

Getting Started

Getting Connected to ThingsGuru

Using the Online Dashboard

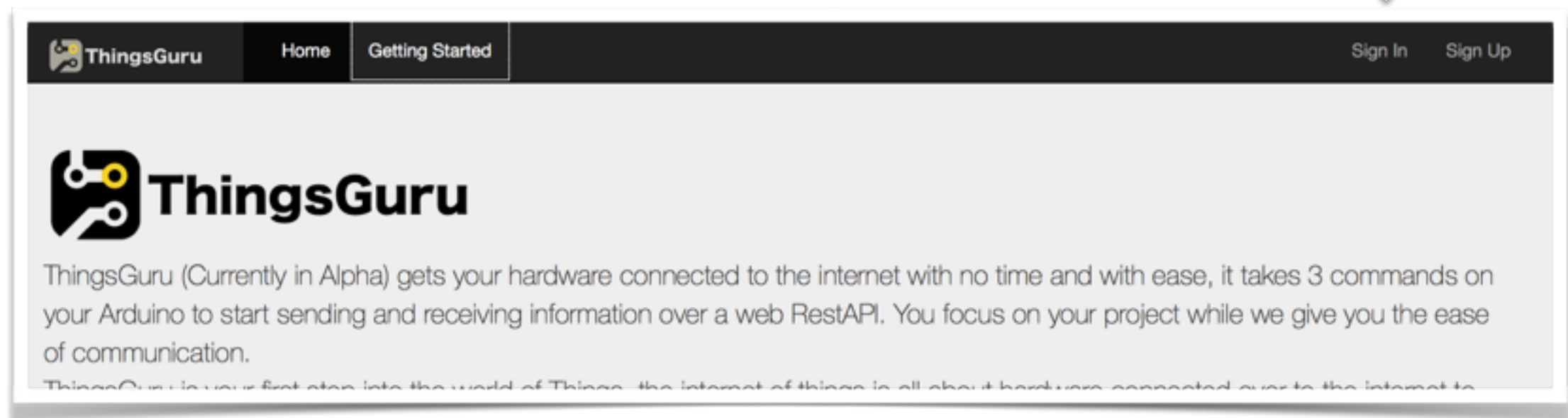
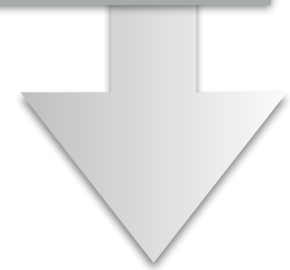
Register a Device Online

