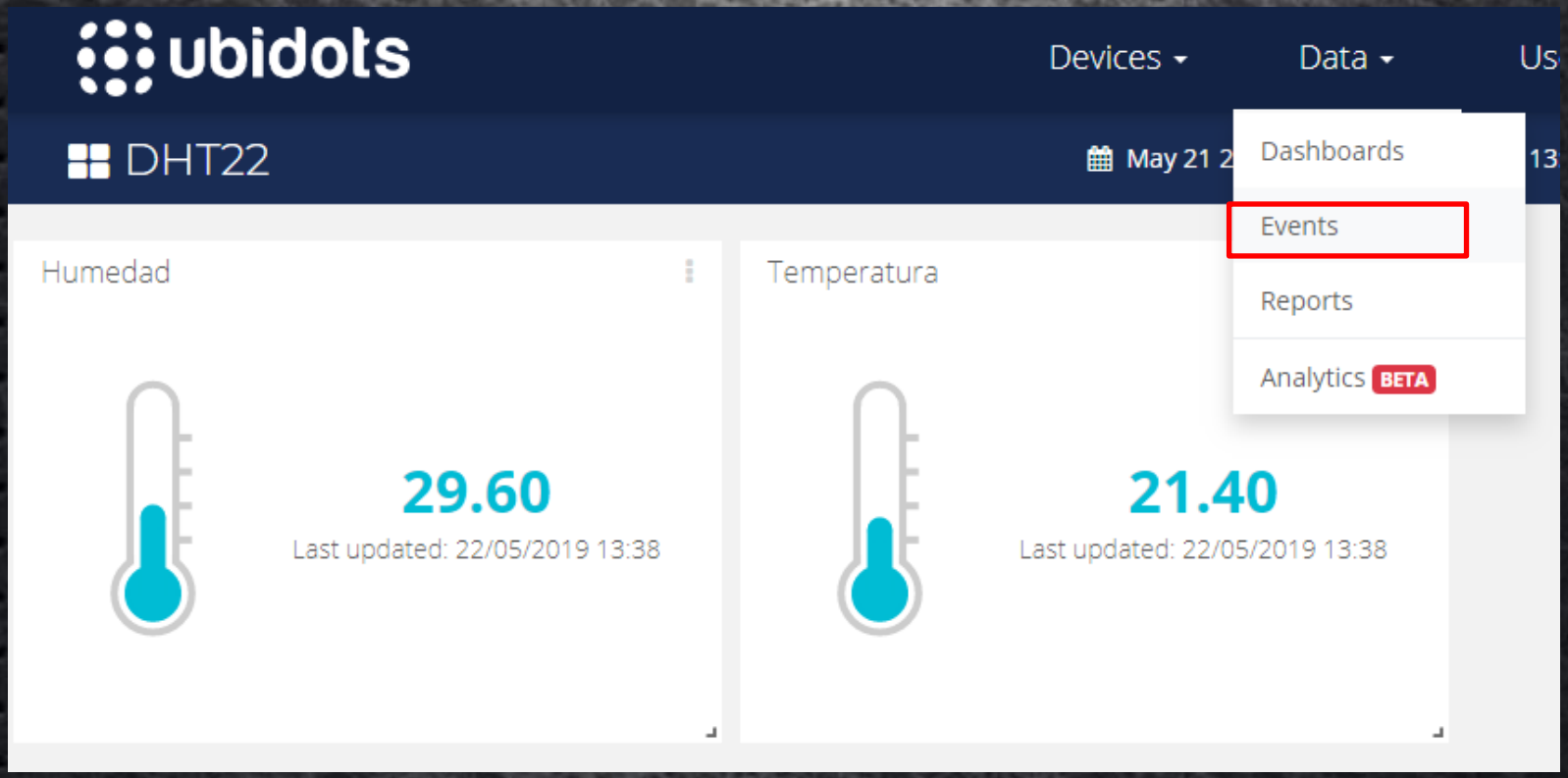
EJERCICIO I - UBIDOTS



Temperatura y Humedad - Ubidots

The MAKERS INFORMATICA

EJERCICIO I - UBIDOTS



Events - Ubidots

