Prática 05: AdafruilO

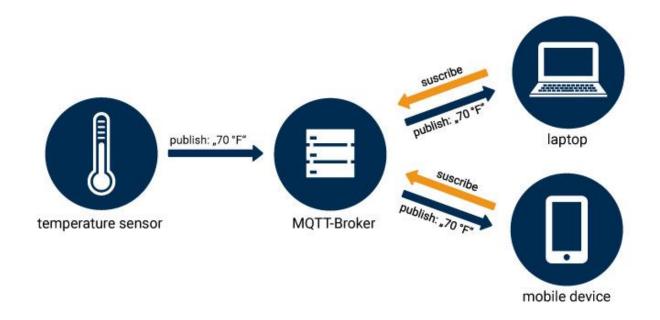
Disciplina: Introdução à Internet das Coisas - IMD0902

Prof. Heitor Florencio

Prof. Leonardo Augusto

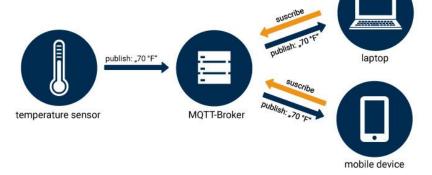


Arquitetura do MQTT



Arquitetura do MQTT

- Servidor
 - Broker
- Clientes
 - Publish
 - Subscribe



Arquitetura do MQTT

- **Tópico** "chave" / identificação da informação publicada.
 - É usado para direcionar a informação publicada / enviada a quem assina (quem "dá subscribe") no tópico.
 - O tópico consiste de uma string (por exemplo: MQTTTesteTopico)
- Payload informação que deseja enviar (propriamente dita).



