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What is the Sdomotica Gateway

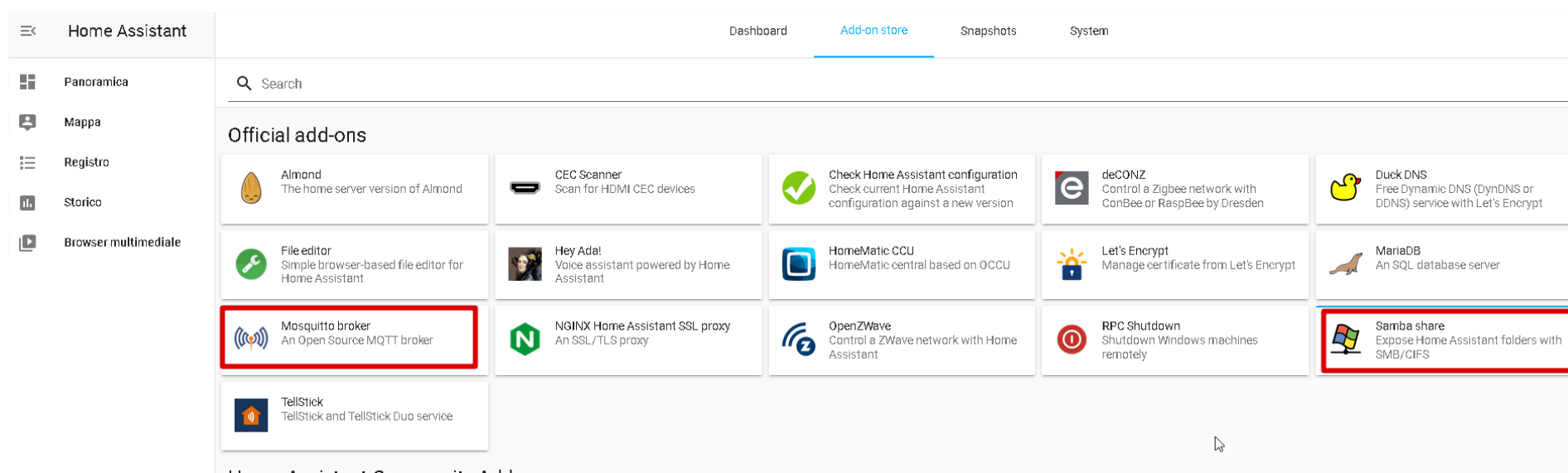
Sdomotica Gateway is Hass.io Add-on runs only a Raspberry Pi which, in combination with a Gateway Bticino/Legrand already present in your system, allows you to integrate and control MyHome automation system with a series of other software and third-party components.

Fundamentally, Sdomotica Gateway translates home automation commands into MQTT messages and is a builder of Home Assistant package specifically for BTicino/Legrand items.

[Please follow all the steps to install and configure add-on, don't jump any step.](#)

Sdomotica need for communicate with Hassio, a broker MQTT and for file transfer Samba for edit configuration file and upload Sdomotica package

Please install and configure these (Mosquito broker and Samba Share)



These are the configurations to do into the addons

Mosquitto

```
1 logins:
2   - username: sdomotica
3     password: sdomotica
4 anonymous: true
5 customize:
6   active: false
7   folder: mosquitto
8   certfile: fullchain.pem
9   keyfile: privkey.pem
10  require_certificate: false
11
```

```
logins:
  - username: sdomotica
    password: sdomotica
anonymous: true
customize:
  active: false
  folder: mosquitto
certfile: fullchain.pem
keyfile: privkey.pem
require_certificate: false
```