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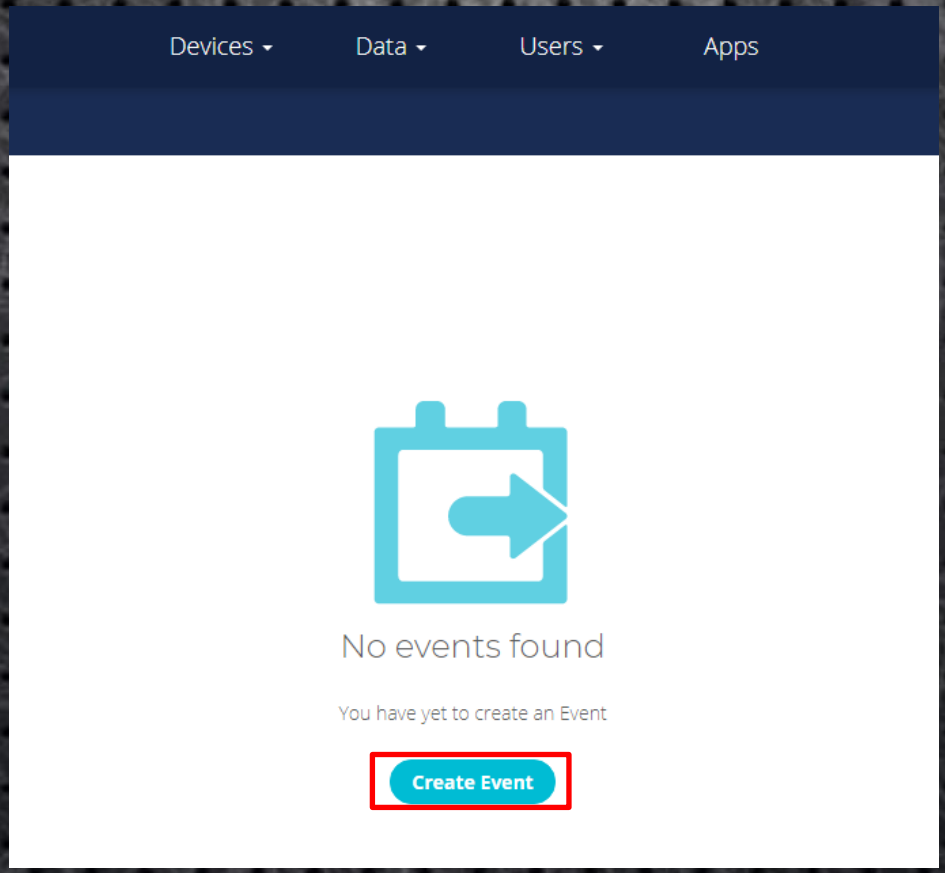
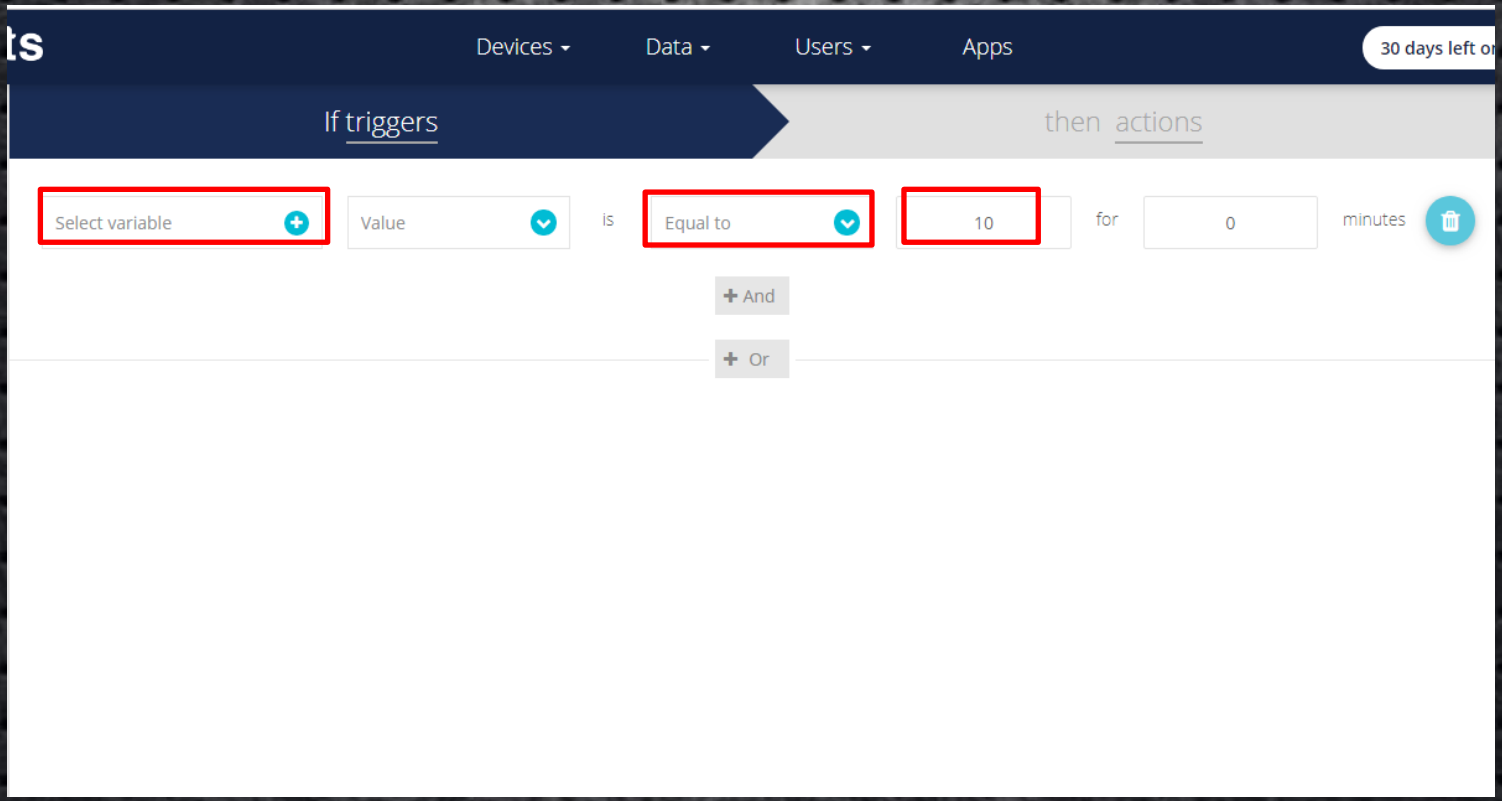
EJERCICIO I - UBIDOTS