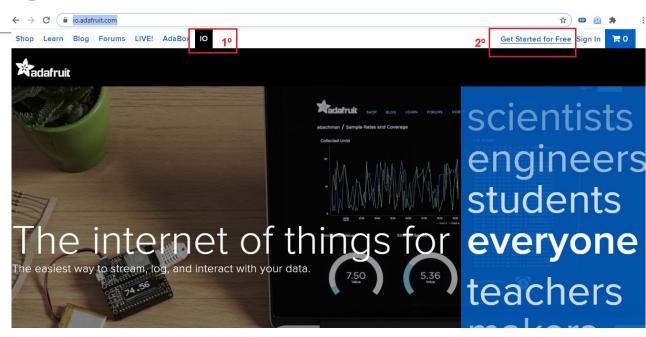




Adafruit.10

Adafruit.10

Link: https://io.adafruit.com/



Adafruit_IO

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scriptions

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Wishlists

Certificates and Coupons

duct Notifications

vsletter Settings

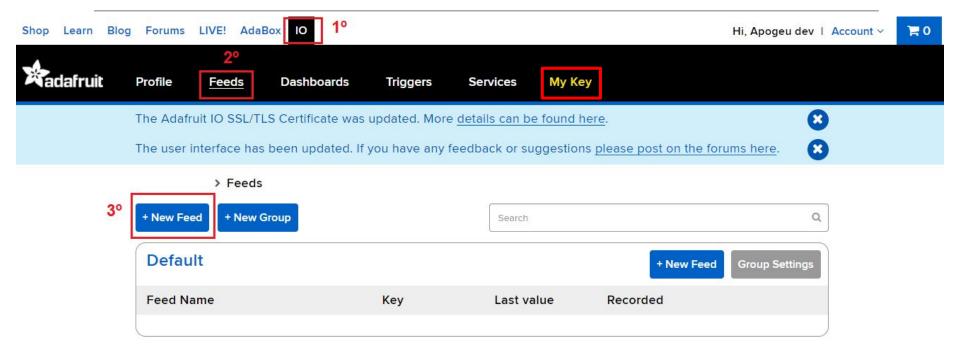
inge Password

vices

FIRST NAME	
LAST NAME	
EMAIL	
USERNAME	
GRAVATAR EMAIL	
FAVORITE COLOR	
TIME ZONE	
(GMT-03:00) Brasilia	

SAVE SETTINGS

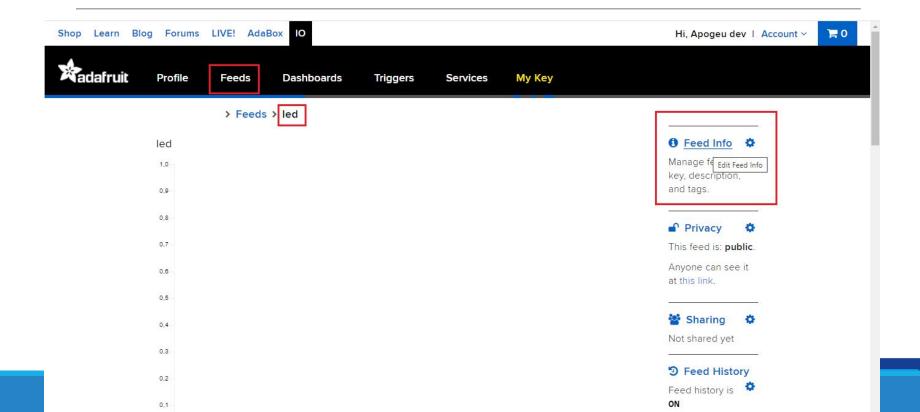
Adafruit.IO - Feeds



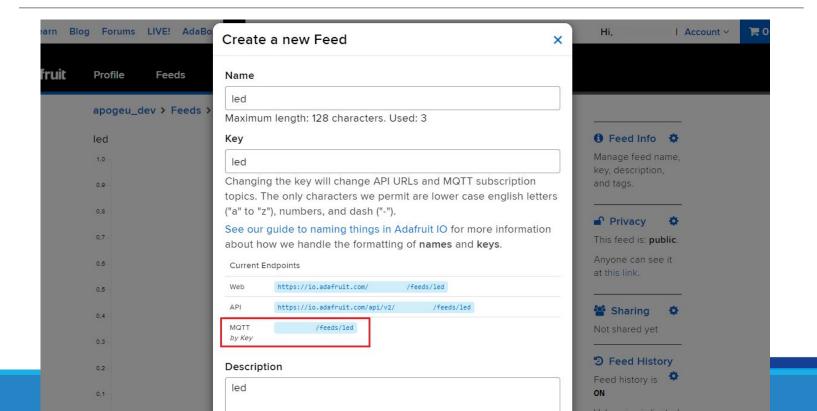
Adafruit - 10 Key

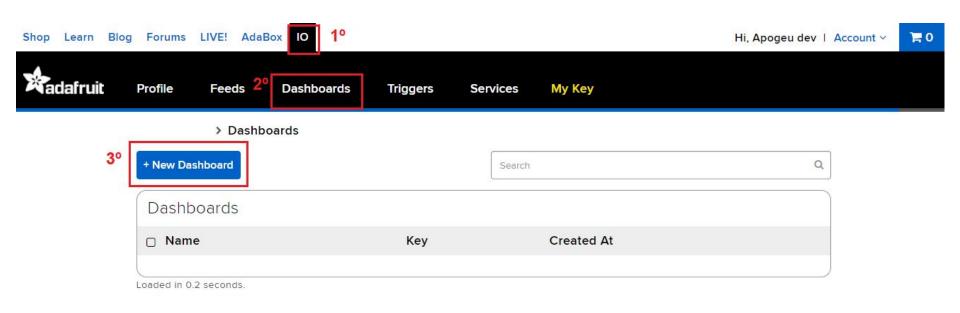


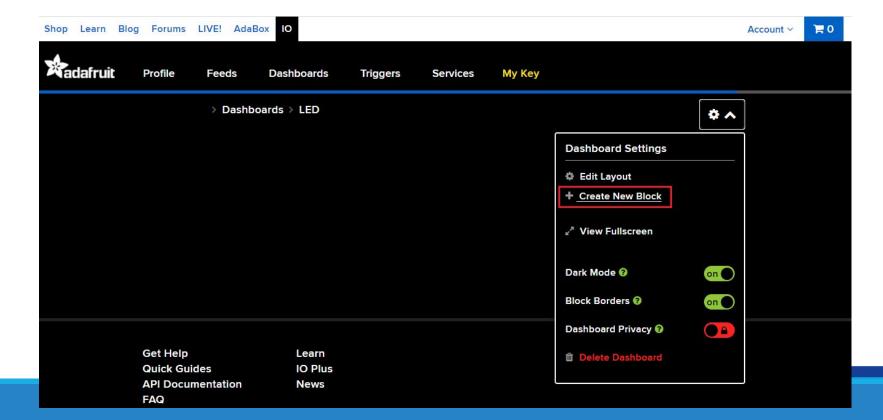
Adafruit.IO - Feeds

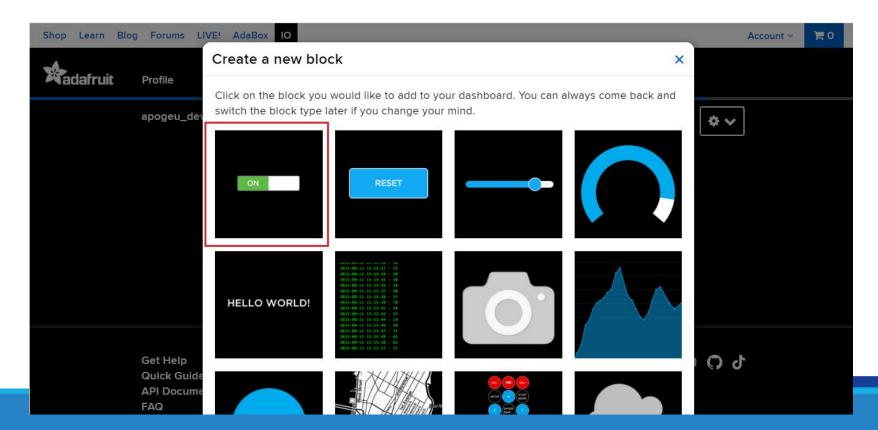


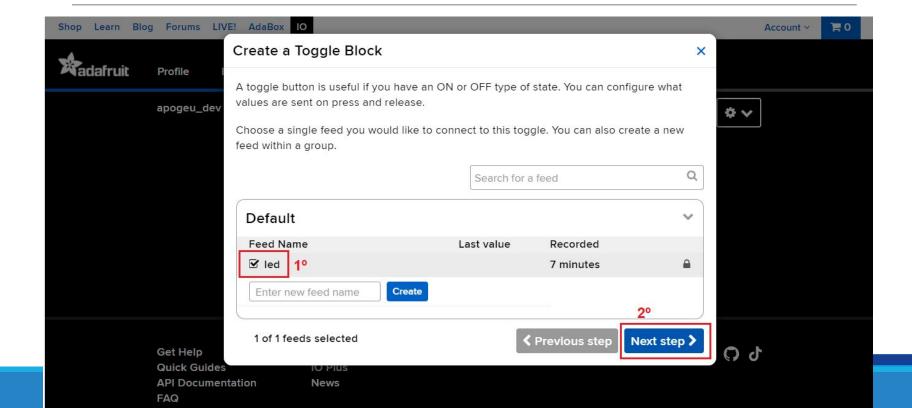
Adafruit.IO - Feeds

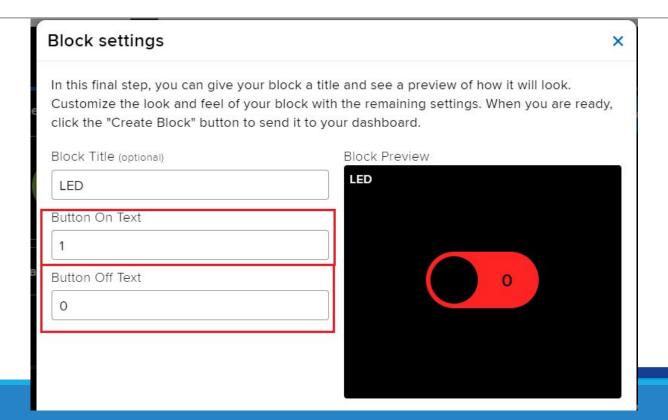










