iHost extension

There are several extensions that can be installed on iHost that allow you to expand its functionality. Below are some extensions that we recommend.

- **Node-RED**
- **eWeLink Smart Home**

Node-RED

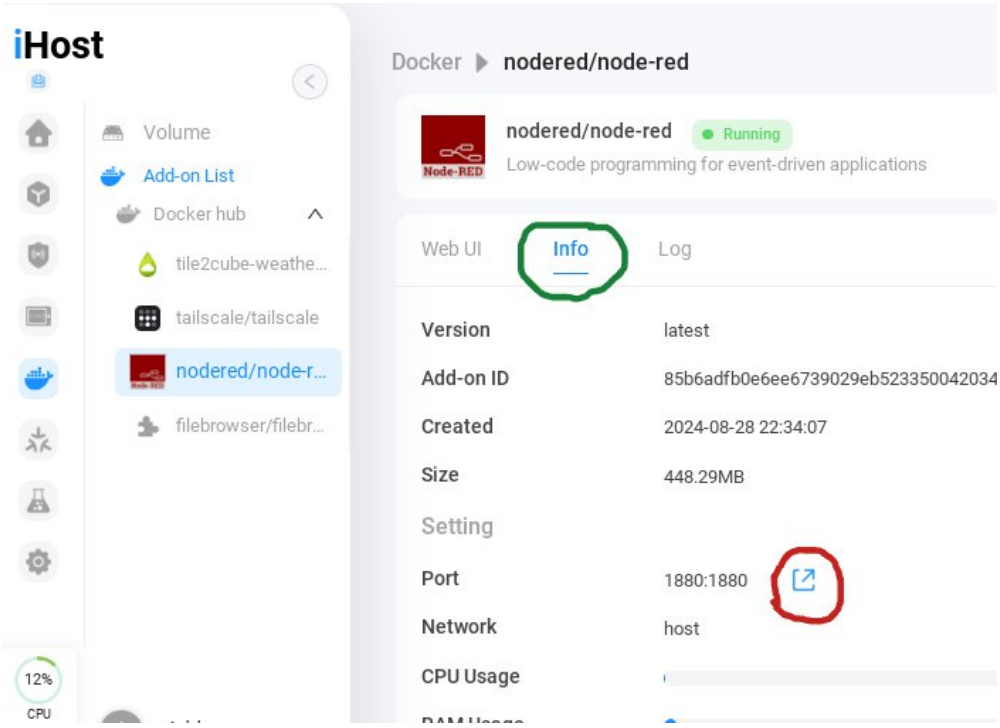
It is an extension that allows you to graphically program some functions not provided by iHost such as sending messages or calls to a cell phone in the event of a certain event.

ATTENTION:

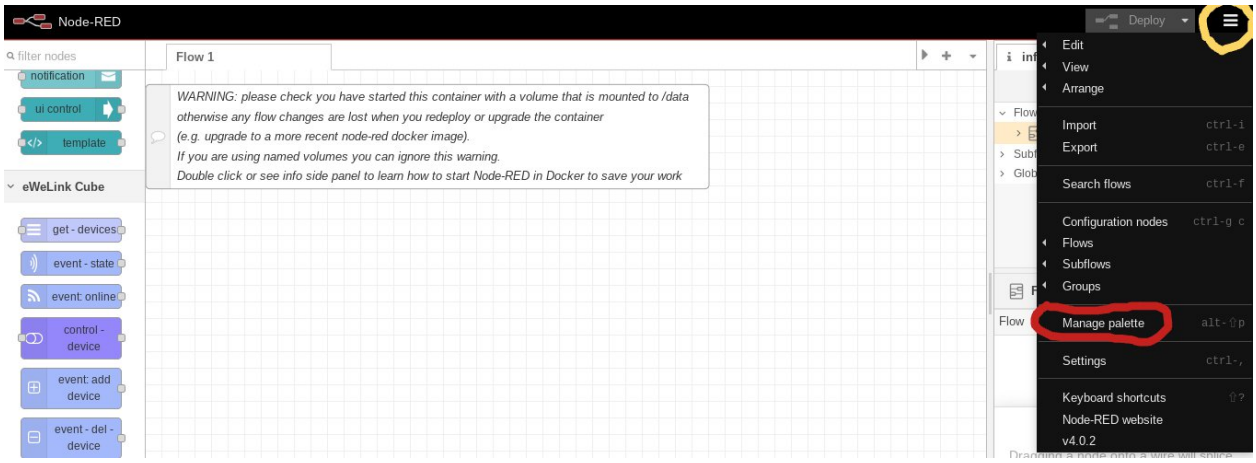
> After installing Node-RED into iHost, into Node-RED you will also need to install:
> **node-red-contrib-ewelink-cube**
> to access the various devices used by iHost.
> **Here** is an explanatory video.
>
> If you want to send **email** you will also need to install:
> **node-red-node-email**
> **Here** is an explanatory video.

To install Node-RED you need to select the **Docker icon** from iHost.

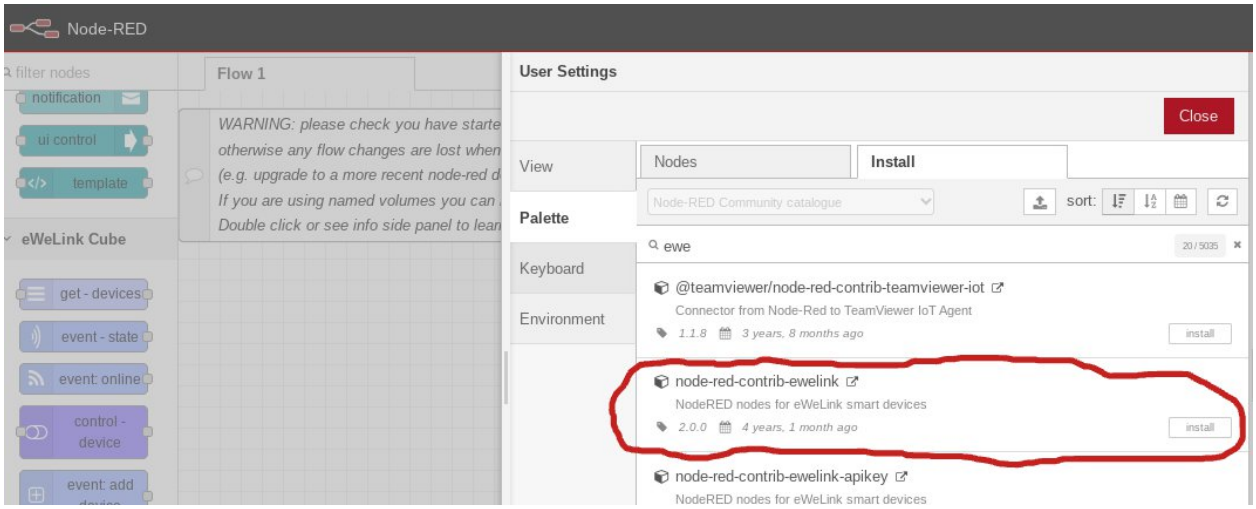
and from the page that appears, install Node-RED using the default parameters.
Once installed, it is convenient, due to the size of the screen, to use Node-RED from a window external to iHost.
To access it, enter Node-RED, select INFO (the icon circled in **green** below) and then click on the icon circled in **red**, highlighted in the image below.