Create Event - Ubidots

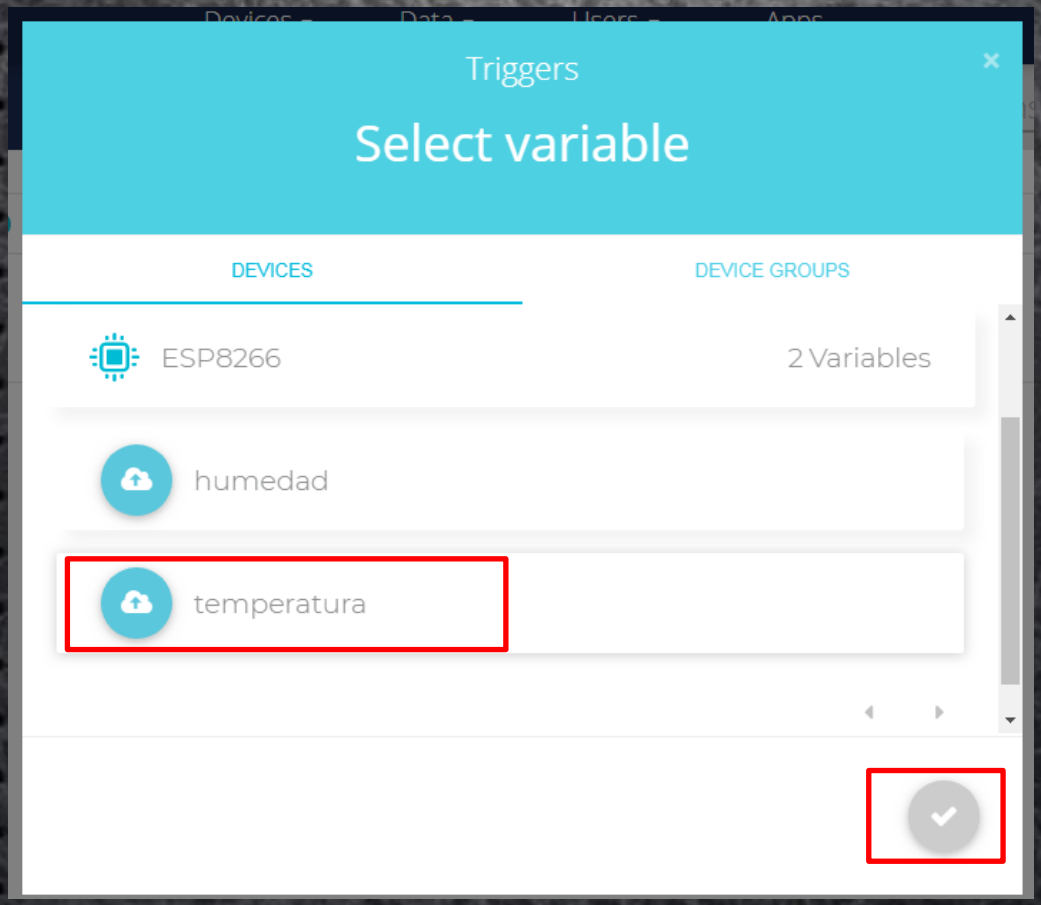
EJERCICIO I - UBIDOTS



Select variable, equal to- Ubidots

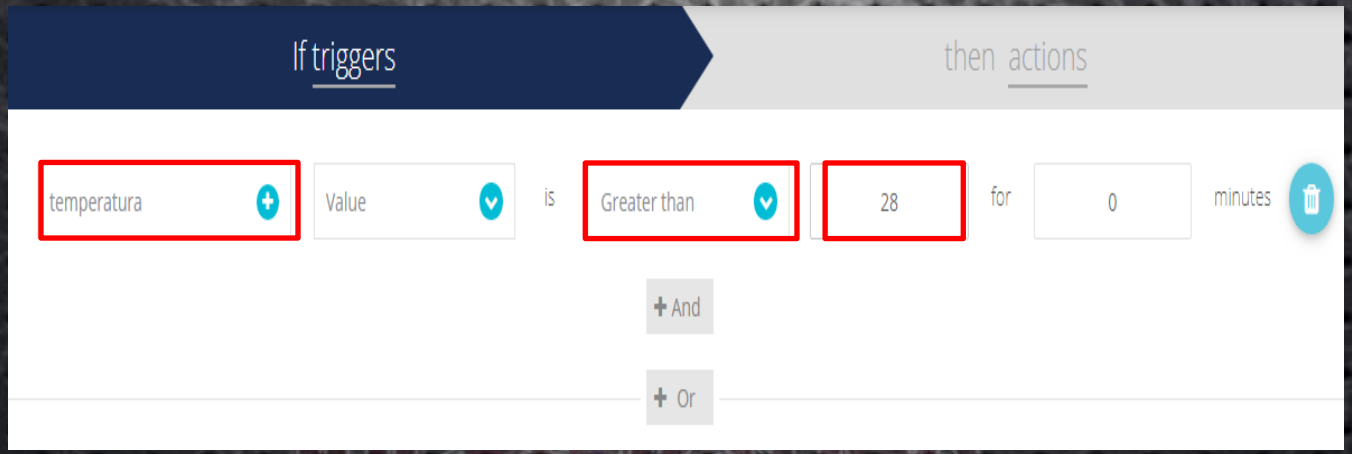
The MAKERS INFORMATICA

EJERCICIO I - UBIDOTS



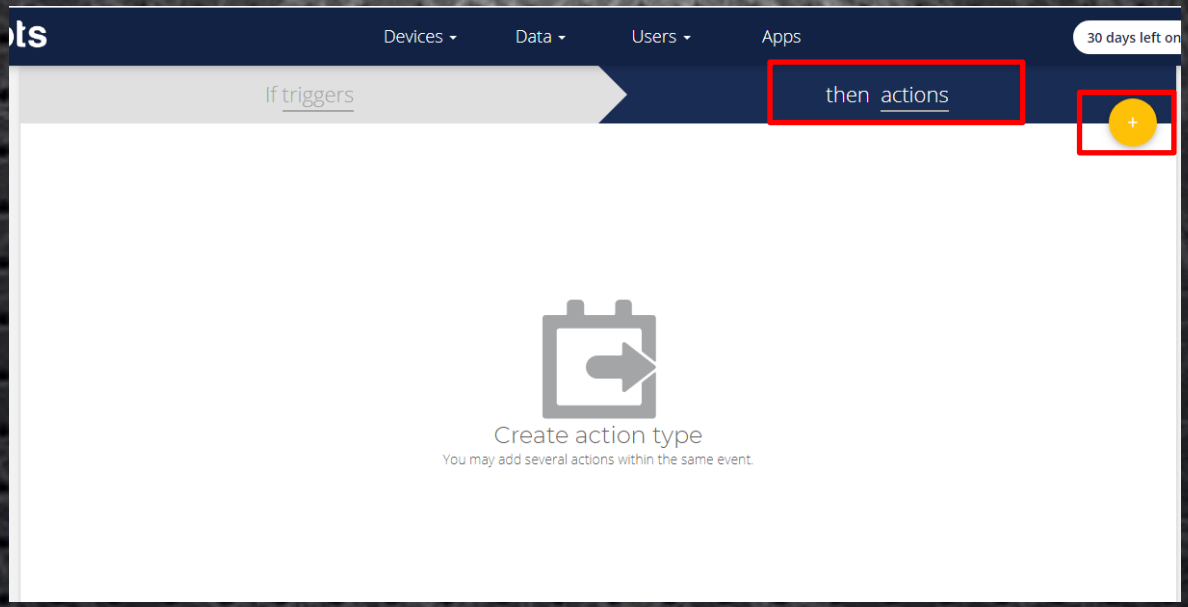
Select variable - Ubidots

EJERCICIO I - UBIDOTS



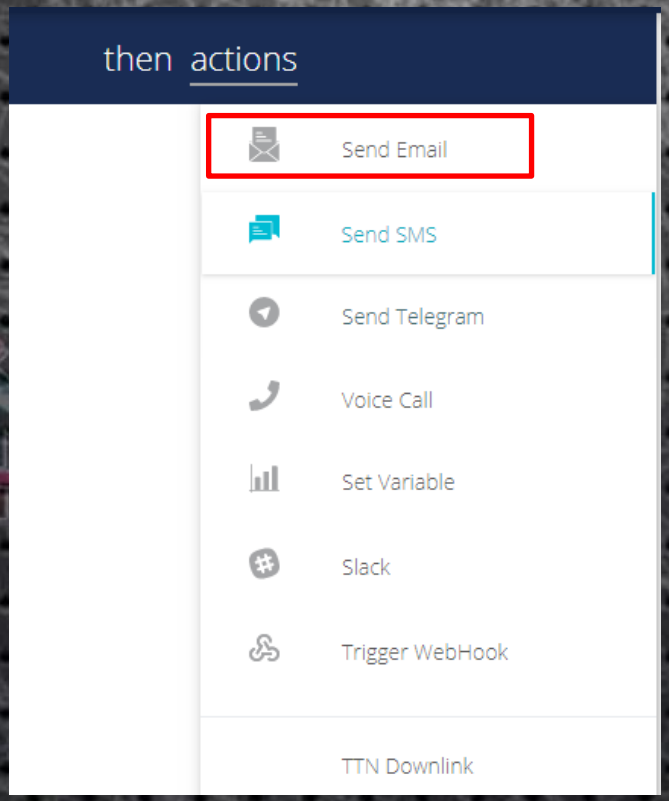
Temperatura, value , Greater than, 28 - Ubidots