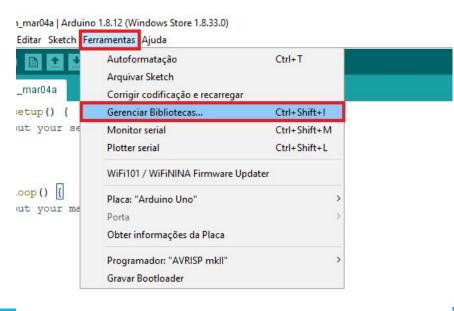


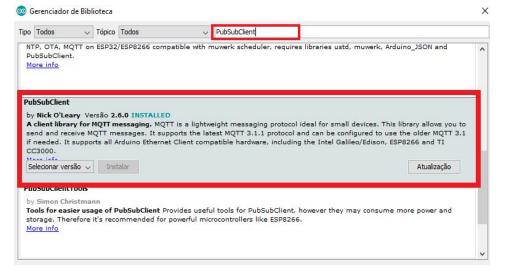




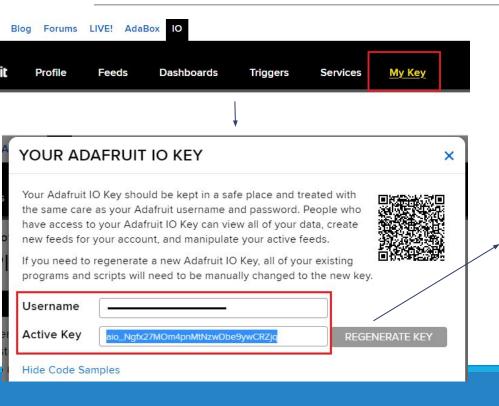
Arduino IDE

Instalar a biblioteca PubSubClient;





https://drive.google.com/file/d/1d2J8pmTb5x2qRKsknKfl2Djur4cOcWeJ/view?usp=sharing



```
const char* mqtt_broker = "io.adafruit.com";
const int mqtt_port = 1883;
int mqtt_timeout = 10000;
```

```
const char* mqtt_usernameAdafruitI0 = "user";
const char* mqtt_keyAdafruitI0 = "io_key";
```

```
mqtt_client.publish("user/feeds/imd0902", String(valor).c_str());
Serial.println("Publicou o dado: " + String(valor));
delay(10000);
mqtt_client.loop();
```

Desenvolva um dashboard que recebe um valor de string e um float e apresente esses dados em em blocos diferentes.

Create a new block X

Click on the block you would like to add to your dashboard. You can always come back and switch the block type later if you change your mind.