Samba

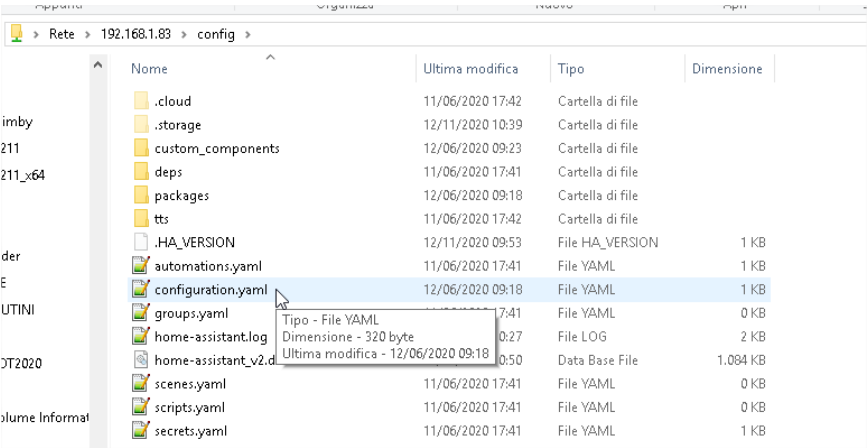
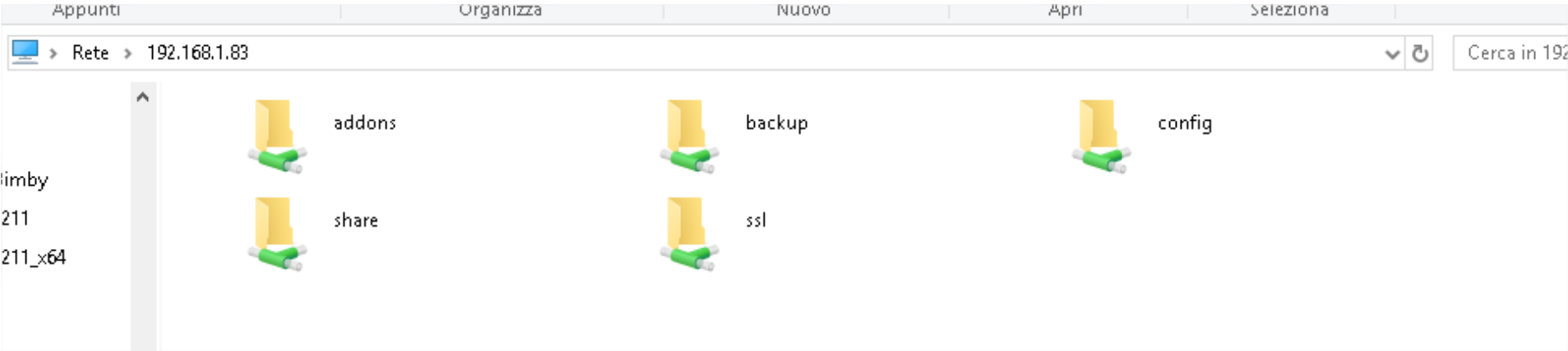
```
1 workgroup: WORKGROUP
2 username: pi
3 password: sdomotica
4 interface: ''
5 allow_hosts:
6   - 10.0.0.0/8
7   - 172.16.0.0/12
8   - 192.168.1.0/16
9   - 'fe80::/10'
10 veto_files:
11   - ._
12   - .DS_Store
13   - Thumbs.db
14   - icon?
15   - .Trash
16 compatibility_mode: true
17
```

Please put your part of IP address into.
For Example, if your Raspberry has this IP
192.168.1.83 put in configuration 192.168.1.0/16

Please check all of other parameters as the above example

Home Assistant Configuration

Open configuration.yaml and edit as below.

