**Dragino LG01 Quick Setup and How to migrate the gateway from The Things Network V2 to The Things Stack V3**

**Step1: Unpack the gateway and connect to a power source.**

LG01 has an adapter that comes with the gateway package. Connect the adapter to a power source and then connect to the gateway. The gateway will have the power led turns green. If this doesn’t happen, check your power source or try change the power adapter that has the same rating as the one from the package.

**Step2: Accessing LG01 and configure**

**To configure the gateway, you can use the following steps:-**

1. **Connect to LG01 hotspot**

When the gateway boots for the first time , it generates a network with name dragino –xxxxxxx. Use your computer to connect to this network.

**SSID: dragino-xxxxxx**

**Passphrase: dragino+dragino**

When connected, your pc will get an IP address. The IP will be 10.130.1.xxx. The LG01 default IP address will be 10.130.1.1

1. **Connect using Ethernet cable.**

Connect Ethernet from your router to LG01. The cable from router should be connected through port labelled WAN.

LAN WAN 

**Connected another cable from the gateway to your pc**

** LAN Ehernet port **

After the connection, the devices will be in a network and you can access the default IP address of the gateway.

You can also check if your PC is connected by opening your **cmd** windows and input **arp – a**

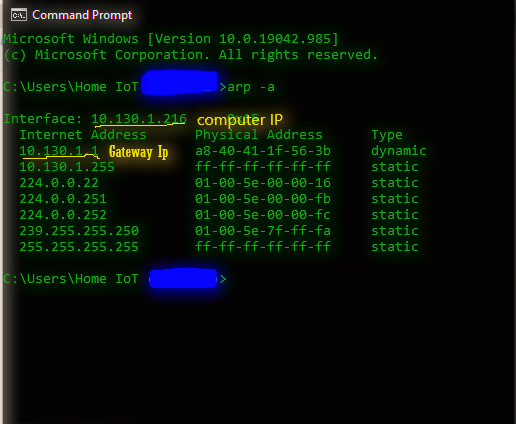
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Figure 1: Getting gateway IP using CMD

