

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/



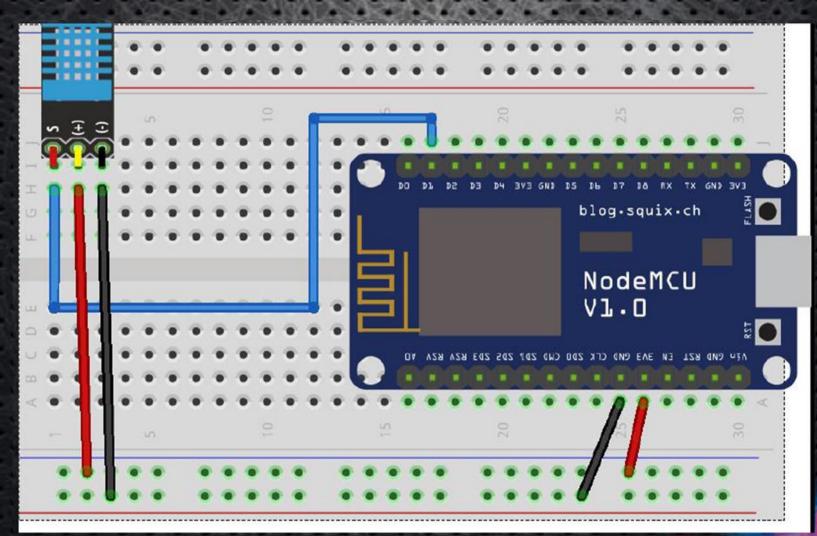


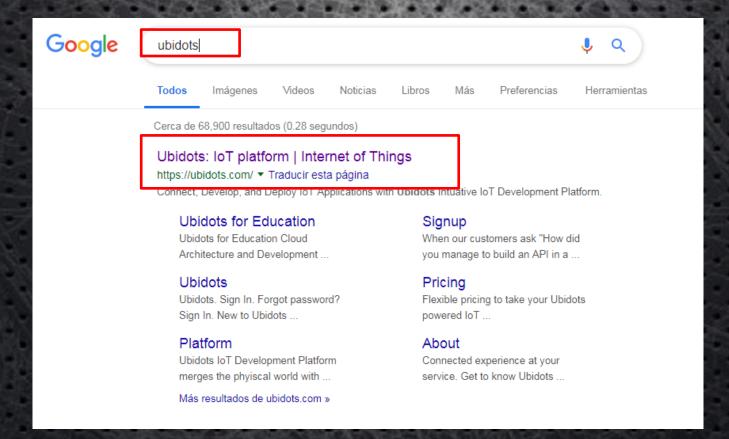
MONITOREANDO LA TEMPERATURA Y HUMEDAD





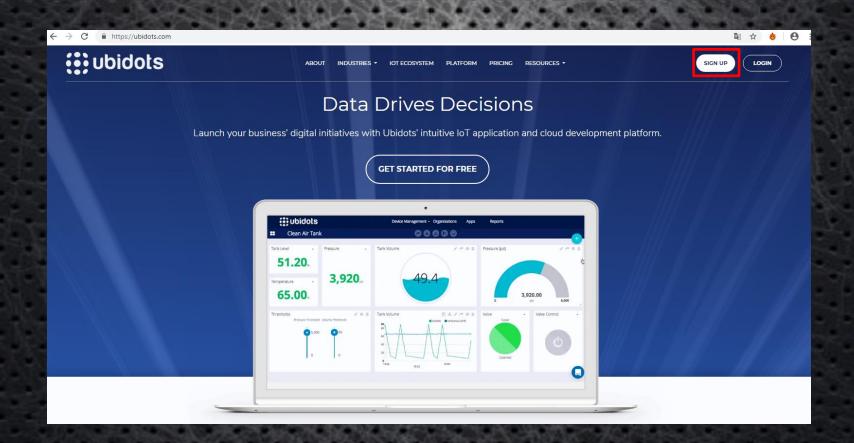
ESQUEMA





Ubidots





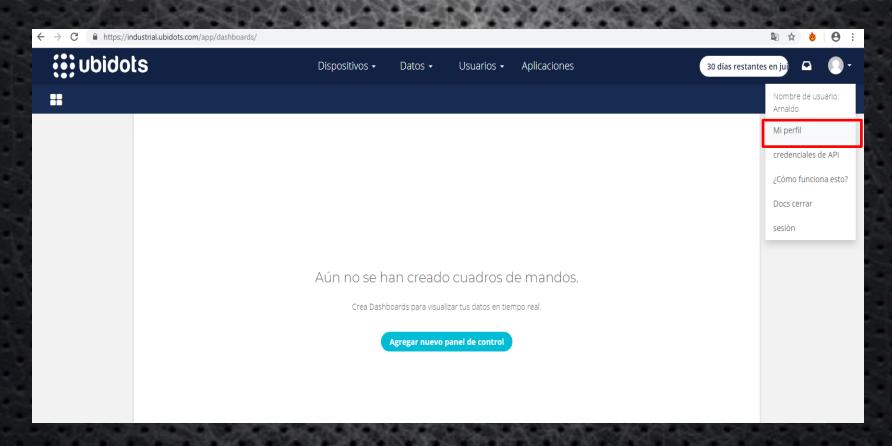
Página principal - Ubidots



ubidots				LOGIN	
Ubidots Low-cod	de IoT Application Dev	velopment Pla	atform		
A toolkit	for assembling and launching Mobile ar	nd Web IoT Apps			
		Username	_		
		Email			
		App name	.iot.ubid	dots.com	
		Password			
			EATE MY APP o our Terms of Service and Privacy P	Policy	
aws partner sigfox *Parti	icle THE THINGS	® €SPR€SSIF	MICROCHIP DESIGNPARTNER	© csia	
45,000 IoT Entrepreneu	rs are already conne	cting the dots	s with Ubidots		