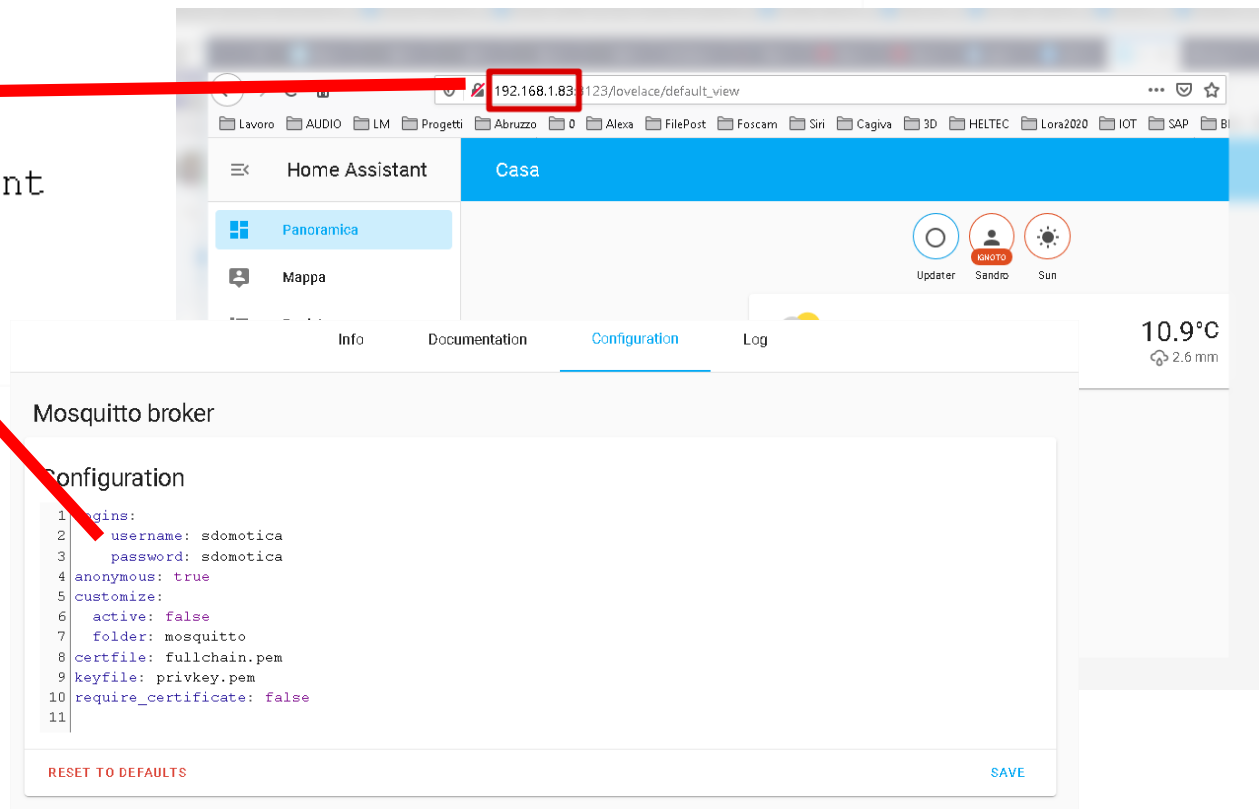


```
homeassistant:  
  packages: !include_dir_named packages  
  
# Configure a default setup of Home Assistant (frontend, api, etc)  
default_config:  
  
mqtt:  
  broker: 192.168.1.83  
  discovery: true  
  discovery_prefix: homeassistant  
  username: sdomotica  
  password: sdomotica  
  ....
```

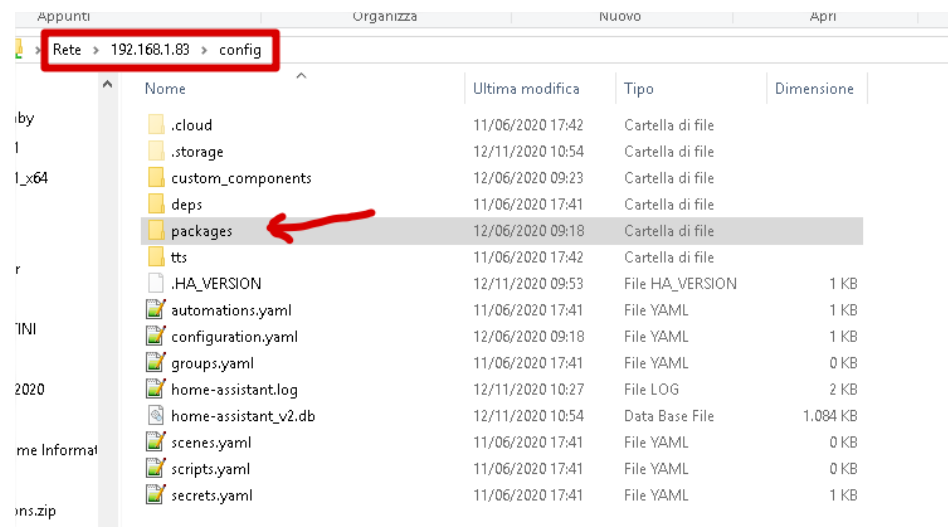
Please indicate in mqtt broker the IP of your raspberry