1

Go To ThingsGuru.com

2

Sign Into ThingsGuru using your account



Create a New Device

1

At the Dashboard Click Add Device

2

When Device Is Added Click on the Device ID to get Full Info

Your Things List

+ | Add Device

Device ID: jetson-V1Smpjq

Device ID: radiotoxic-NyyTmaq

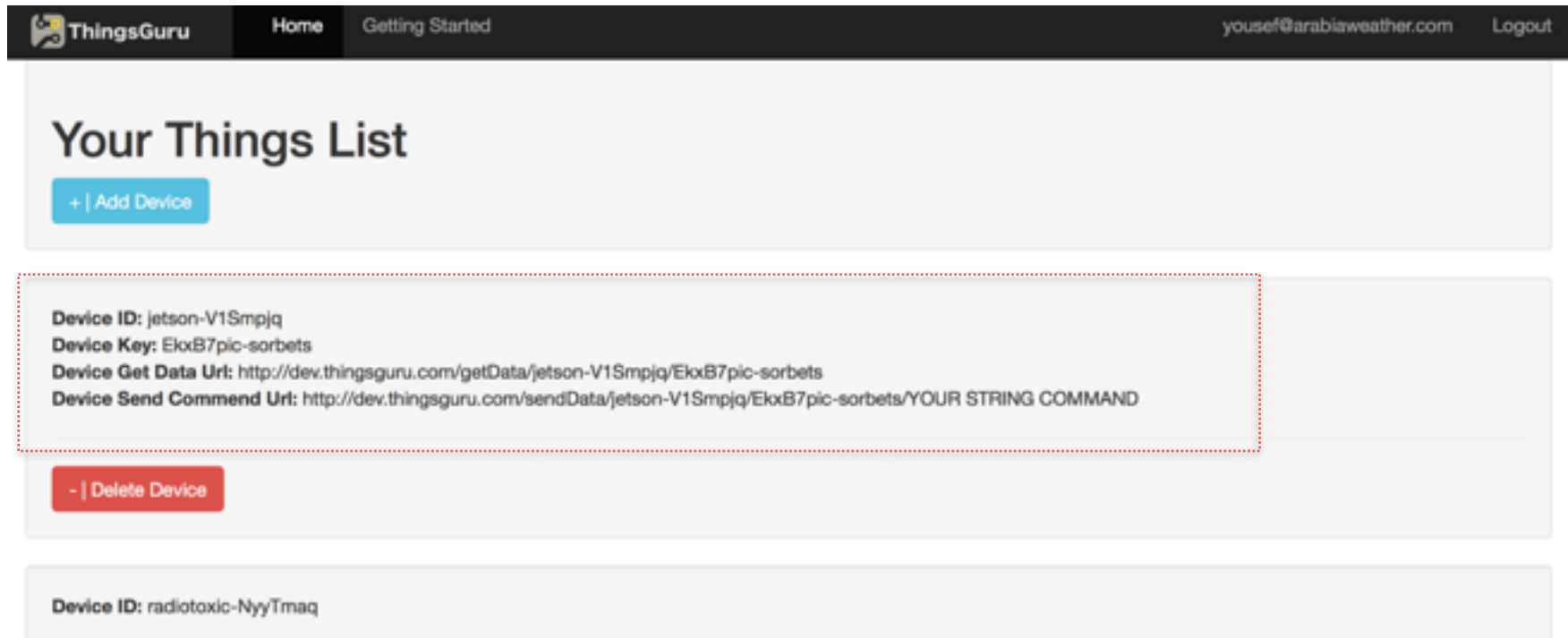
Create a New Device

1

You now have a DeviceID & Key

2

The URLs (REST) are the links to get
The latest data uploaded & To Send Commands



The screenshot shows the ThingsGuru web interface. At the top is a navigation bar with the ThingsGuru logo, 'Home', 'Getting Started', a user email 'yousef@arabiaweather.com', and a 'Logout' link. Below the navigation bar is a section titled 'Your Things List' with a blue '+ | Add Device' button. A red dotted rectangle highlights a device entry with the following details:

- Device ID: jetson-V1Smpjq
- Device Key: EkxB7pic-sorbets
- Device Get Data Url: <http://dev.thingsguru.com/getData/jetson-V1Smpjq/EkxB7pic-sorbets>
- Device Send Command Url: <http://dev.thingsguru.com/sendData/jetson-V1Smpjq/EkxB7pic-sorbets/YOUR STRING COMMAND>

Below the highlighted device is a red '- | Delete Device' button. At the bottom of the list, another device is partially visible with the ID 'radiotoxic-NyyTmaq'.

Getting Uploaded Data (All Keys)

1

Go to the Browser or Any REST URL Consumer

2

Use the URL found in the dashboard “Device Get Data”

3

You will see the last uploaded data as below (JSON)
(10 Seconds Interval) - Timestamp Auto Added



```
{  
  temp: "23.44",  
  date: 1427276120  
}
```

Getting Uploaded Data (Single Key)

1

Go to the Browser or Any REST URL Consumer

2

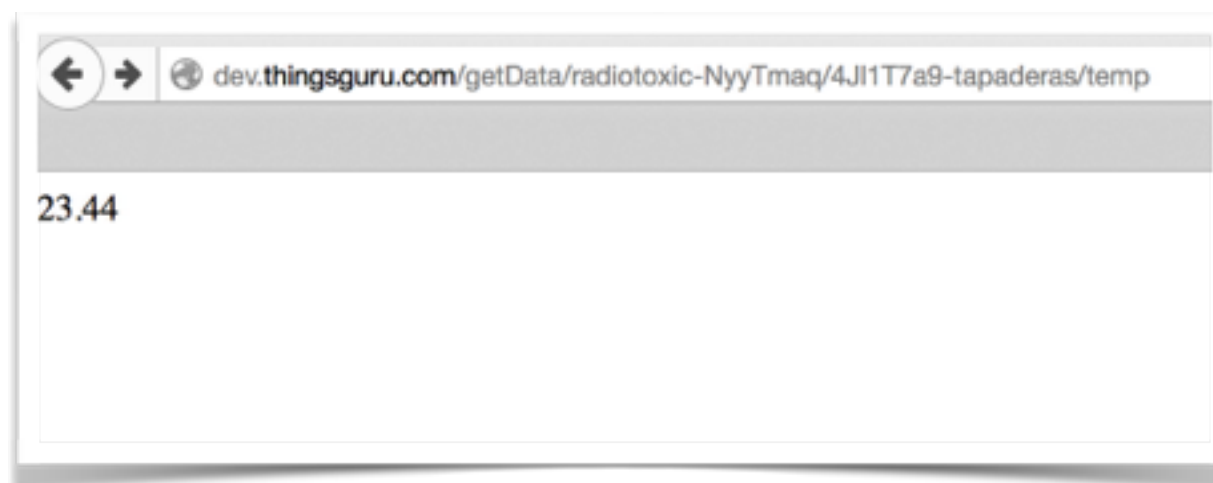
Use the URL found in the dashboard “Device Get Data”