EJERCICIO I - UBIDOTS



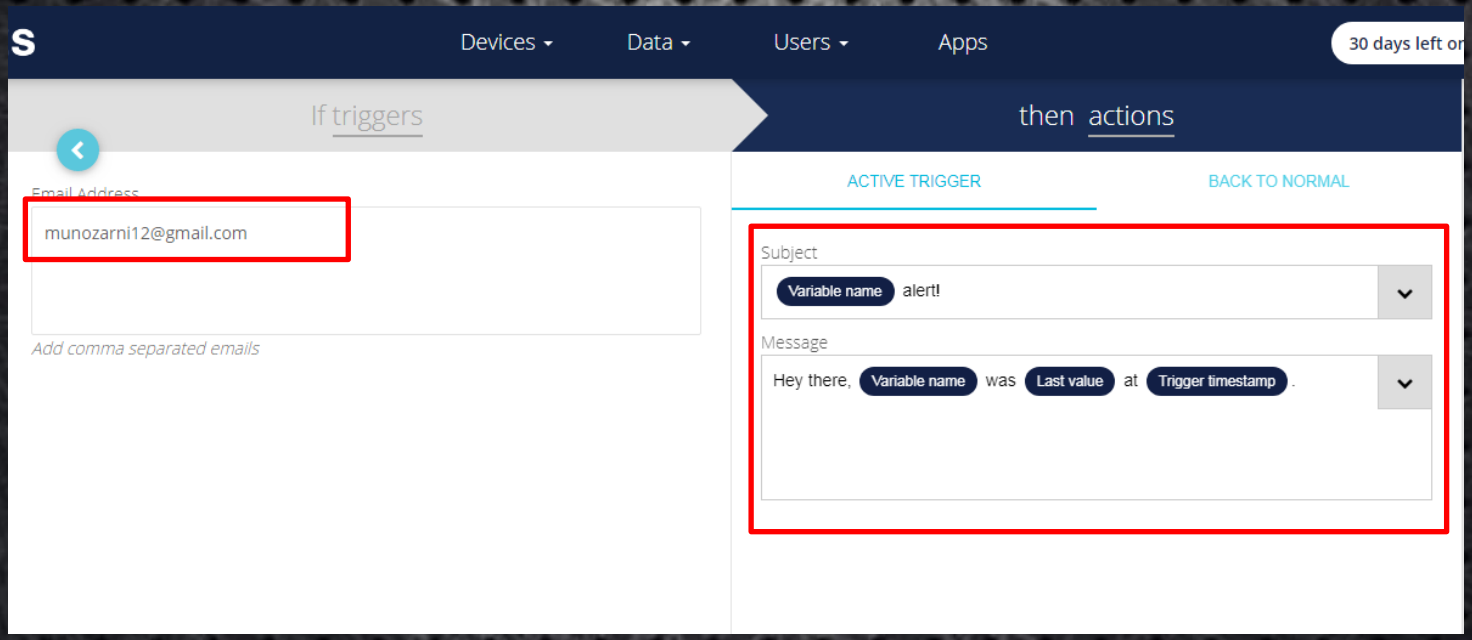
Then actions - Ubidots

EJERCICIO I - UBIDOTS



Send Email - Ubidots

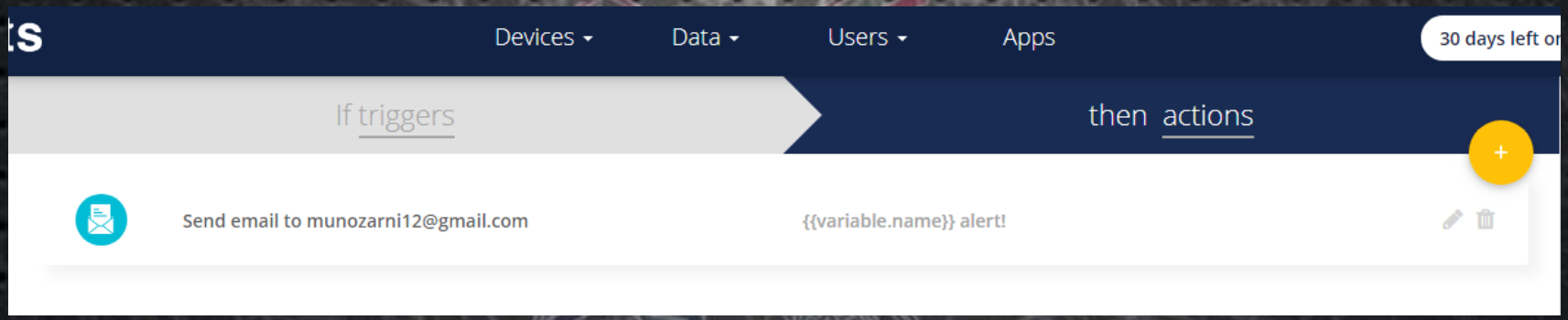
EJERCICIO I - UBIDOTS



Registro - Ubidots

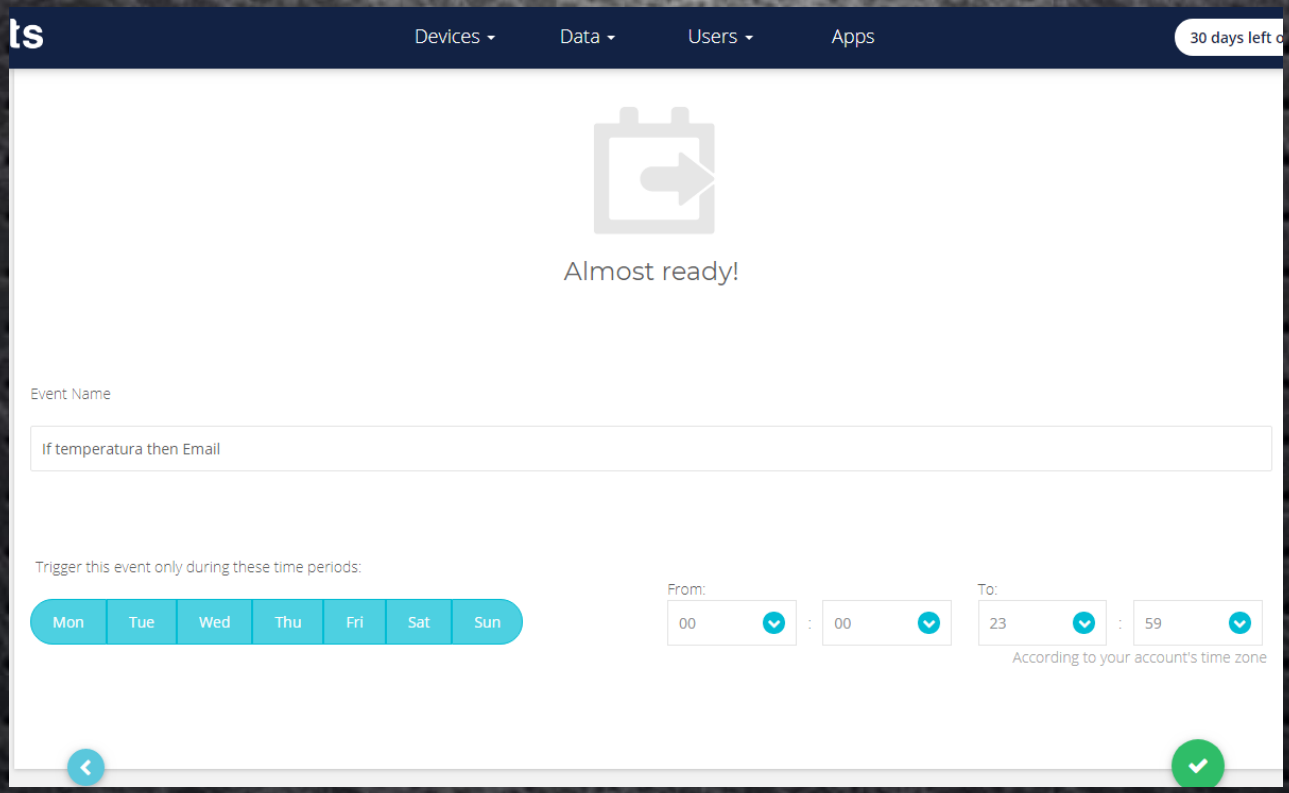
The MAKERS INFORMATICA

EJERCICIO I - UBIDOTS



Ubidots

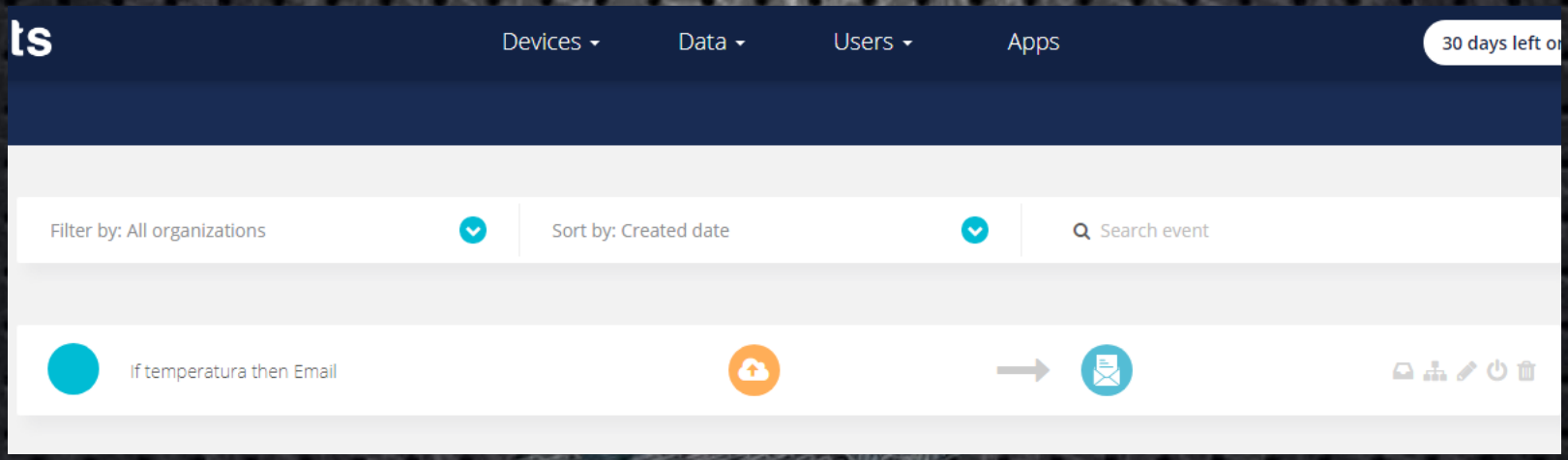
EJERCICIO I - UBIDOTS



Ubidots

The MAKERS INFORMATICA

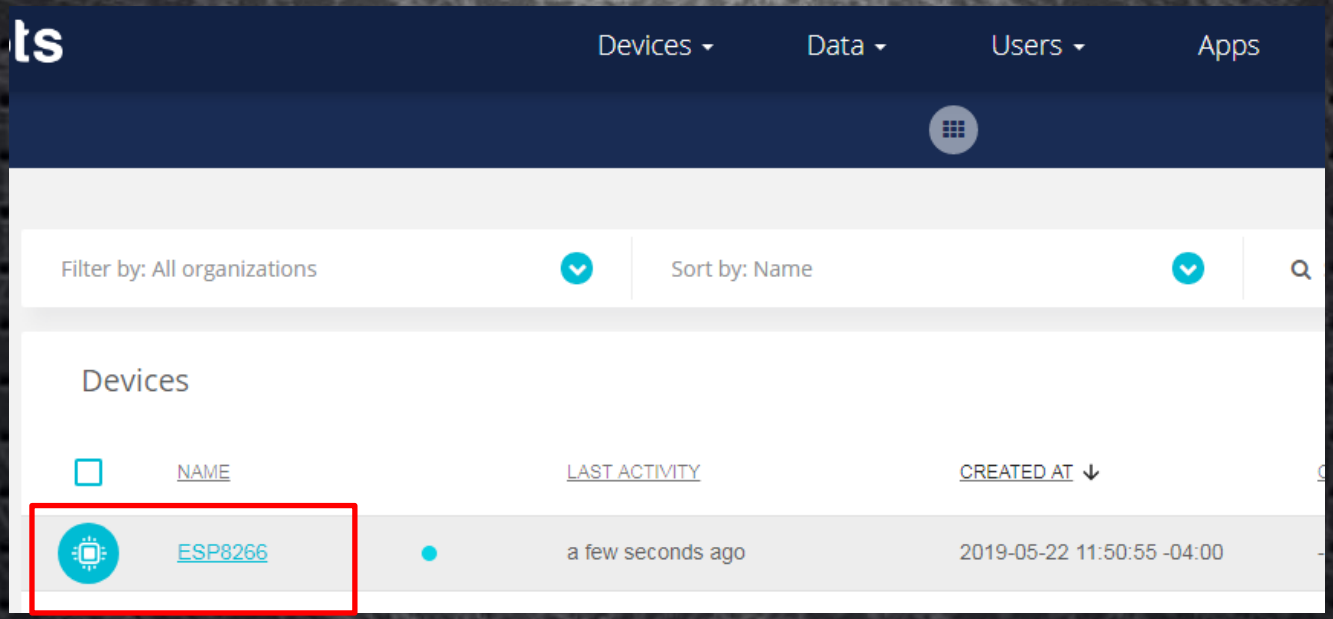