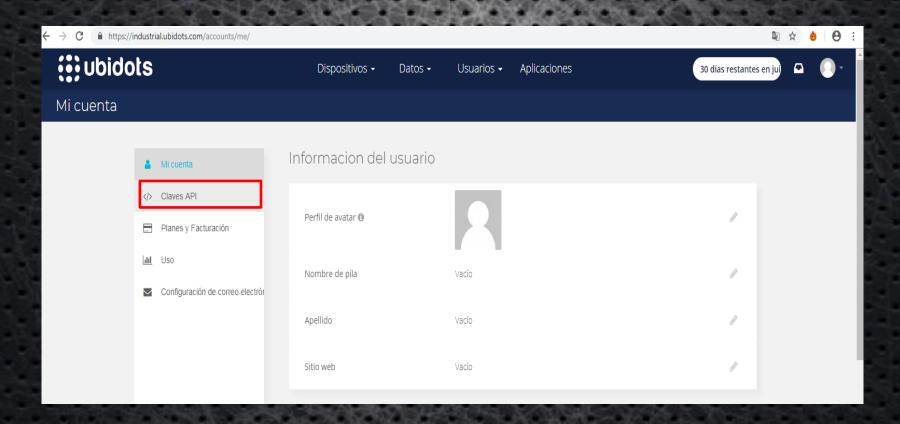
Registro - Ubidots





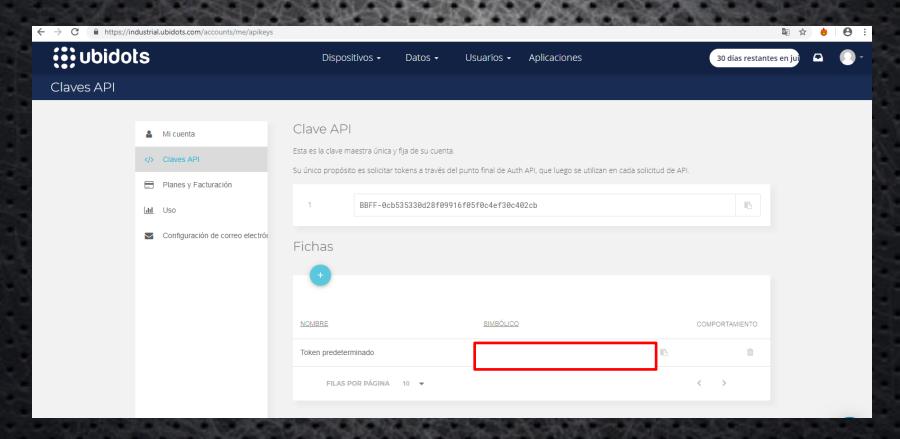
Mi perfil- Ubidots





Claves API- Ubidots





Token predeterminado - Ubidots



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

oo ubidotsDHT22 A	Arduino 1.6.11			
Archivo <u>E</u> ditar Pro	ograma Herramien <u>t</u> as Ayuda			
	Verificar/Compilar	Ctrl+R		
	Subir	Ctrl+U		
ubidotsDHT:	Subir Usando Programador	Ctrl+Mayús+U		
#include "U	Exportar Binarios compilados	Ctrl+Alt+S		
#include <es #include <de< td=""><td>Mostrar Carpeta de Programa</td><td>Ctrl+K</td><td>-</td><td></td></de<></es 	Mostrar Carpeta de Programa	Ctrl+K	-	