Now open Node-RED and install:
node-red-contrib-ewelink-cube
This is used to see the objects connected to iHost.
To do this, first click on the icon highlighted in **yellow** below and then, from the menu that appears, click on **MANAGE PALETTE** (icon circled in **red** below).

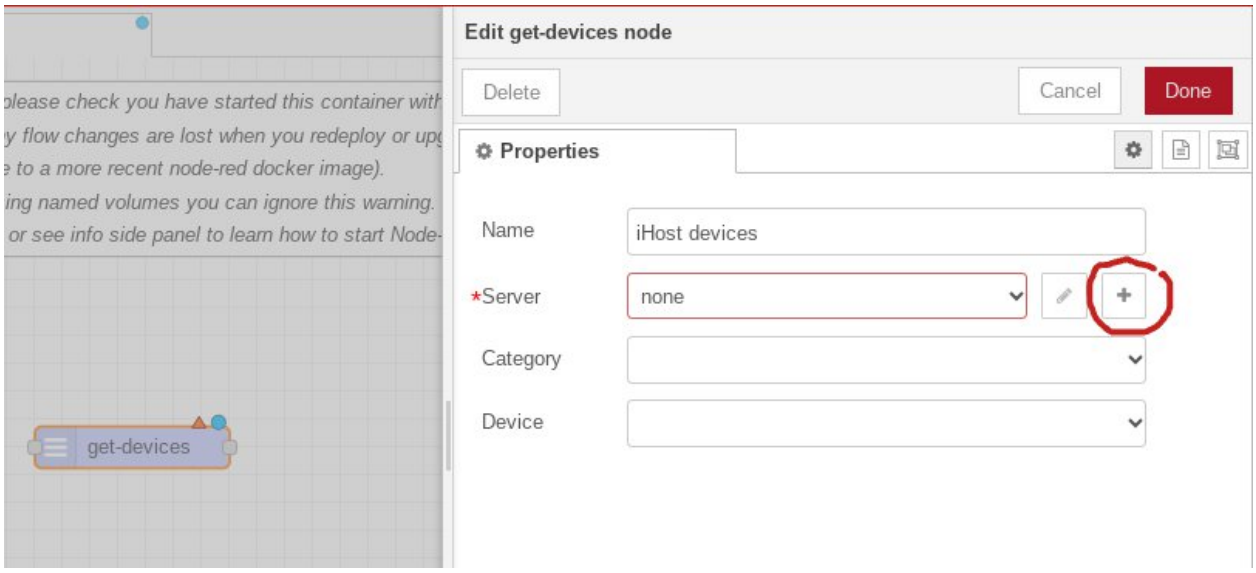


From the window that appears go to INSTALL and search for **eWe**.
Several possible choices will appear, you must choose and install:
node-red-contrib-ewelink-cube



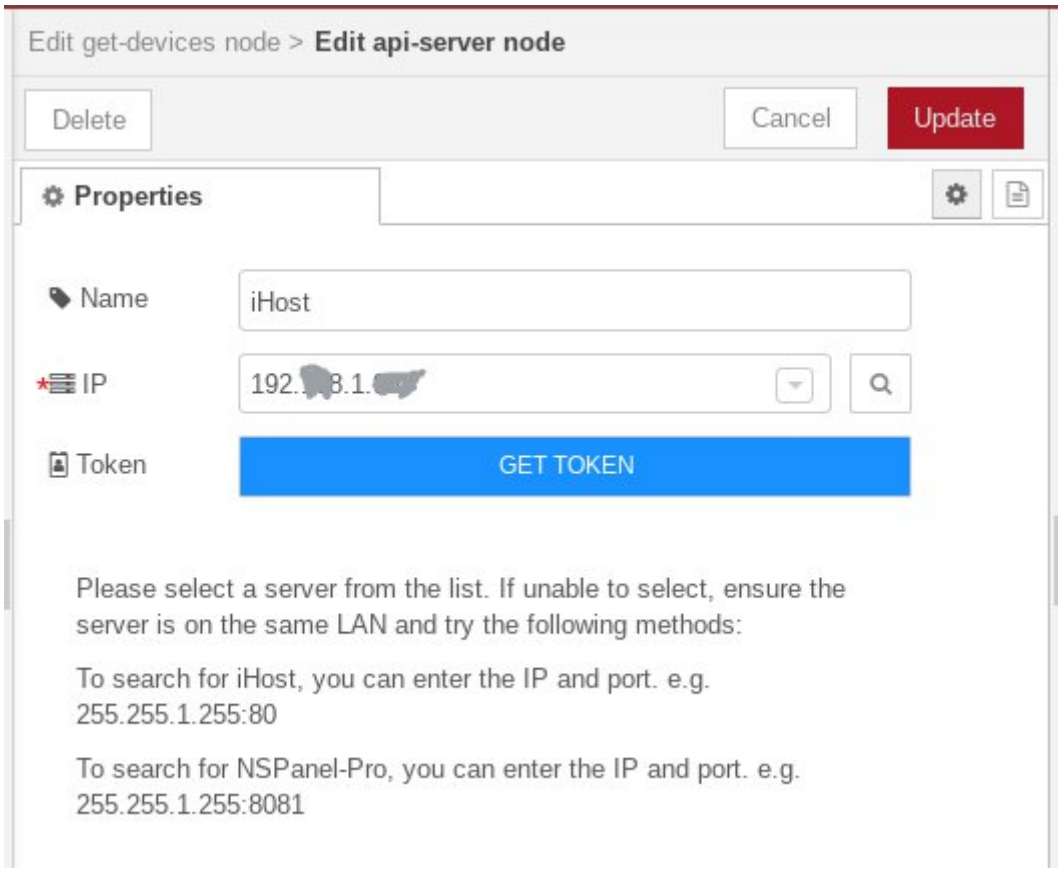
Once this is done, you can upload the devices connected to iHost to Note-RED.