**Access the configure web UI**

Open your computer browser and type the gateway IP address

10.130.1.1 and enter to search. You will be directed to a login page

Username: root

Password: dragino

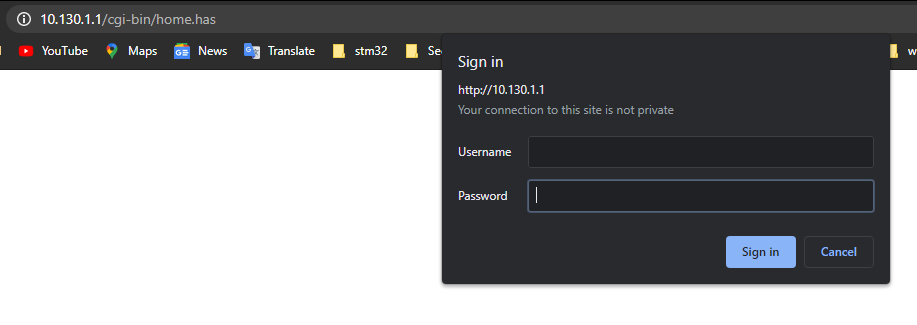


Figure 2: Gateway Login page

After clicking sign in button you will be directed to a configure web UI

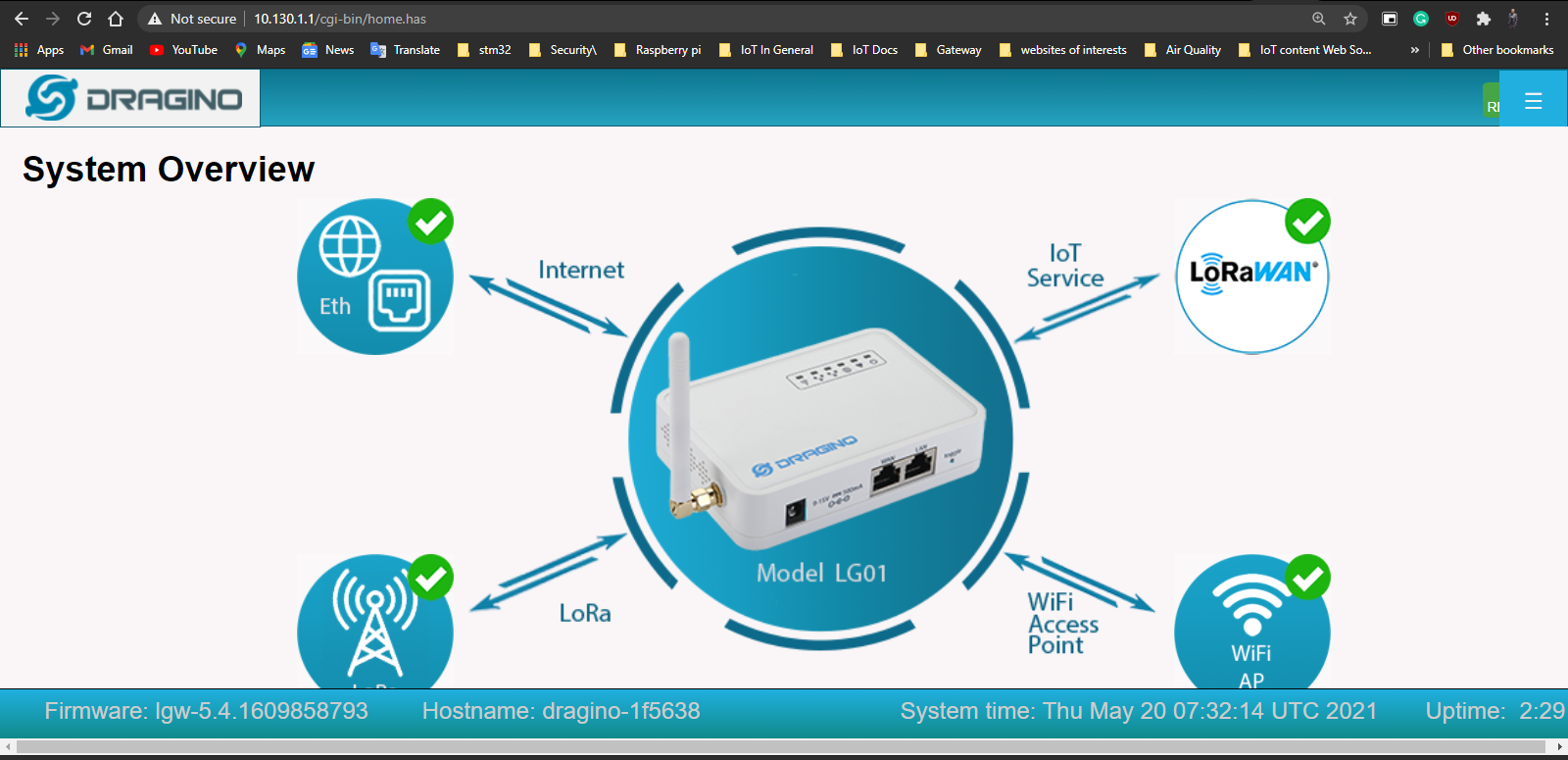


Figure 3: Configuration Web UI

Step3: Connecting to Wi-Fi

Navigate to Network button and hover over it and click Wi-Fi button

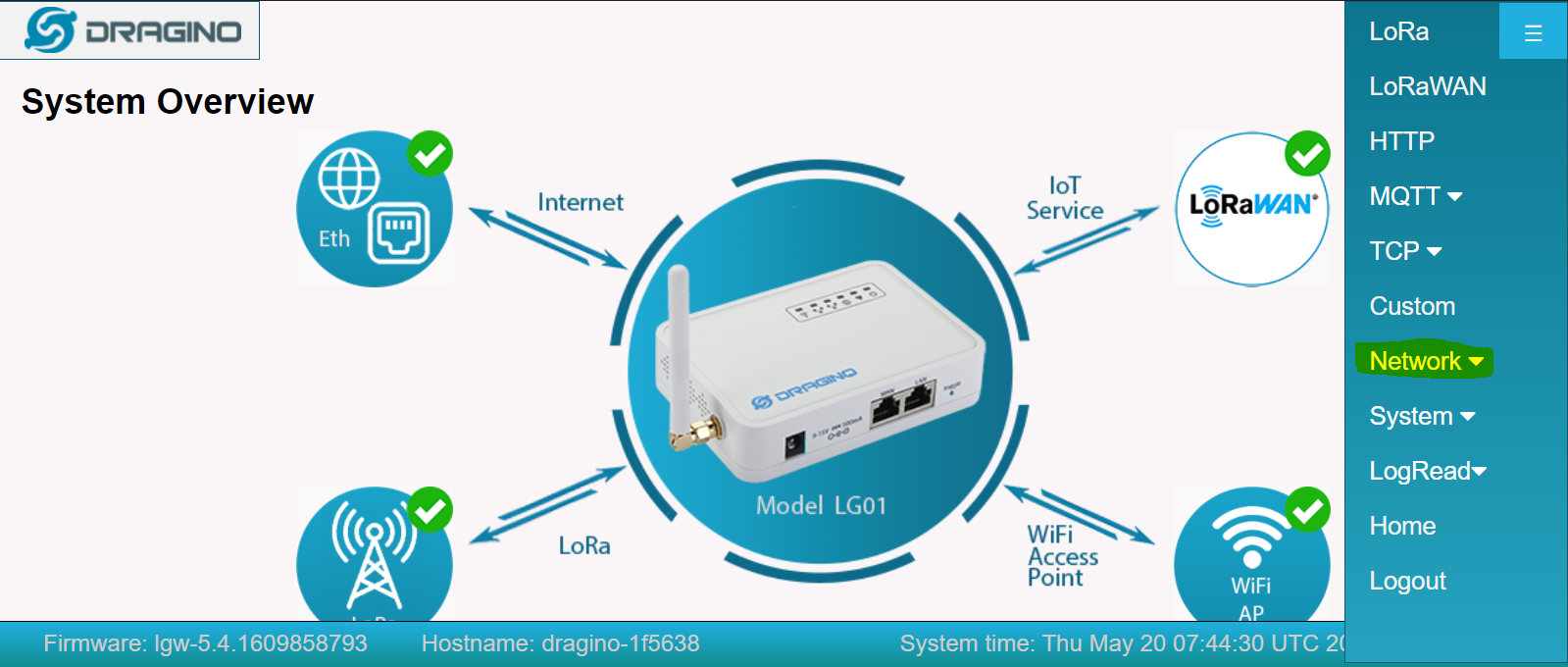


Figure 4: Navigating to Network Tab

When Wi-Fi configuration page opens, Enter your Wifi username and password

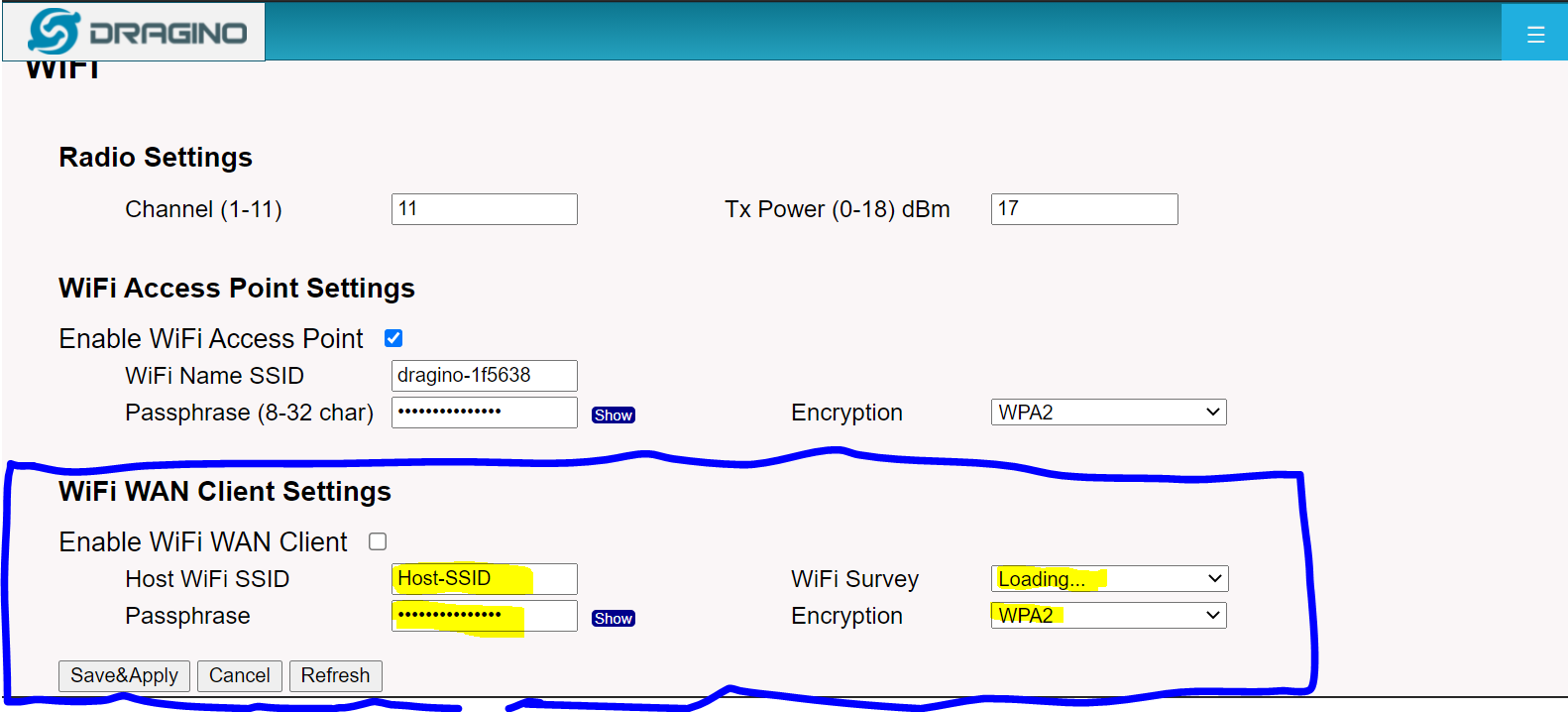