#define DHT	Incluir Librería	,	Δ	
#define DHT1 DHT dht(DHT1	Añadir fichero		Gestionar Librerías	
			Añadir libreria .ZIP	
	"Copiar el token de ubido "red wifi"//red WiFi	ts"	Arduino librorias	

Reiniciar el IDE Arduino.

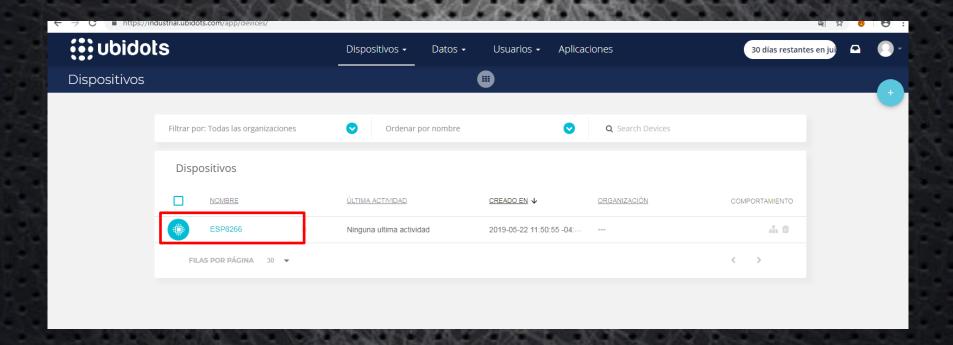


Copiar el token predeterminado de ubidots a la variable token del sketch.ino. Conectarse a una red WiFi (SSID Y PASS).

```
#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);

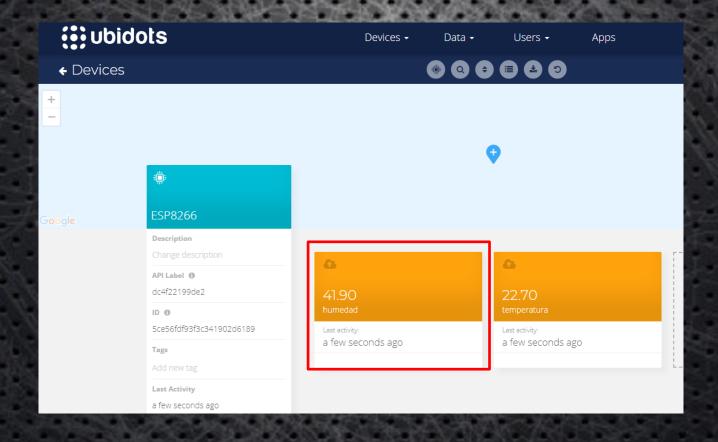
#define token "Copiar el token de ubidots"
#define ssid "red wifi"//red WiFi
#define pass "clave de la red WiFi"//contraseña de la
Ubidots client(token);
```