To load the objects connected to iHost you have to drag the icon:
GET-DEVICES
into the squared part of the screen and then double-click on it.
From the window that appears you will have to configure the **SERVER** from which to acquire the devices, to do this click on the **+** that is circled in **red** below.



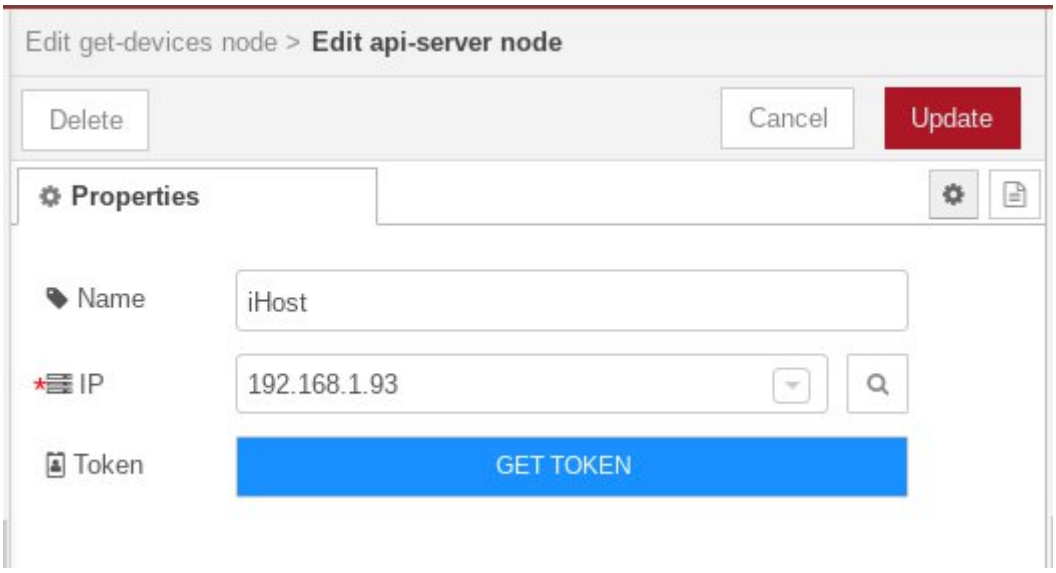
From the page that appears, of which you can see an example below, you will have to fill in the fields:

- **NAME** (this will be the name you gave to your iHost)
- **IP** (your iHost IP)

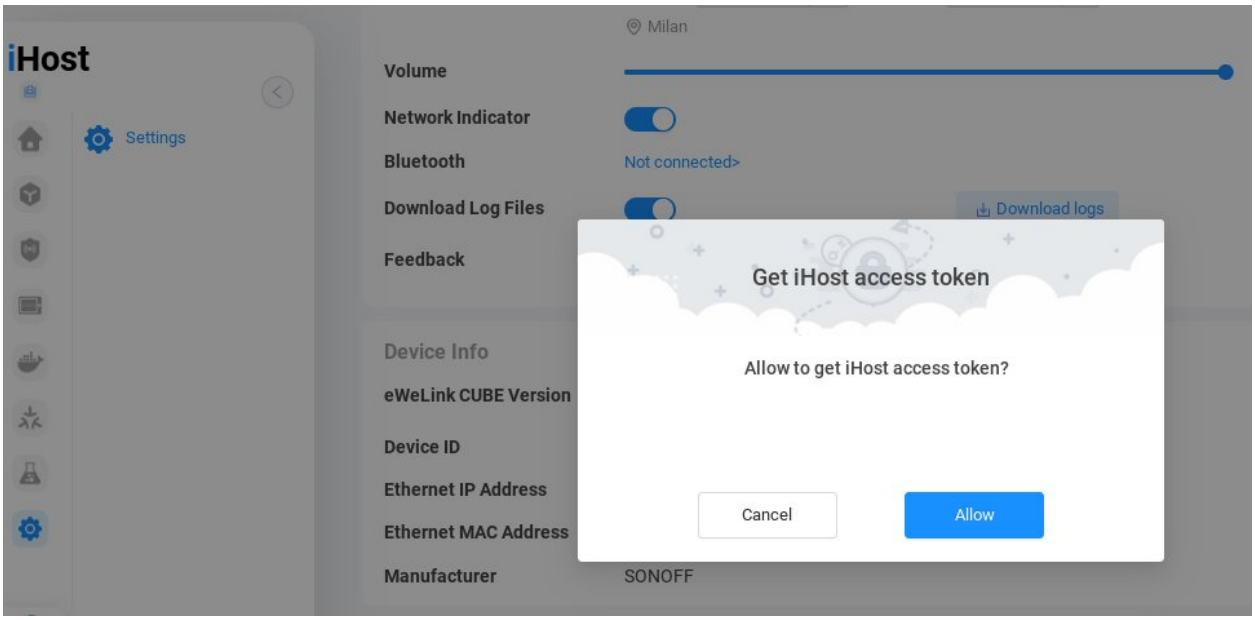


Then press on the magnifying glass icon (on the IP field line) and the writing below should appear.

At this point you will have the word **GET TOKEN** highlighted (see image below), **click on it**.