EJERCICIO I - UBIDOTS



Registro - Ubidots

ENCENDIENDO UN LED

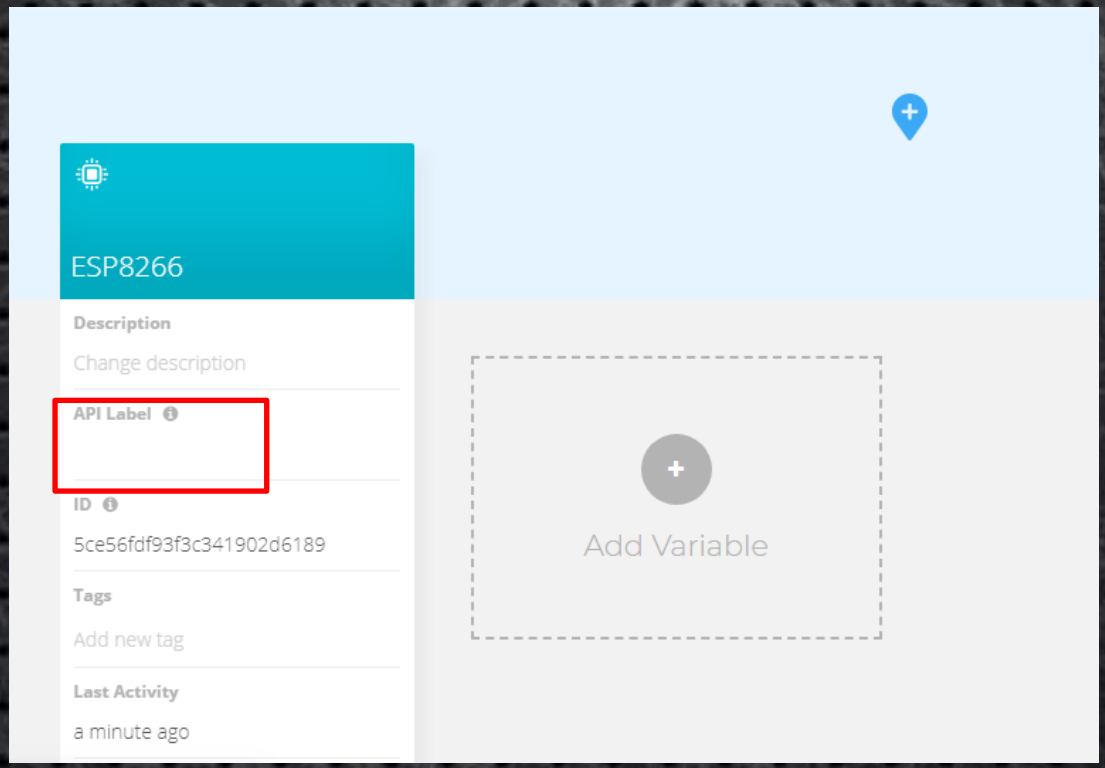
EJERCICIO II - UBIDOTS



ESP8266 - Ubidots

The MAKERS INFORMATICA

EJERCICIO II - UBIDOTS



API Label - Ubidots

The MAKERS INFORMATICA

EJERCICIO II - UBIDOTS

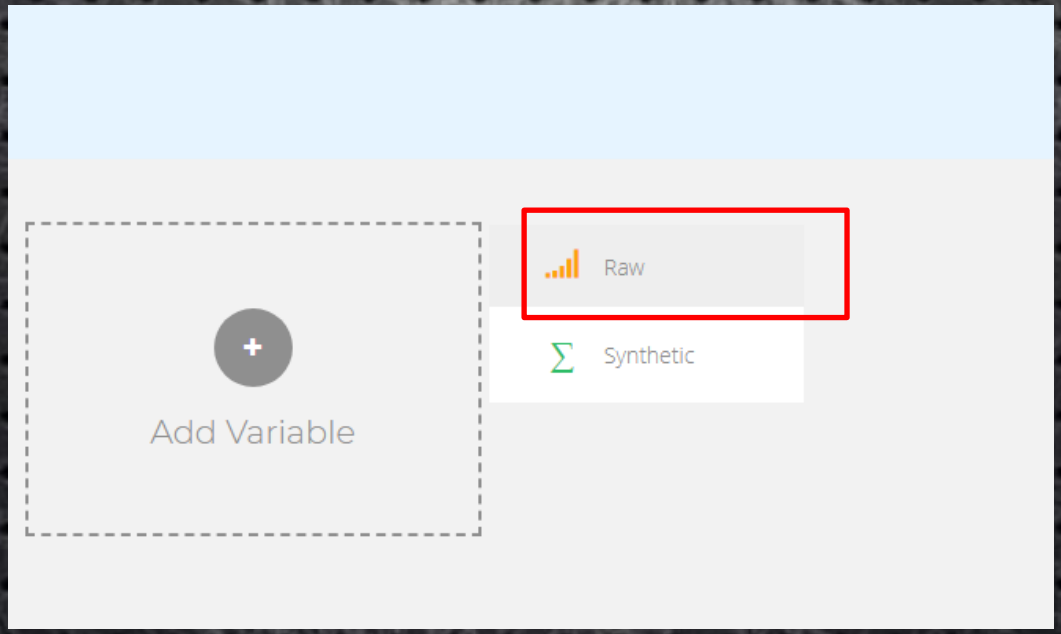
Abrir el sketch.ino (ubidotsLed). Copiar el **token predeterminado de ubidots** a la variable token del **sketch.ino. Conectarse a una red WiFi (SSID Y PASS). Copiar