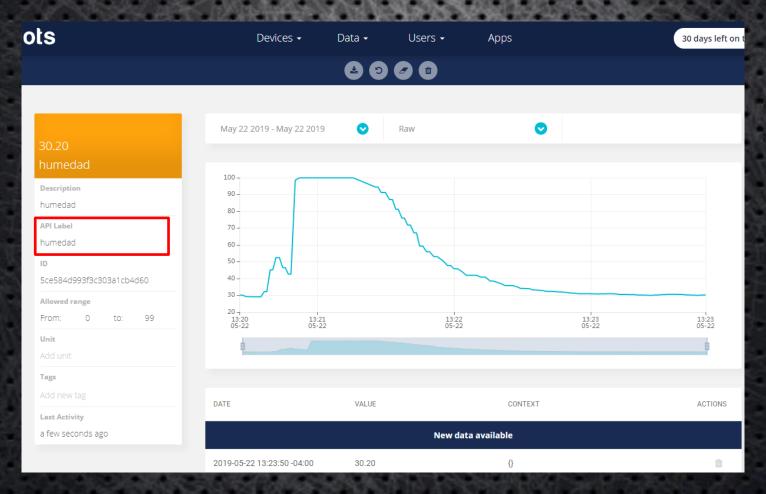


Dispositivos - Ubidots



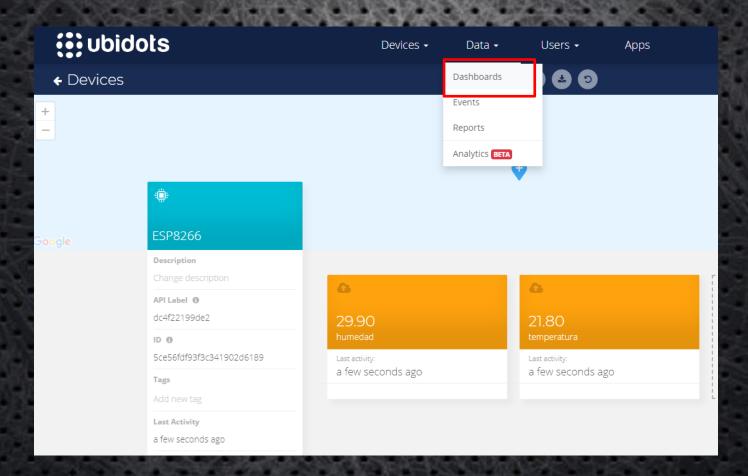






API Label





Data - Dashboards- Ubidots



	Devices →	Data →	Users →	Apps
2				
3				
3	No Da	ashboards	created yet	
ă.	Create Dasl	hboards to visualize	your data in real time	=
		Add new Dash	nboard	

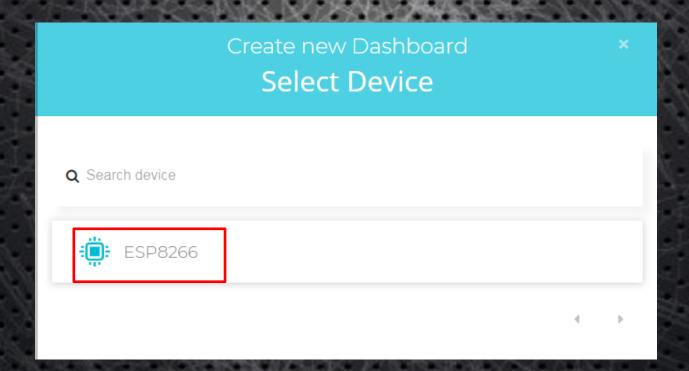
Add new Dashboards - Ubidots



类		Dashboard Information	×
14	Name	New Dashboard	
	Default time range	Last 24 hours	•
痉	Dynamic Dashboard		
The state of	Default device	Select Device	•
ILS	Resolution	Auto	•
世	Date format	05/22/2019 13:25	•
Ш	Appearance		^
$\{X\}$	Floating widgets		
47	Widgets opacity	100	
			•

Name, Default device - Ubidots





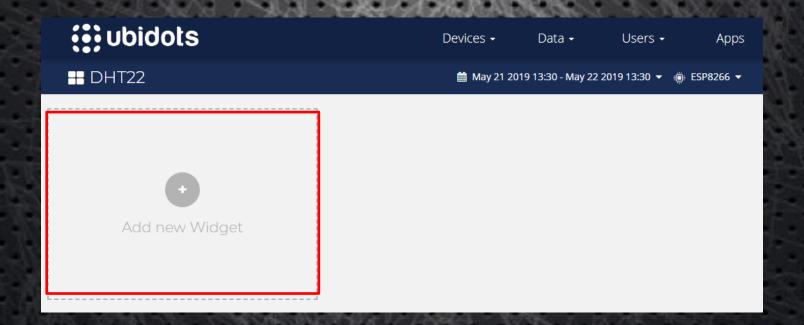
ESP8266- Ubidots



Ş		Dashboard Information	×
1	Name	DHT22	
	Default time range	Last 24 hours	•
	Dynamic Dashboard		
9	Default device	ESP8266	0
	Resolution	Auto	•
M	Date format	05/22/2019 13:25	•
	Appearance		^
	Floating widgets		
40	Widgets opacity	100	
60			
			②