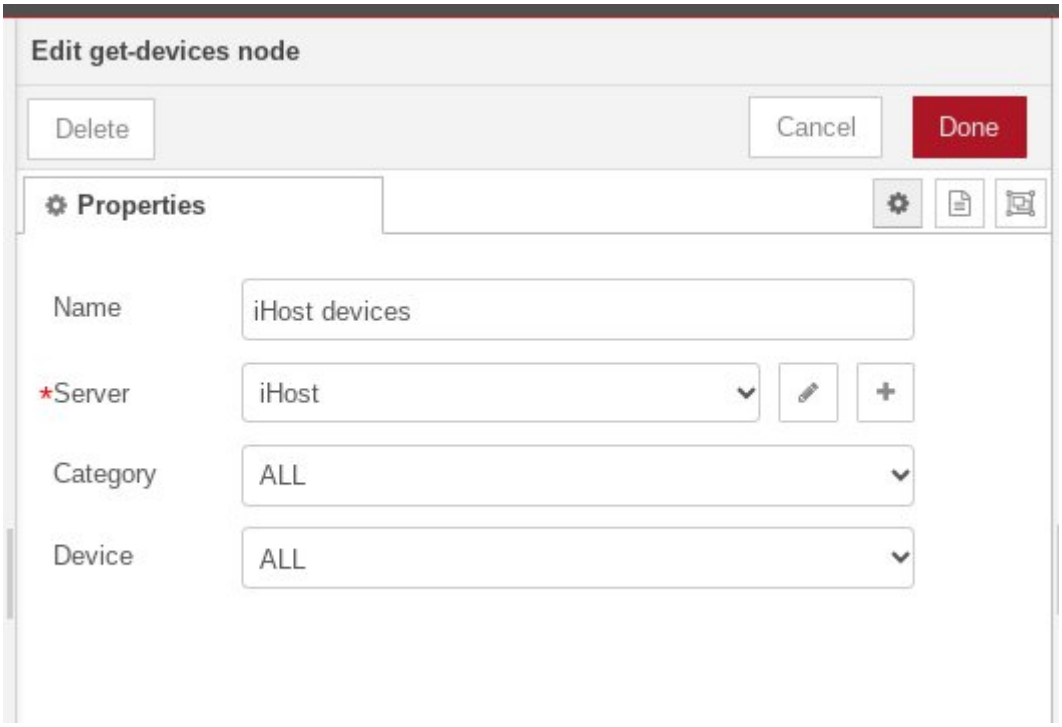


Go **back to your iHost window** and the TOKEN request window will appear (see image below), press **ALLOW**.

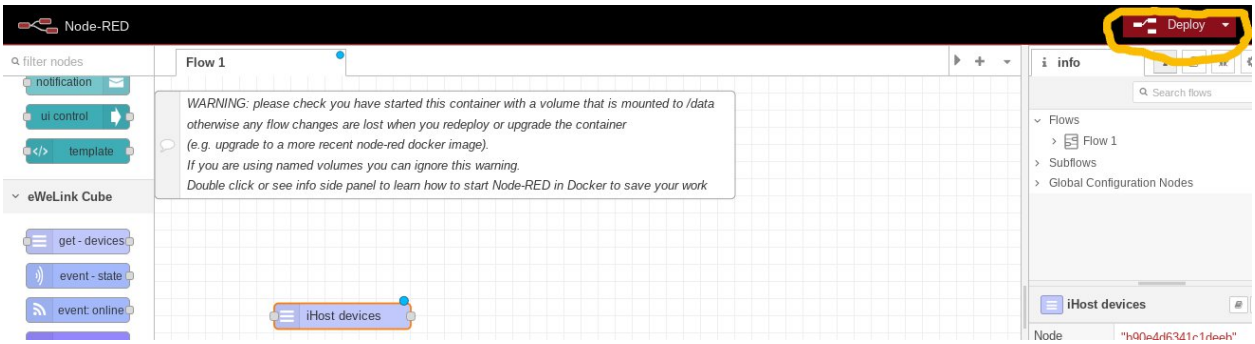


Go back to the Node-RED window and **press UPDATE.**

Now **finish filling out the window as shown below**, then press **DONE**.



Once you return to the main window, remember to press **DEPLOY**, see image below.



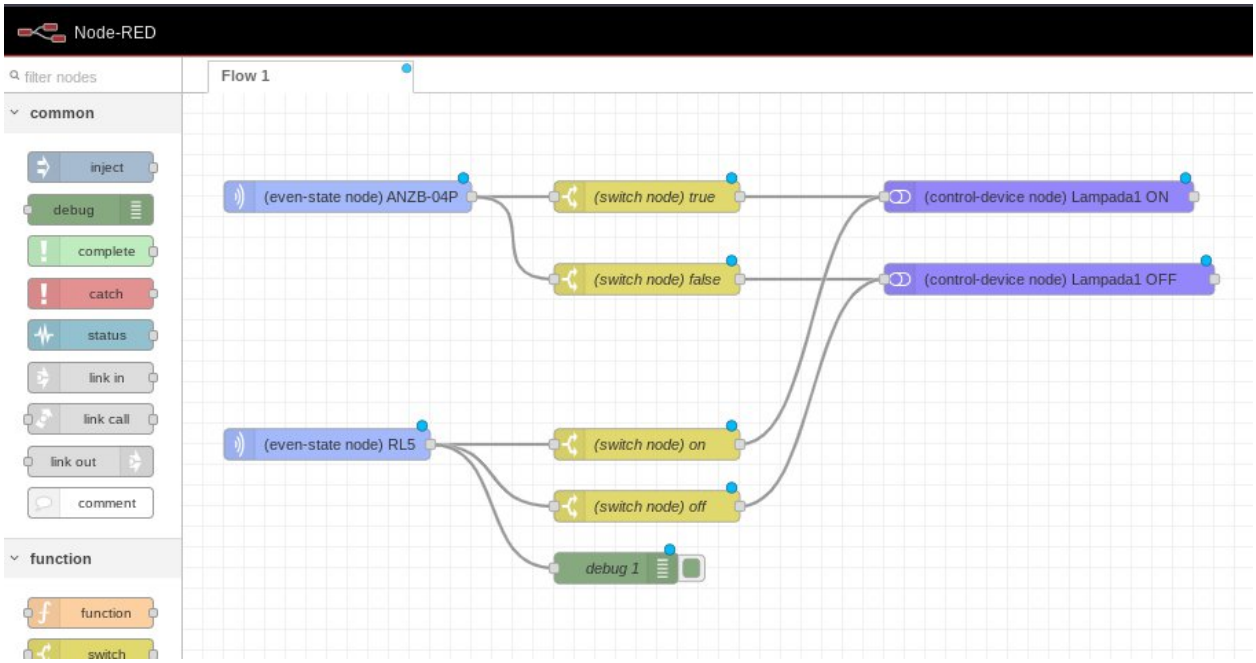
If you have come this far, it means that your Node-RED is working perfectly on iHost and so now let's create a concrete automation with the kit below:

- **Door/Window Contact** SonOff **SNZB-04P**
- **Relay** SonOff **MINI**
- **Bulb** **Osram Smart+** (that are compatible with iHost)