Figure 5 Area to make changes for wifi connectivity

Do the changes here. Do not forget to check the “ Enable WiFi WAN Client” box

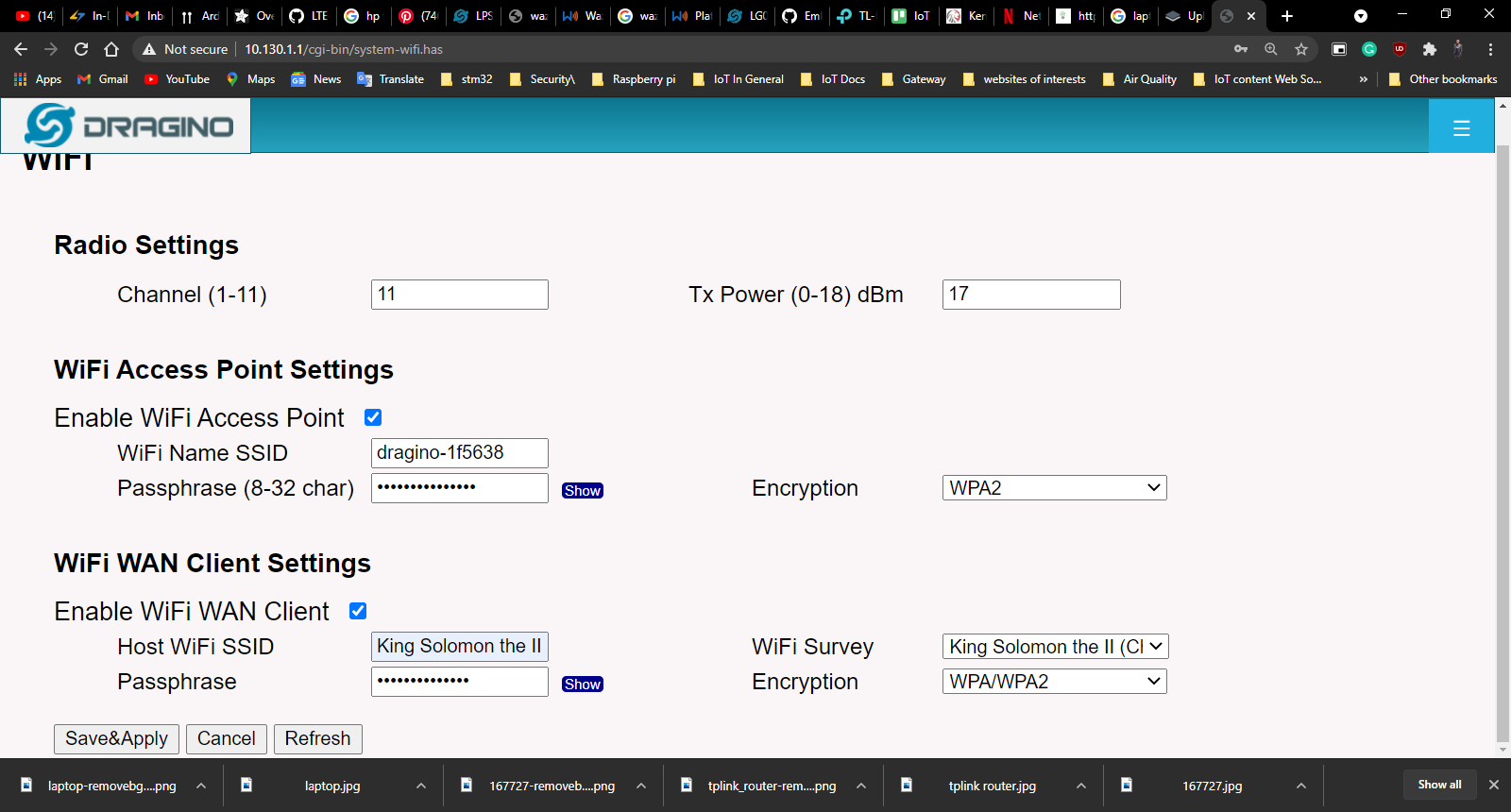


Figure 6: Adding Wifi credentials to gateway

Click save and apply to save the changes.

To Check whether the gateway is connected to your WiFi. Navigate to home page and you will see wifi setup added.