el API Label del ESP8266 de ubidots (Ver diapositiva anterior) a la variable DEVICE.**

EJERCICIO II - UBIDOTS

ubidotsLed §

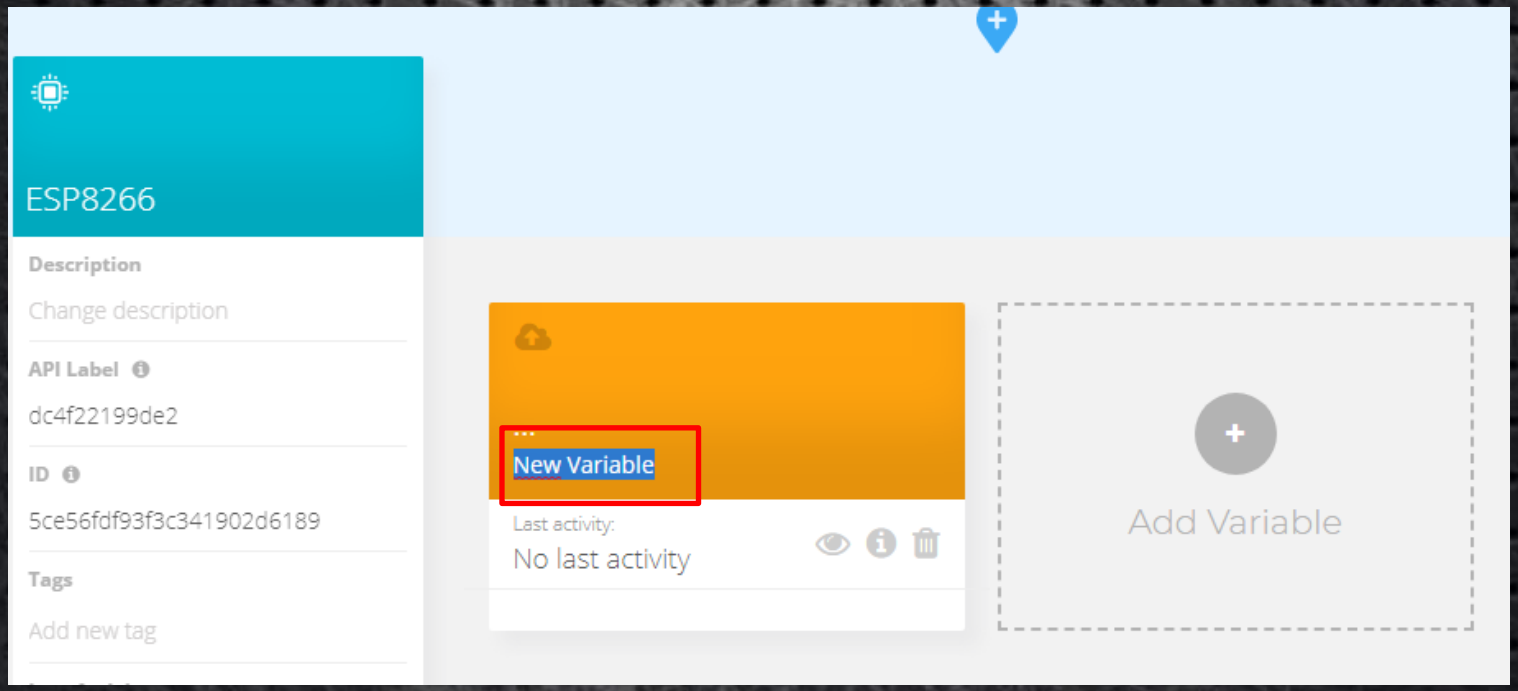
```
#include "UbidotsMicroESP8266.h"

#define DEVICE  "COPIAR API LABEL "
#define VARIABLE  "COPIAR API Label de la nueva variable"
#define TOKEN  "Copiar Token de ubidots"

#define WIFISSID "Red WiFi" // Put here your Wi-Fi SSID
#define PASSWORD "Contraseña de la red  WiFi" // Put here y
```