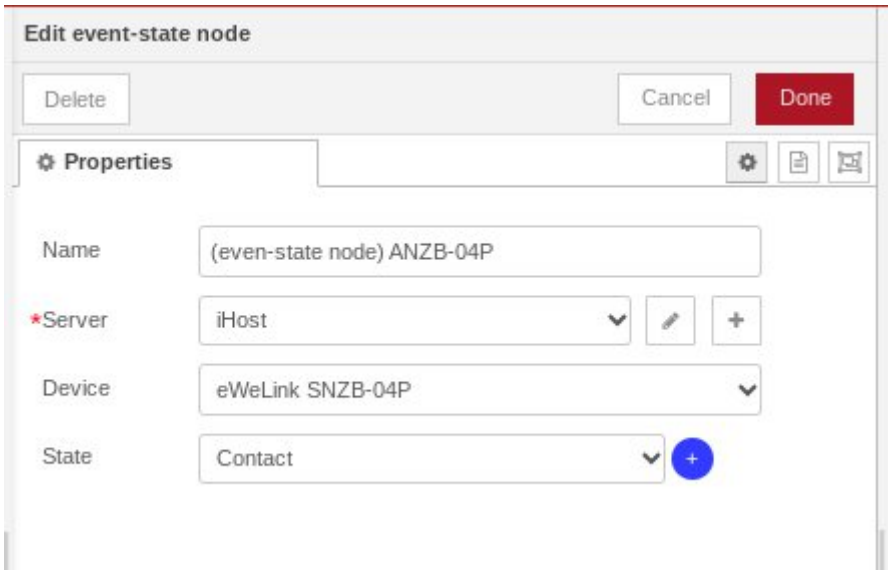
What we will do is turn on/off the light bulb when the Door/Window Contact opens/closes and similarly when the switch that we will connect to the Relay opens/closes (for details see here).

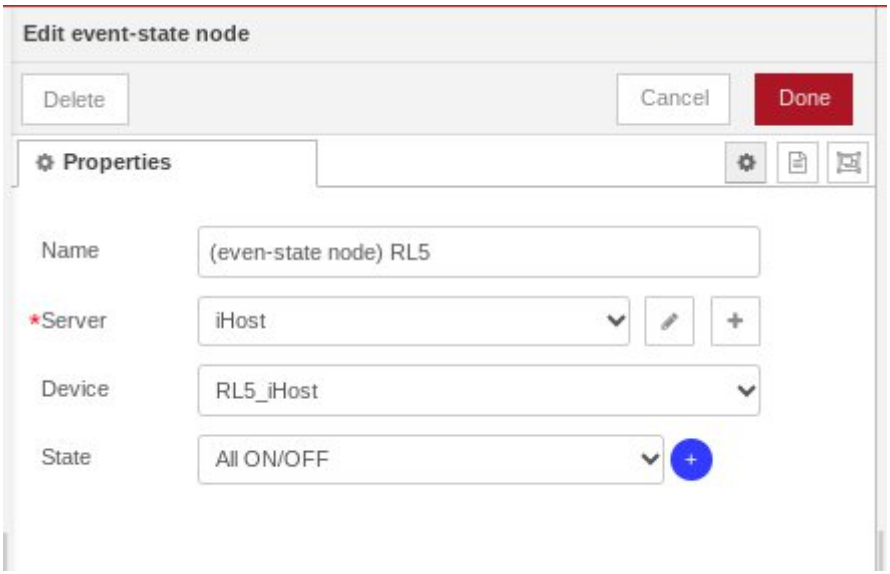
Below is the image of the finished automation, between the brackets (...) there is the name of the function used which I summarize:

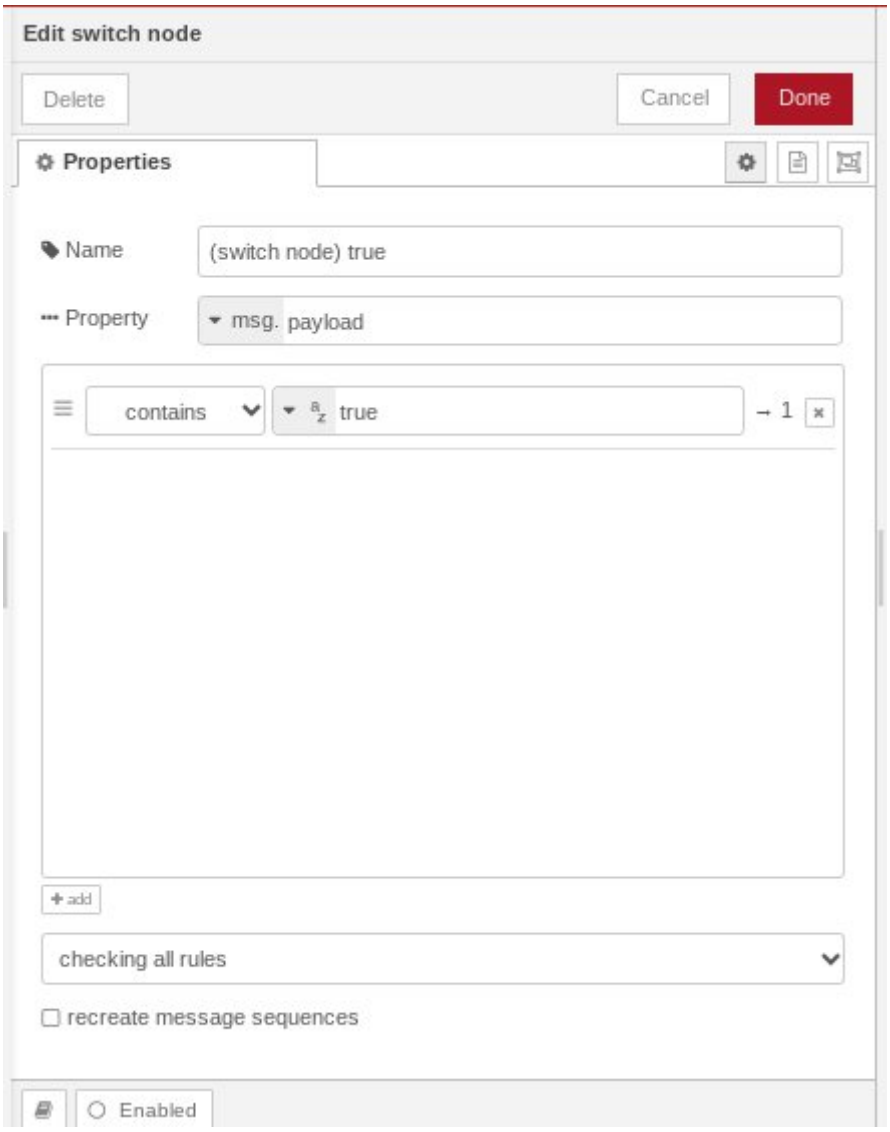
- **even-state node**
- **switch node**
- **control-device node**
- **debug** It is optional and depending on where it has been positioned it shows the messages of the switch connected to the relay