Figure 7 : Image showing Wi-Fi configured successfully

Connect your PC to your wifi network. Hover your curser on the WiFi icon added on the Web UI and you will get the gateway IP address from the local Network.

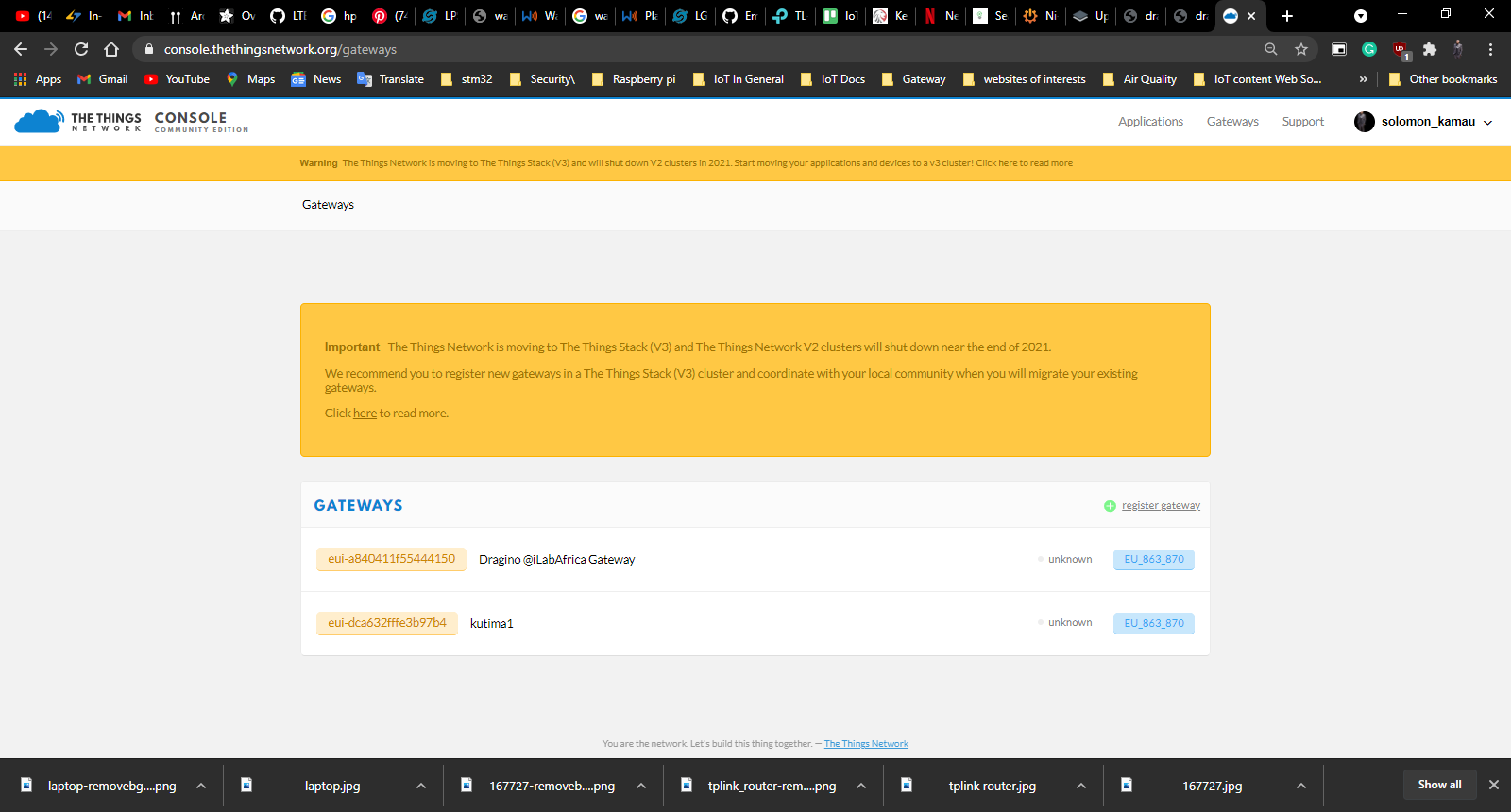
You can access the Configuration Web UI using the IP and port number (8000)