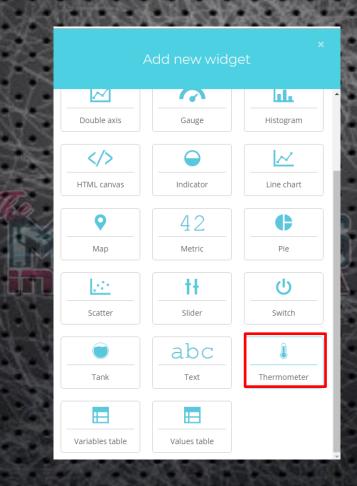
Name, Dafaul device - Ubidots





DASHBOARD - Ubidots





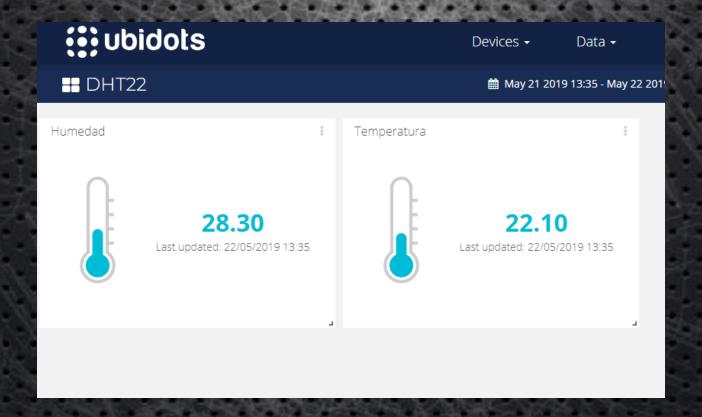
Thermometer - Ubidots



	Therr	x mometer
Ě	∢ BACK	Î
22	Data	^
Š	Widget behavior	Dynamic
	Label: temperatura	^
700	Aggregation method	Last Value 🔻
+	Appearance	^
ij	Name	Thermometer widget
	Font family	Open Sans
	Decimal points	Auto
	Date format	Set by Dashboard
		•

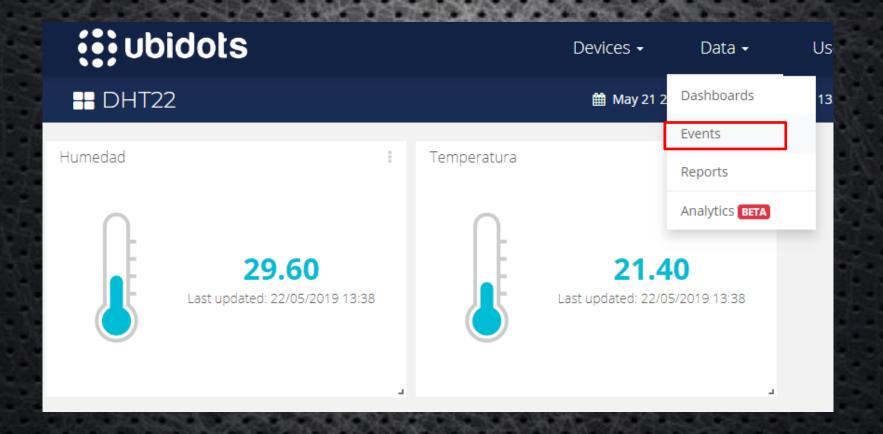
Label - Ubidots





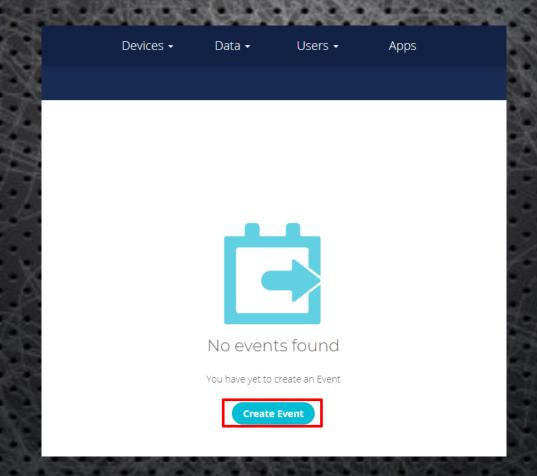
Temperatura y Humedad - Ubidots





Events - Ubidots





Create Event - Ubidots



ts	Devices →	Data →	Users →	Apps		30 days left or
If <u>triggers</u>				ther	actions	
Select variable 🐧 Value	•	is Equal to	•	10	for 0	minutes 👚
		+.	And			
		+	Or			