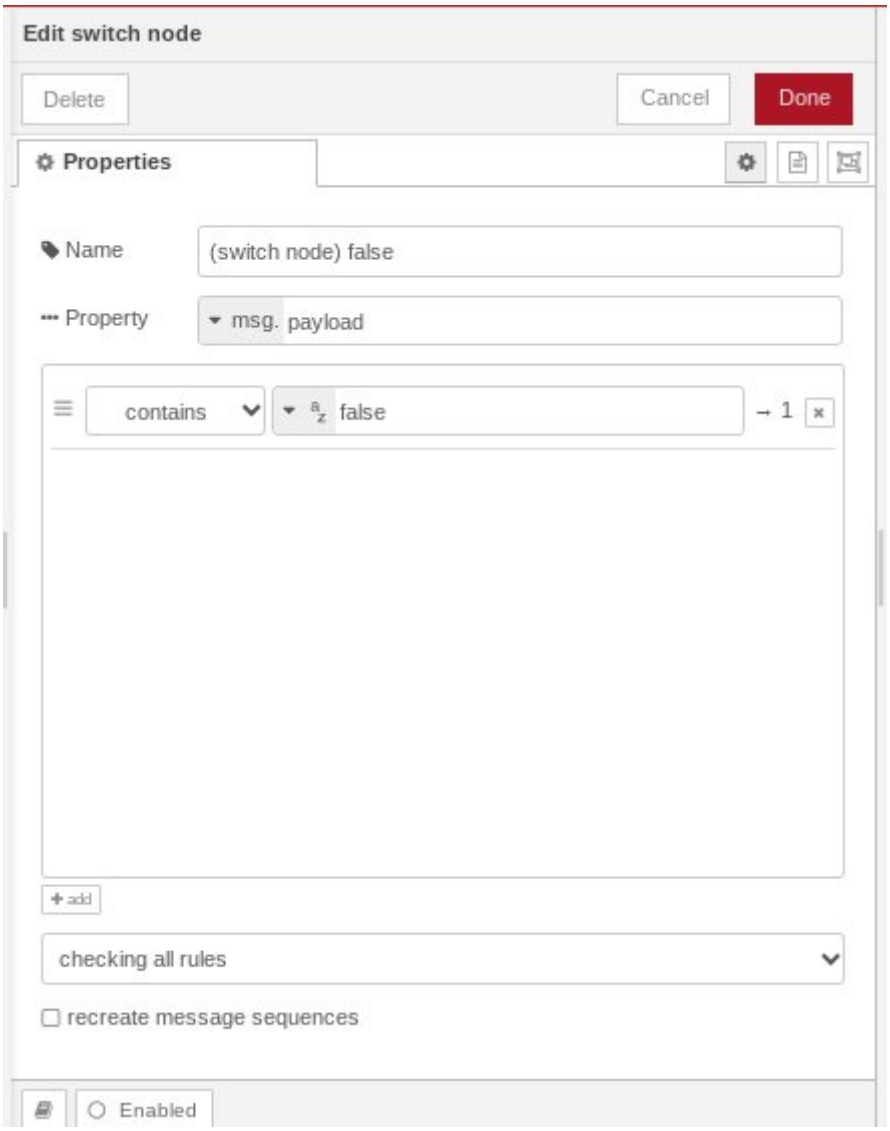


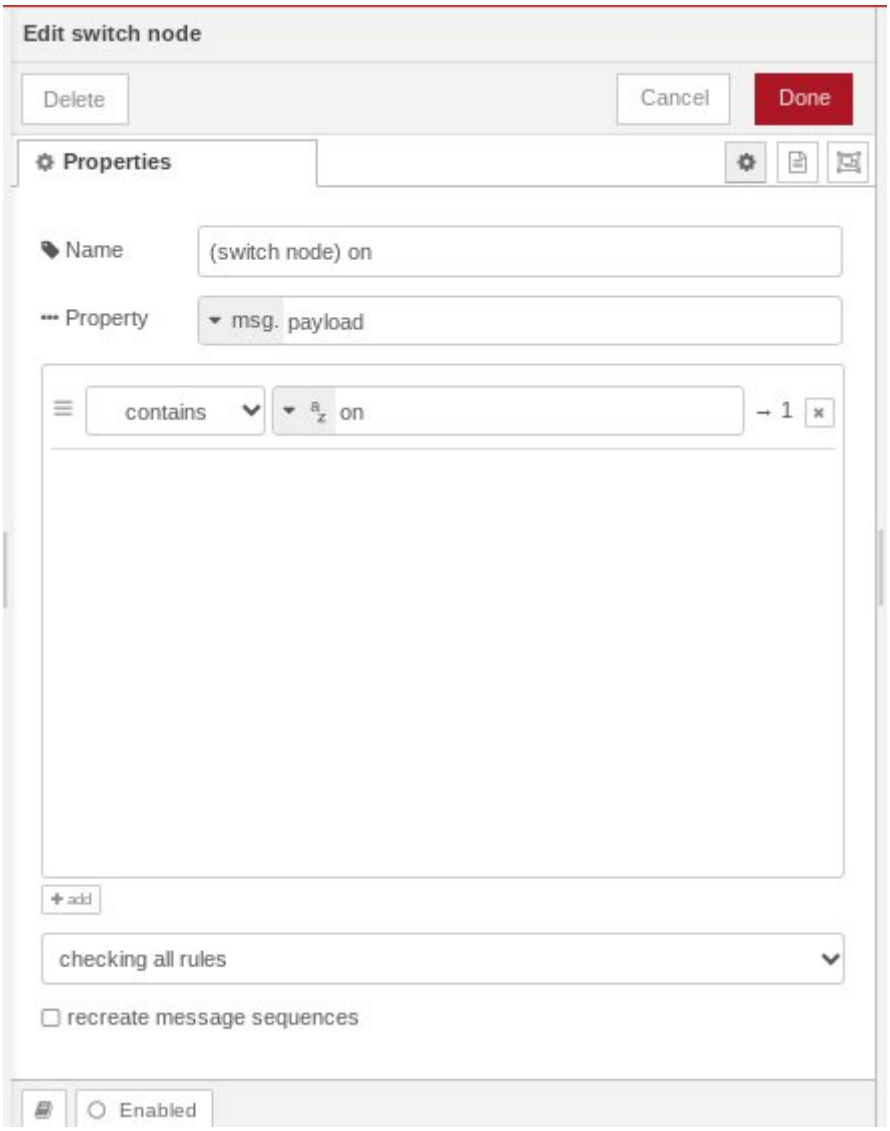
Below are the various parts compiled according to the names we used.