And username and password

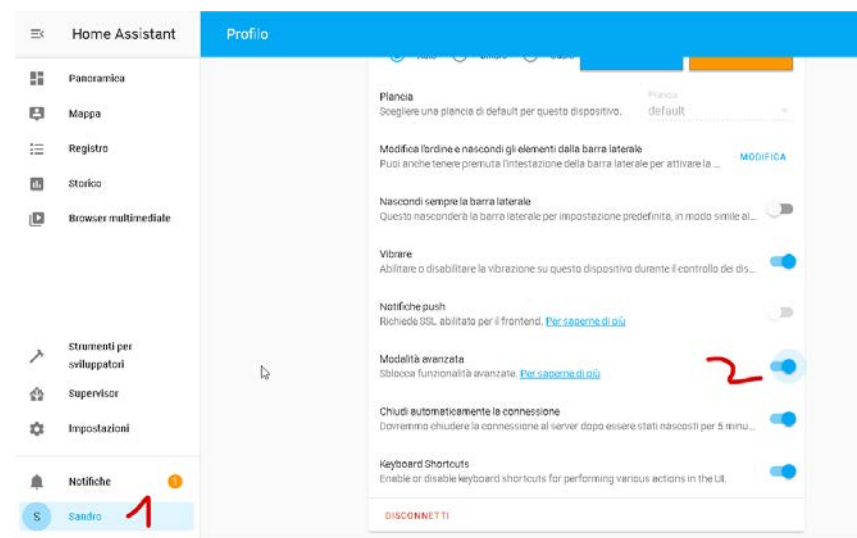
Save



Create a folder if not exist in config folder named **packages**



Enable your user to advanced



Check the configuration before restart

The screenshot displays the Home Assistant web interface. On the left, the sidebar menu is visible with the 'Impostazioni' (Settings) option highlighted. A red arrow points to the 'Notifiche' (Notifications) section, and a red number '2' is placed next to the 'Impostazioni' menu item. The main content area shows the 'Controlli del Server' (Server Controls) page, which is part of the 'Home Assistant' configuration section. The 'Controlli del Server' page has a sub-header 'Riavviare e arrestare il Server Home Assistant' and a 'VERIFICA CONFIGURAZIONE' button. A red arrow points to this button. Below this, the 'Gestione del Server' section shows 'Riavviare' and 'Arrestare' buttons. The 'Ricarica Configurazione YAML' section is also visible at the bottom.

Home Assistant

Panoramica

Mappa

Registro

Storico

Browser multimediale

Strumenti per sviluppatori

Supervisor

Impostazioni

Notifiche

Sandro

Plance di Lovelace

Gestisci le tue plance di Lovelace

Persone

Gestisci le persone tracciate da Home Assistant

Zone

Gestire le zone in cui si desidera

Utenti

Gestisci gli utenti

Home Assistant

Panoramica

Mappa

Registro

Storico

Browser multimediale

Strumenti per sviluppatori

Supervisor

Impostazioni

Notifiche

Sandro

Controlli del Server

Riavviare e arrestare il Server Home Assistant

Generale

Controlli del Server

Logs

Informazioni

Convalida della configurazione

Convalidare la configurazione se di recente sono state apportate alcune modifiche alla configurazione e ci si vuole assicurare che sia tutto valido

VERIFICA CONFIGURAZIONE

Gestione del Server

Controllare il server Home Assistant... da Home Assistant.

RIAVVIARE ARRESTARE

Ricarica Configurazione YAML

Alcune parti di Home Assistant possono essere ricaricate senza richiedere un riavvio. Premendo su Ricarica si rimuoverà la loro Configurazione YAML attuale e si caricherà la

Home Assistant

Panoramica

Mappa

Registro

Storico

Browser multimediale

Strumenti per sviluppatori

Supervisor

Impostazioni

Notifiche 1

Sandro

Generale

Controlli del Server

Logs

Informazioni

Controlli del Server

Riavviare e arrestare il Server Home Assistant

Convalida della configurazione

Convalidare la configurazione se di recente sono state apportate alcune modifiche alla configurazione e ci si vuole assicurare che sia tutto valido

Configurazione valida!

VERIFICA CONFIGURAZIONE

Gestione del Server

Controllare il server Home Assistant... da Home Assistant.