For example 192.168.0.103:8000

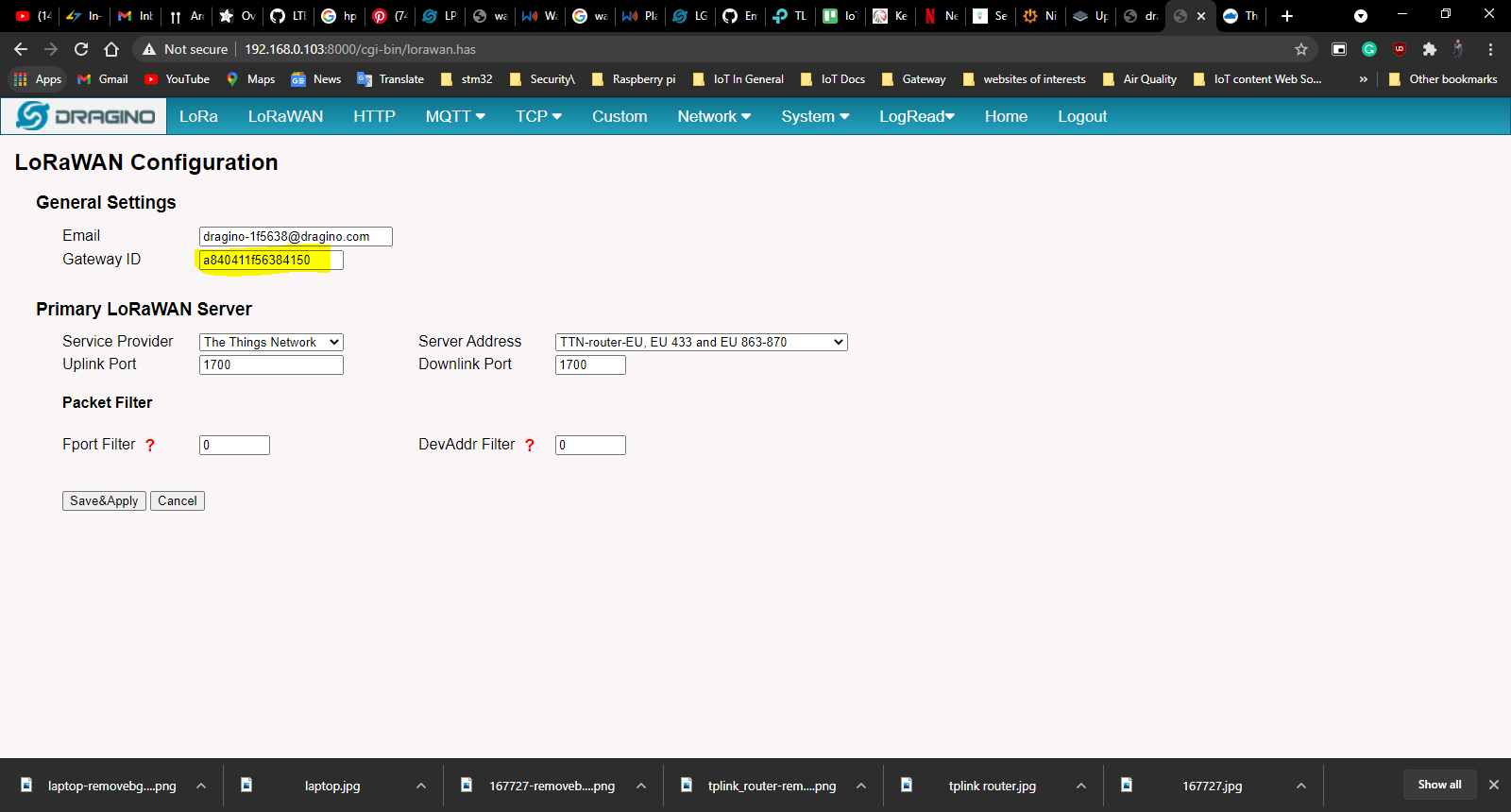
**Register your gateway to The things Network.**

Go to the things network (<https://www.thethingsnetwork.org/>) and login into your account (<https://account.thethingsnetwork.org/users/login>) .