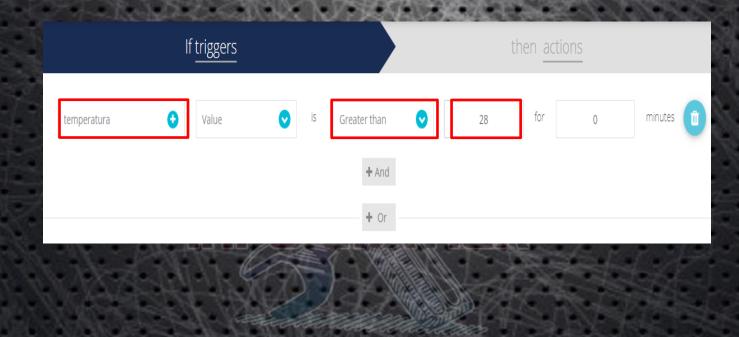
Select variable, equal to- Ubidots



Triggers * Select variable					
DEVICES	DEVICE GROUPS				
ESP8266	2 Variables				
humedad					
temperatura					
	< → •				

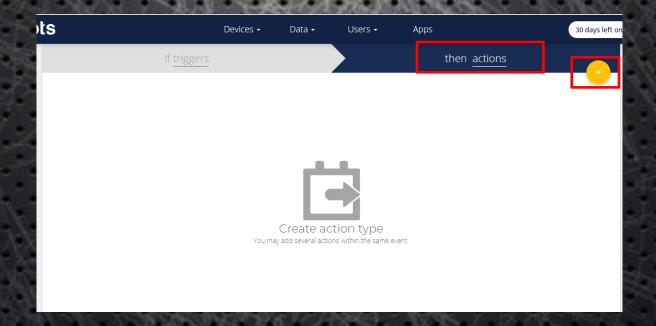
Select variable - Ubidots





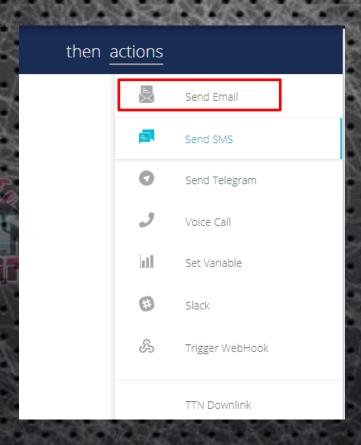
Temperatura, value, Greater than, 28 - Ubidots





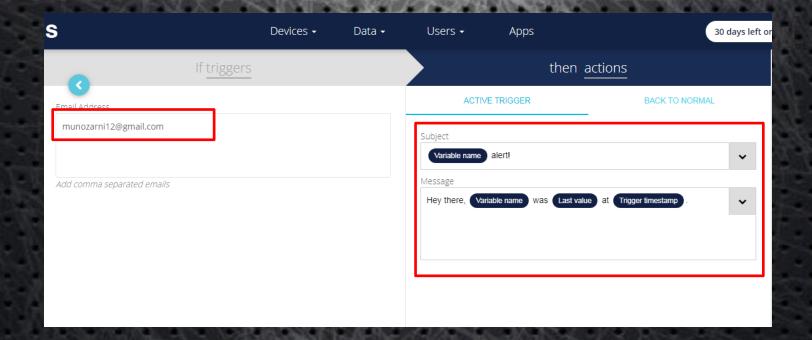
Then actions - Ubidots





Send Email - Ubidots





Registro - Ubidots





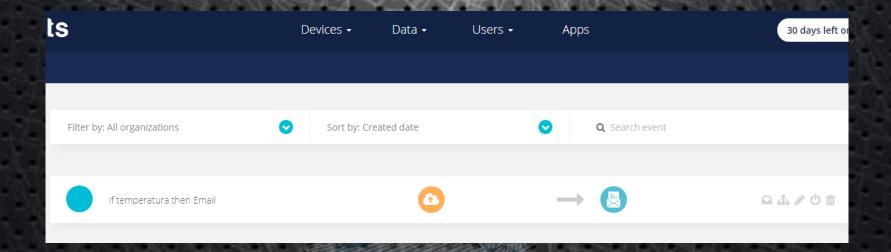
Ubidots



ts	Devices →	Data •	Users →	Apps		30 days left o
		Almost	ready!			
Event Name						
If temperatura then Email Trigger this event only during these time periods:			From:		To:	
Mon Tue Wed Thu Fri	Sat Sun		00	: 00	23 : According to you	59 or account's time zone