EJERCICIO II - UBIDOTS



Raw - Ubidots

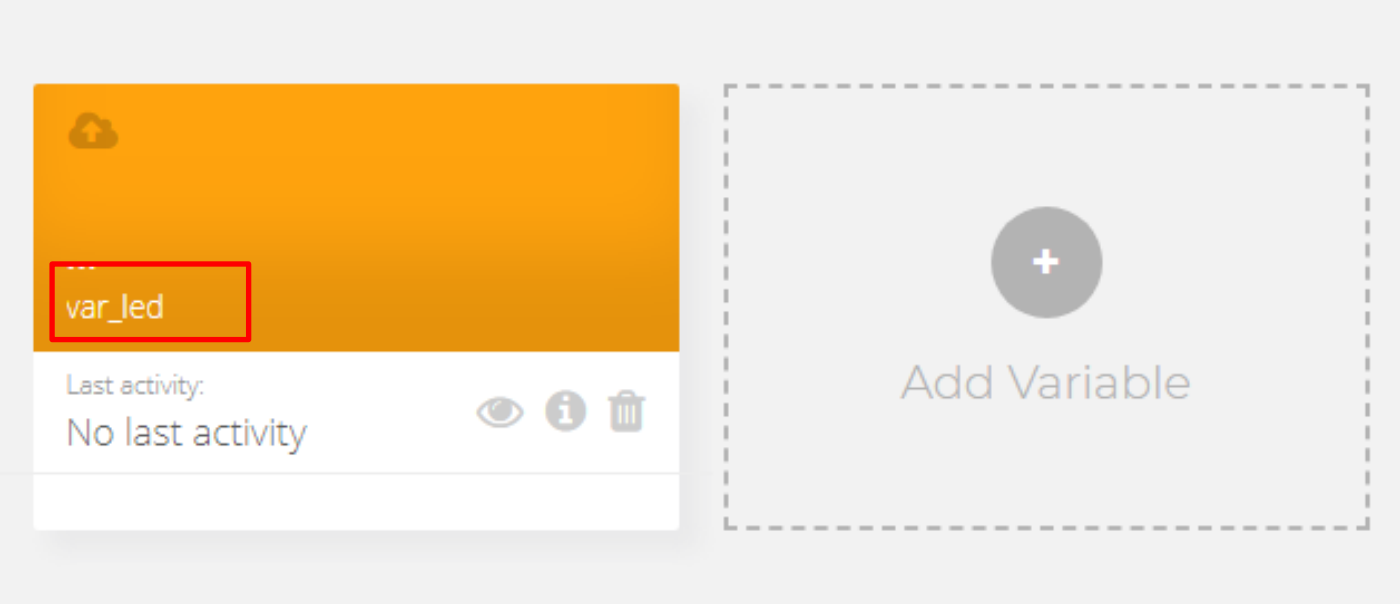
EJERCICIO II - UBIDOTS



New variable -> var_led - Ubidots

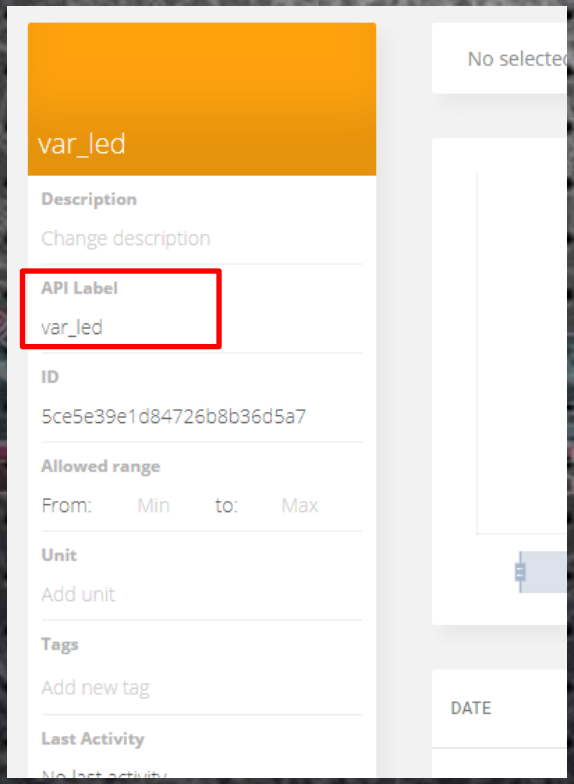
The MAKERS INFORMATICA

EJERCICIO II - UBIDOTS



var_led- Ubidots

EJERCICIO II - UBIDOTS



API Label - Ubidots

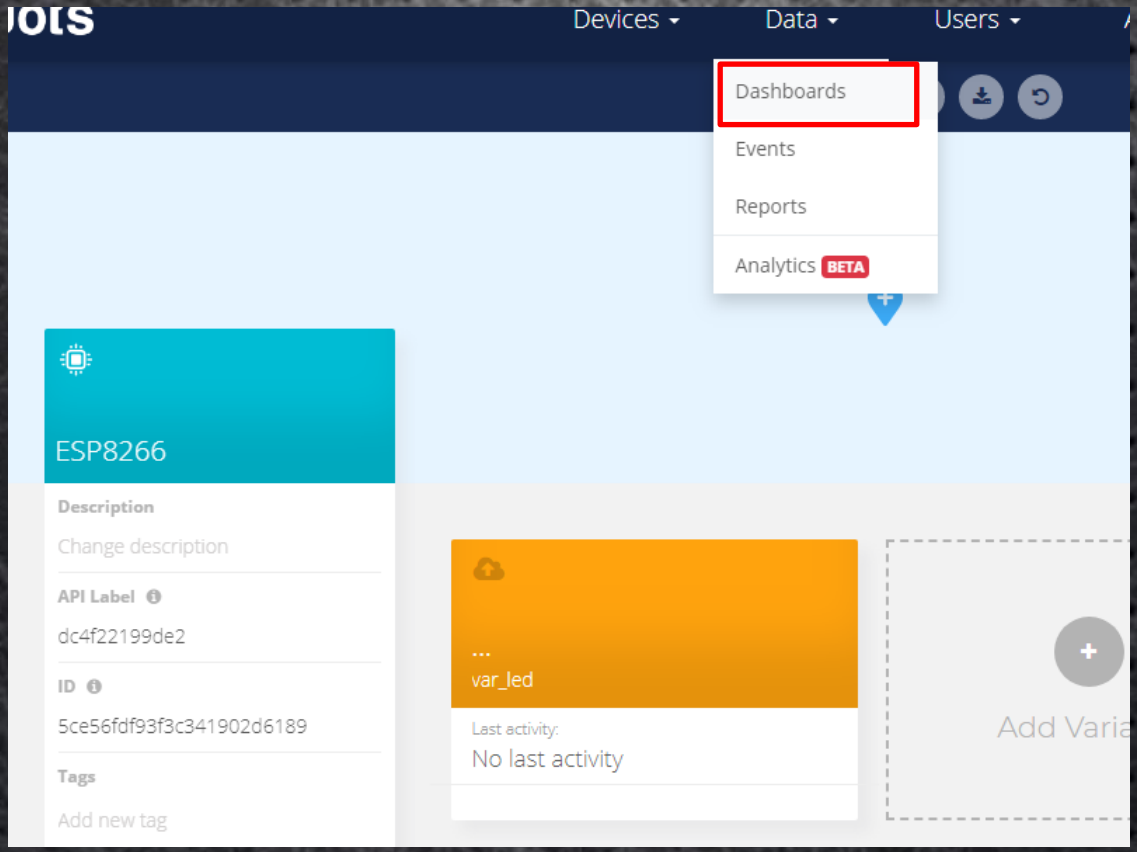
EJERCICIO II - UBIDOTS

Copiar el **API Label** (Ver diapositiva anterior) a la variable **VARIABLE** del sketch.ino

ubidotsLed §

```
#include "UbidotsMicroESP8266.h"

#define DEVICE  "COPIAR API LABEL "
#define VARIABLE  "COPIAR API Label de la nueva variable"
#define TOKEN  "Copiar Token de ubidots"

#define WIFISSID "Red WiFi" // Put here your Wi-Fi SSID
#define PASSWORD "Contraseña de la red  WiFi" // Put here y
```