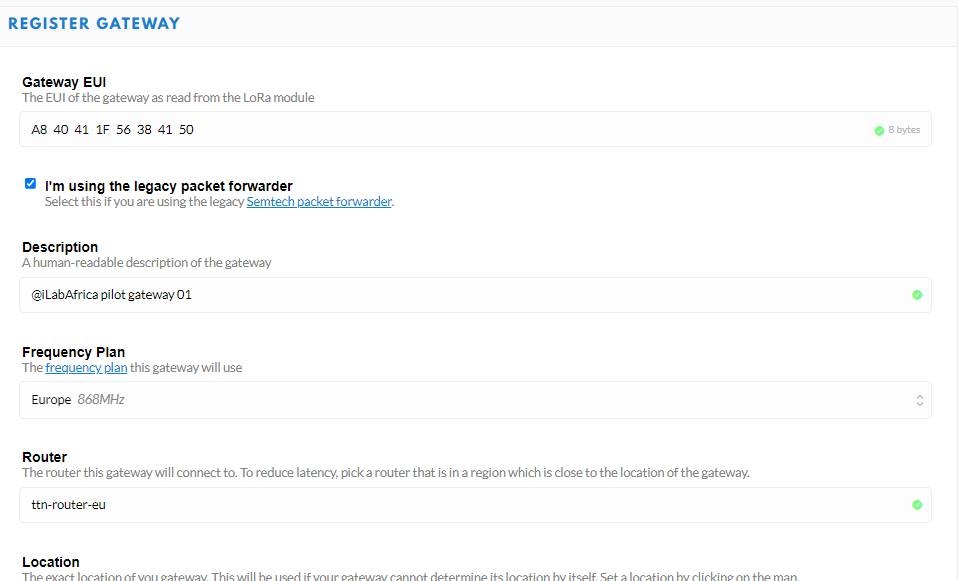
If you do not have an account create one. Use this link to register <https://account.thethingsnetwork.org/register>

After login click console button and navigate to gateways then click link 

Go the LG01 web UI and get the gateway ID. Navigate to LoRaWan Configuration page and copy the ID.

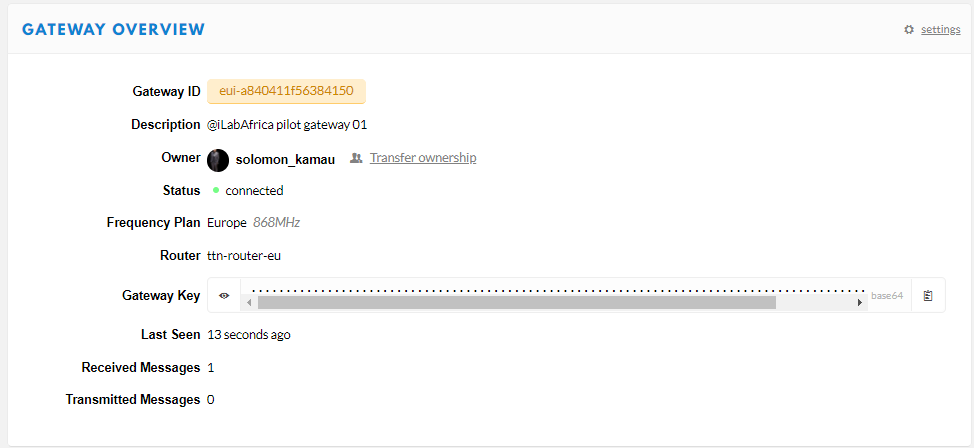


Go to the things Network page and Select “I’m using the legacy packet forwarder and then paste the ID in the field Gateway EUI. Fill in description and select your frequency plan. For my case am using Europe 868MHz.



Save to make changes.