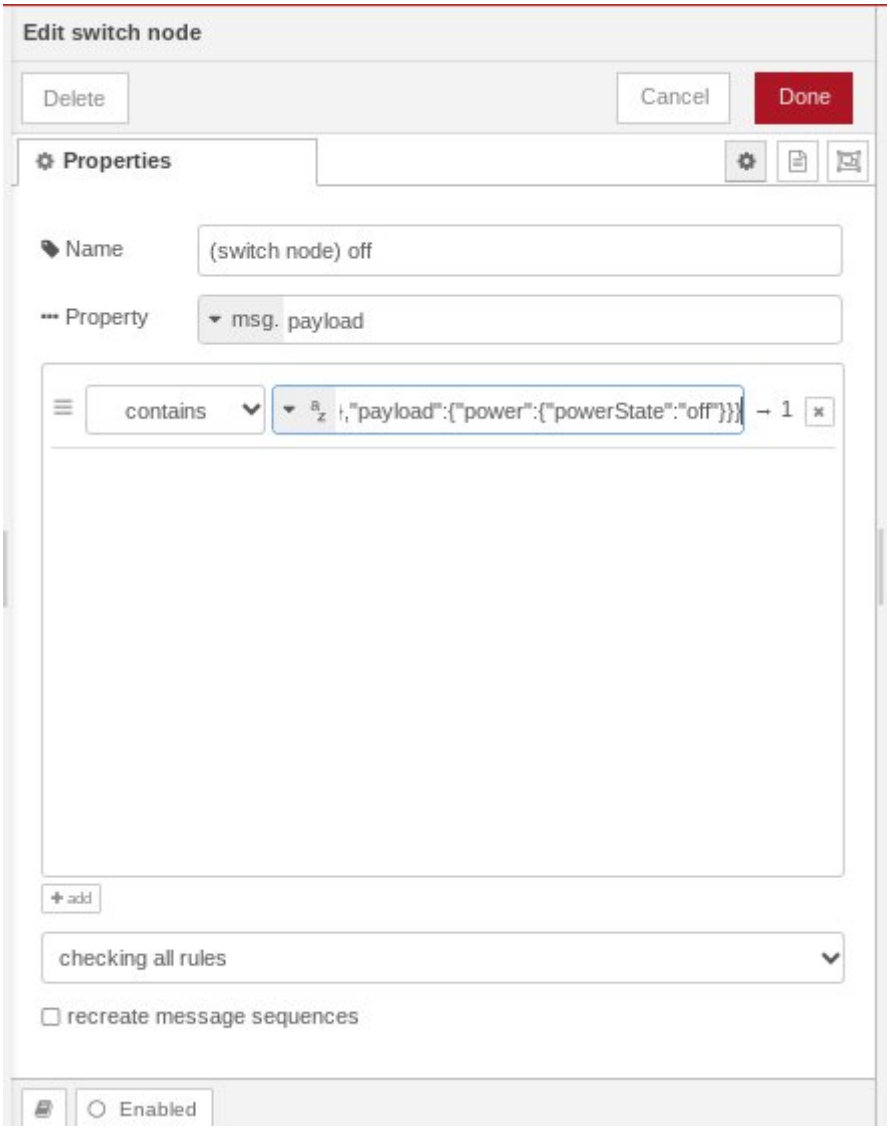

Edit event-state node
Delete
Cancel
Done
Properties
Name
(even-state node) RL5
*Server
iHost
Device
RL5_iHost
State
All ON/OFF


Edit switch node
Delete
Cancel
Done
Properties
Name
(switch node) true
Property
msg.
payload
contains
true
1
add
checking all rules
recreate message sequences
Enabled

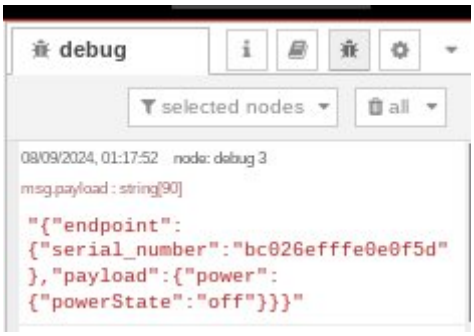

Edit switch node
Delete
Cancel
Done
Properties
Name
(switch node) false
Property
msg.
payload
contains
false
1
add
checking all rules
recreate message sequences
Enabled


Edit switch node
Delete
Cancel
Done
Properties
Name
(switch node) on
Property
msg.
payload
contains
on
1
add
checking all rules
recreate message sequences
Enabled