Ubidots





Registro - Ubidots



ENCENDIENDO UN LED

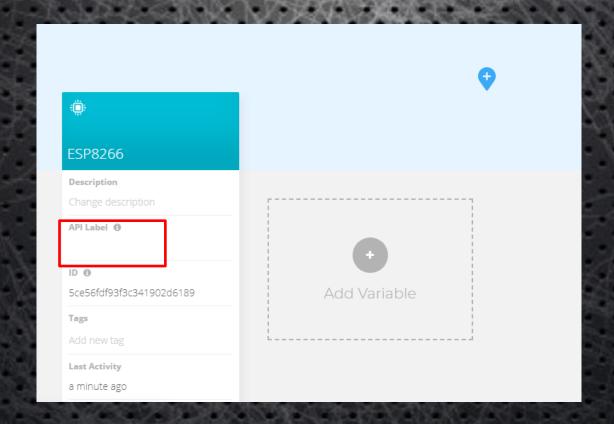




ts		Devices →	Data 🕶	Users -	Apps	
				•		
Filter by: All organizations		Sort by: N	ame		•	Q
Devices						
NAME		LAST ACTIVITY		CREATED AT ↓		<u>C</u>
<u>ESP8266</u>	•	a few seconds ago		2019-05-22 11:50:55	5 -04:00	-

ESP8266 - Ubidots





API Label - 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.



```
#include "UbidotsMicroESP8266.h"

#define DEVICE "COPIAR API LABEL"

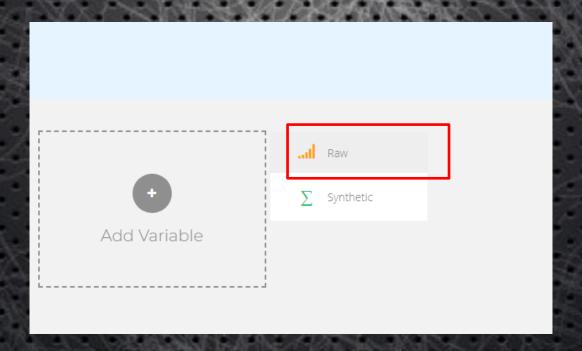
#define VARIABLE "COPIAR API Label de la nueva variable"

#define TOKEN "Copiar Token de ubidots"

#define WIFISSID "Red WiFi" // Put here your Wi-Fi SSID

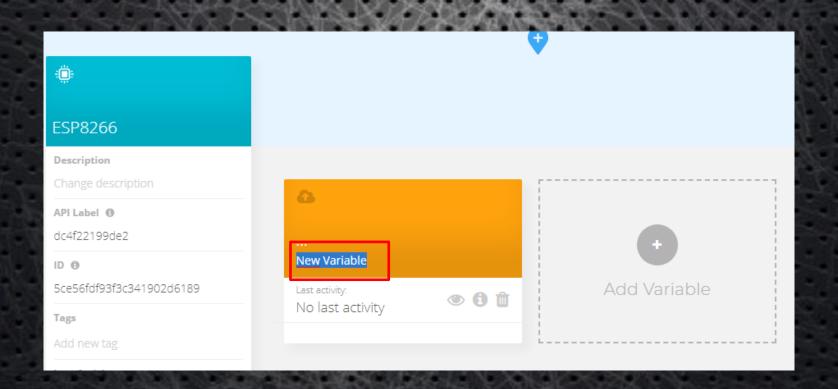
#define PASSWORD "Contraseña de la red WiFi" // Put here y
```





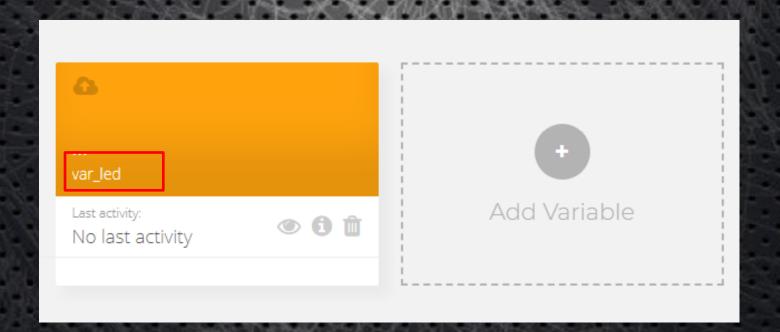
Raw - Ubidots





New variable -> var_led - Ubidots





var_led- Ubidots



	No selected
var_led	
Description	
Change description	
API Label	
var_led	
ID	
5ce5e39e1d84726b8b36d5a7	
Allowed range	-
From: Min to: Max	- 1
Unit	
Add unit	7
Tags	
Add new tag	DATE
Last Activity	DATE
No lost activity	