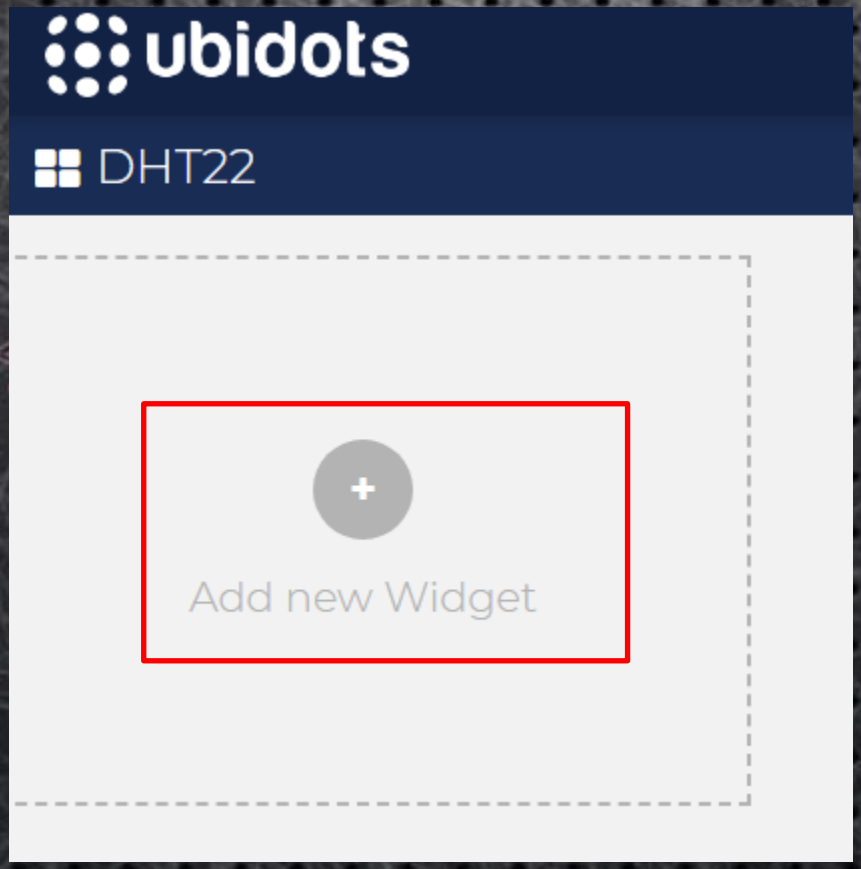
EJERCICIO II - UBIDOTS



Dashboards - Ubidots

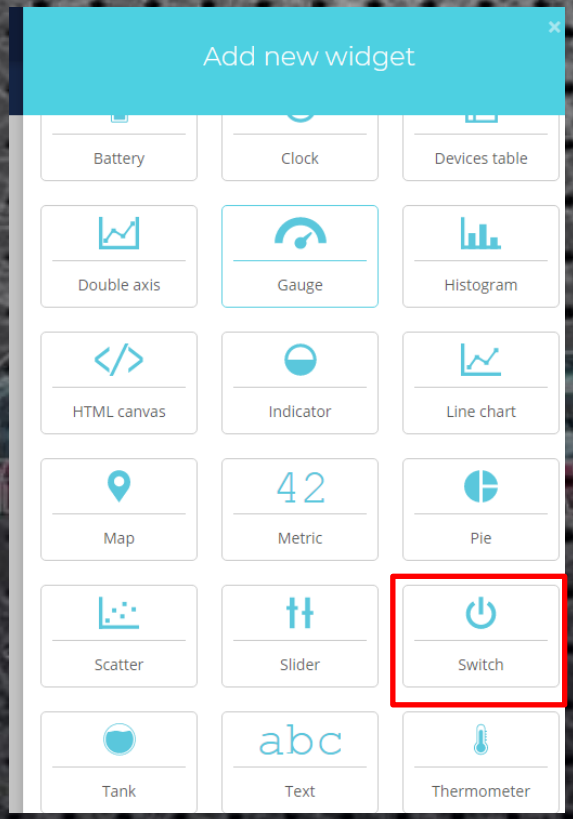
The MAKERS INFORMATICA

EJERCICIO II - UBIDOTS



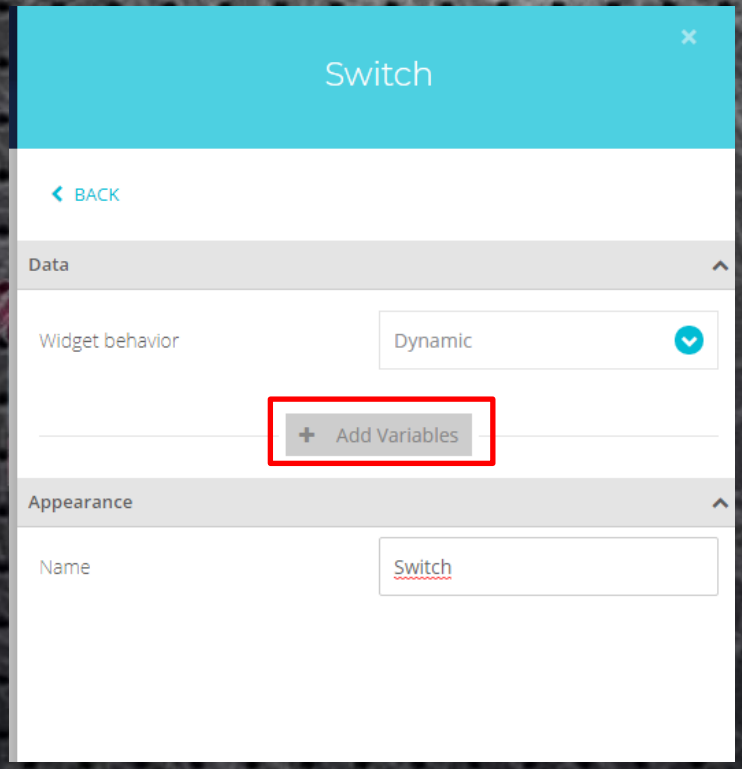
Add new Widget - Ubidots

EJERCICIO II - UBIDOTS



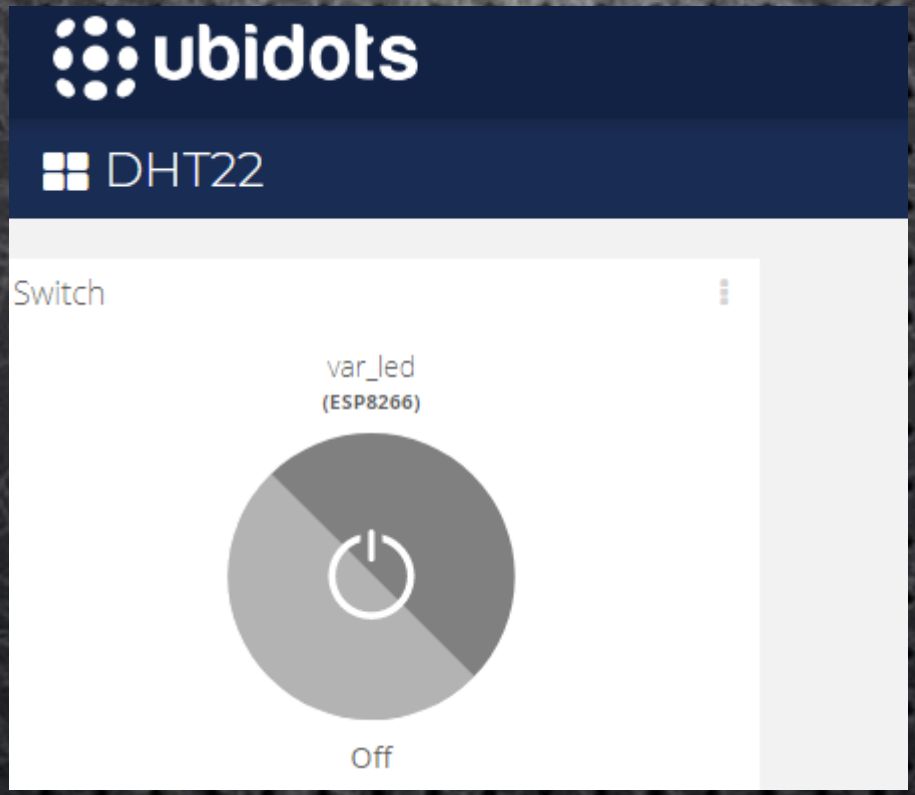
Switch - Ubidots

EJERCICIO II - UBIDOTS



Add variables -> var_led - Ubidots

EJERCICIO II - UBIDOTS



Switch var_led - Ubidots

GRACIAS