3

Add the required key to the end of the URL ex:
<http://dev.thingsguru.com/getData/radiotoxic-NyyTmaq/4JI1T7a9-tapaderas/temp>

4

You will see the last uploaded key data as below
(String Value -10 Seconds Interval)



Sending a Command

1

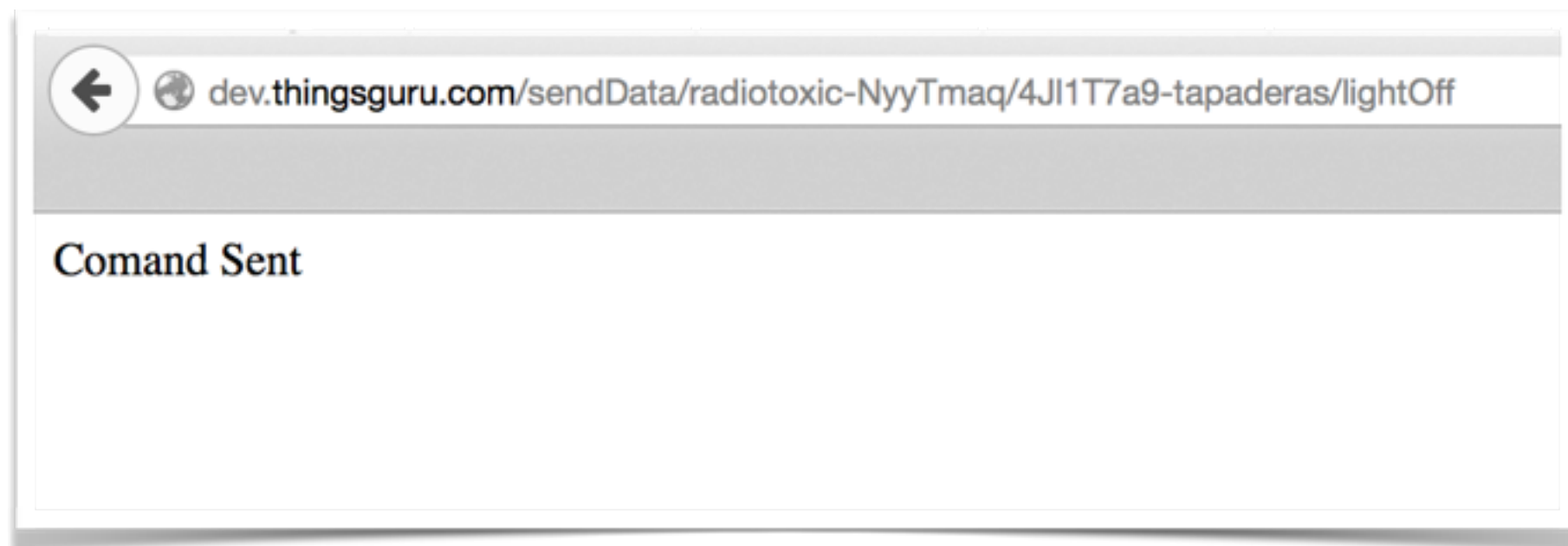
Go to the Browser or Any REST URL Consumer

2

Use the URL found in
the dashboard “Device Send Command”

3

Change “Your String Command” to
your command and Go



Programing over Arduino



Download Client
from **Github**



Download Client
from **Github**

Add ThingsGuru Library

Yun, WiFi or Ethernet Client as usual.

Callback Function for where the commands to go when sent
to the device

Create the ThingsGuru Object

```
ThingsGuruYun
1 #include <SPI.h>
2 #include <YunClient.h>
3 #include <ThingsGuru.h>
4 #include <Console.h>
5
6 YunClient yunClient;
7
8
9 void commands(String msg, String err)
10 {
11   Console.println("Message: "+msg);
12   Console.println("Err: "+err);
13   if(msg == "lightOn\n")
14   {
15     Console.println("ON");
16     digitalWrite(13, HIGH);
17   }
18   if(msg == "lightOff\n")
19   {
20     digitalWrite(13, LOW);
21   }
22 }
23
24 ThingsGuru guru(yunClient, "radiotoxic-NyyTmaq", "4Jl1T7a9-tapaderas", commands);
25
26
27 void setup() {
28   pinMode(13, OUTPUT);
29
30   Bridge.begin();
31 }
```

Apply Guru Loop to keep Alive

```
46 // put your main code here, to run repeatedly:
47   temp = analogRead(0);
48   temp = temp * 0.48828125;
49   String tempStr = String(temp);
50   char tempString[15];
51   tempStr.toCharArray(tempString, 15);
52   guru.addData("temp",tempString);
53   guru.addData("myData","newStringData");
54
55   guru.loop();
56 }
```

Send Data you want as Key Value As Strings
You can add multiple Lines (Key Values)