You will be directed to another page. The page shows the status of the gateway in The Things Network

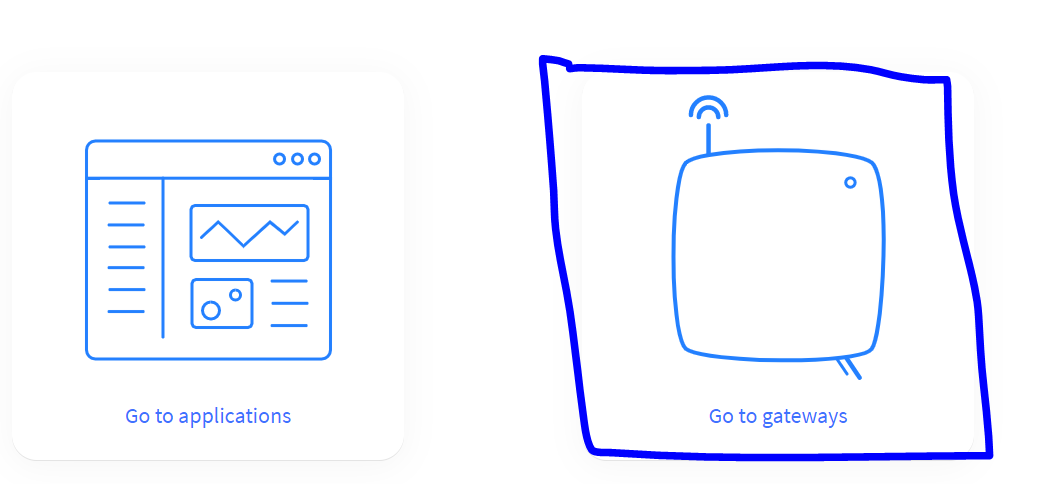


The Connected status show that the gateway has been connected successfully.

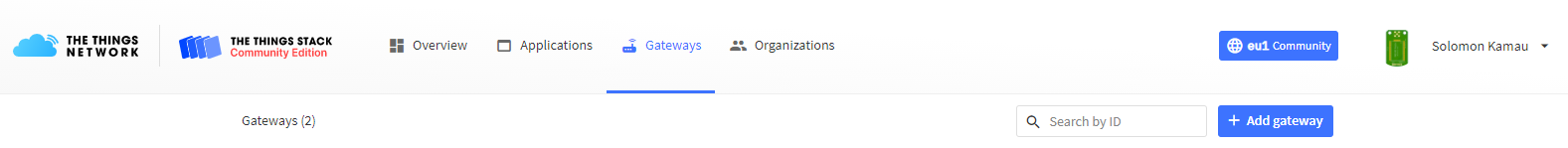
**Migrating the gateway to The Things Stack (v3)**

Since we have used The Things Network (v2) and the servers here are going to be shut down at the end of this year (Year 2021), we have to migrate our gateway to The Things Stack (v3).

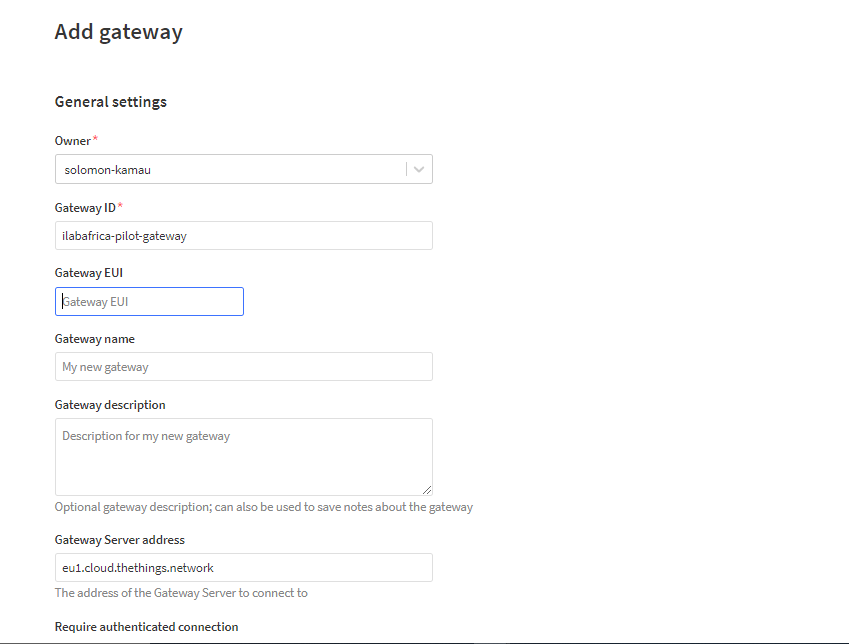
Login to The Things Stack Console account (<https://eu1.cloud.thethings.network/console/>). Click go to gateways



Click add gateway



Fill the form on the new windows. Gateway EUI you can either copy it from The Things Network or key in the Wi-Fi mac address from the bottom of the gateway then add 4150 at the end.



Remember to select your frequency. For my case is am using Europe.

Save to make changes.

You will be directed on a new page. Download the global\_config. Json file