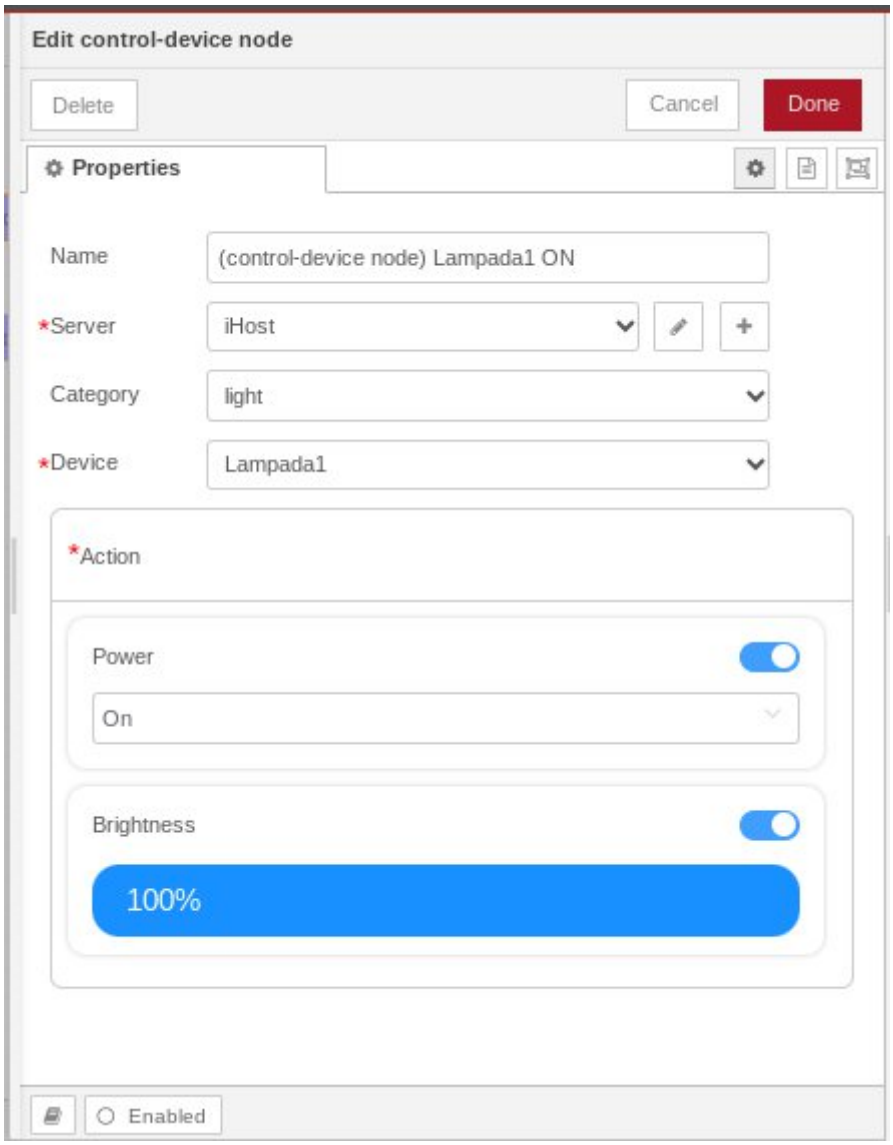
The window below is similar to the previous ones but, here we show how to insert the entire message that the relay returns when it is OFF.
We see this message in the **debug window**.

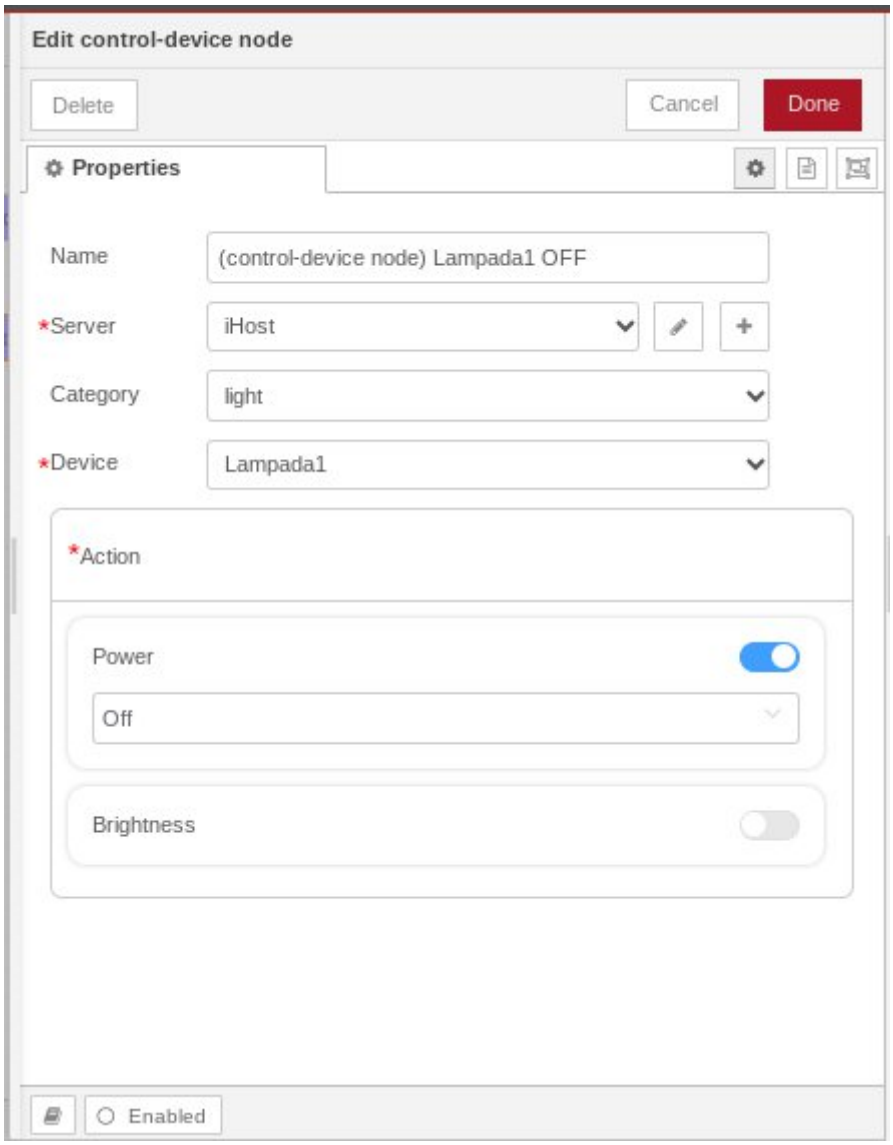


Debug window:



By going to the message, the icon appears that allows us to copy it.


Edit control-device node
Delete
Cancel
Done
Properties
Name
(control-device node) Lampada1 ON
*Server
iHost
Category
light
*Device
Lampada1
*Action
Power
On
Brightness
100%
Enabled



Here and **here** are some tutorials in English.
Qui e **qui** vi sono dei tutorial in Inglese.

Click ***here*** to go to the beginning of the document.

eWeLink Smart Home

If it is not already installed, you must install it to have access to the SonOff objects functionality. The installation procedure is the same as described for Node-RED.

Click ***here*** to go to the beginning of the document.