API Label - Ubidots



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

```
#include "UbidotsMicroESP8266.h"

#define DEVICE "COPIAR API LABEL"

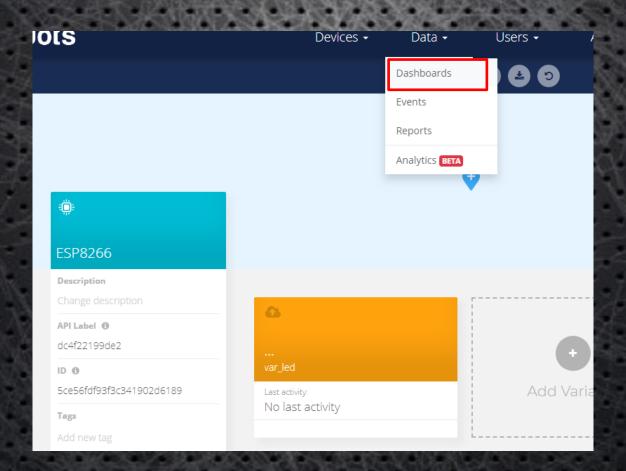
#define VARIABLE "COPIAR API Label de la nueva variable"

#define TOKEN "Copiar Token de ubidots"

#define WIFISSID "Red WiFi" // Put here your Wi-Fi SSID

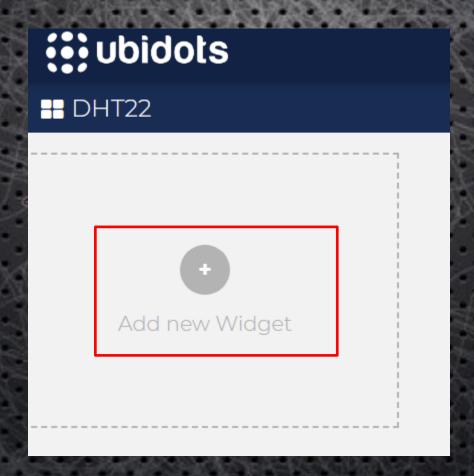
#define PASSWORD "Contraseña de la red WiFi" // Put here y
```





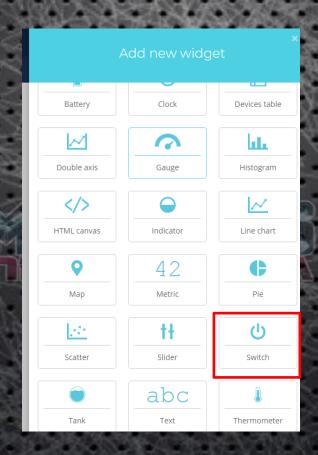
Dashboards - Ubidots





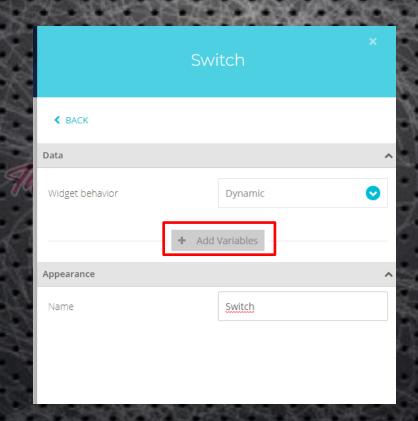
Add new Widget - Ubidots





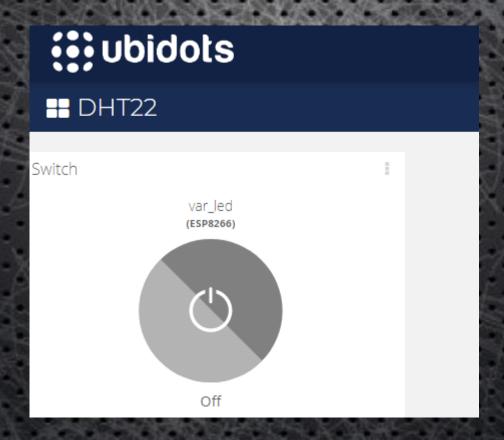
Switch - Ubidots





Add variables -> var_led - Ubidots





Switch var_led - Ubidots