RIAUVIARE

ARRESTARE

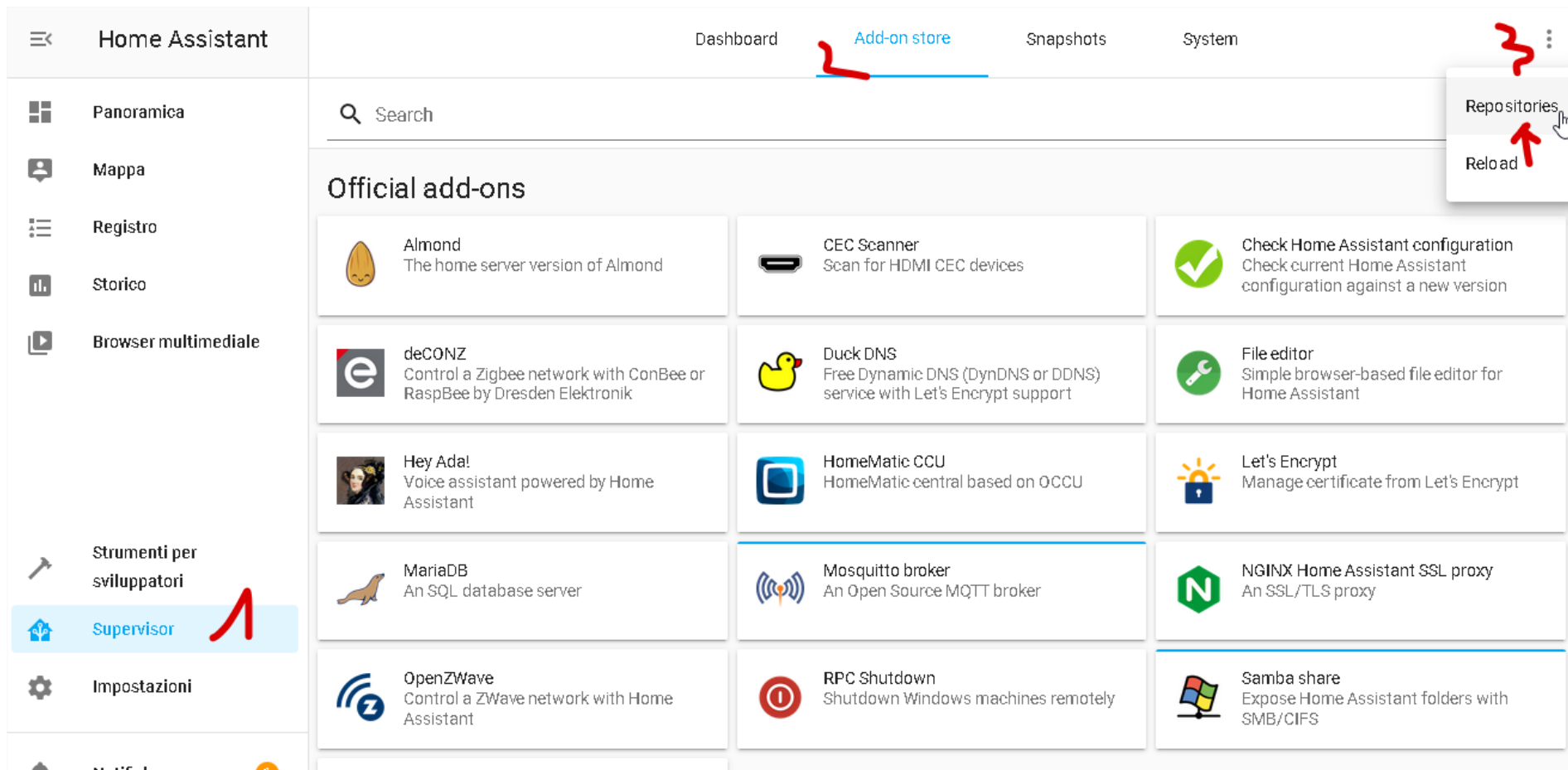
Ricarica Configurazione YAML

Alcune parti di Home Assistant possono essere ricaricate senza richiedere un riavvio. Premendo su Ricarica si rimuoverà la loro Configurazione YAML attuale e si caricherà la
















If OK please restart, otherwise check the errors. **Don't restart without FIX the ERRORS**

Add-on Installation e setup

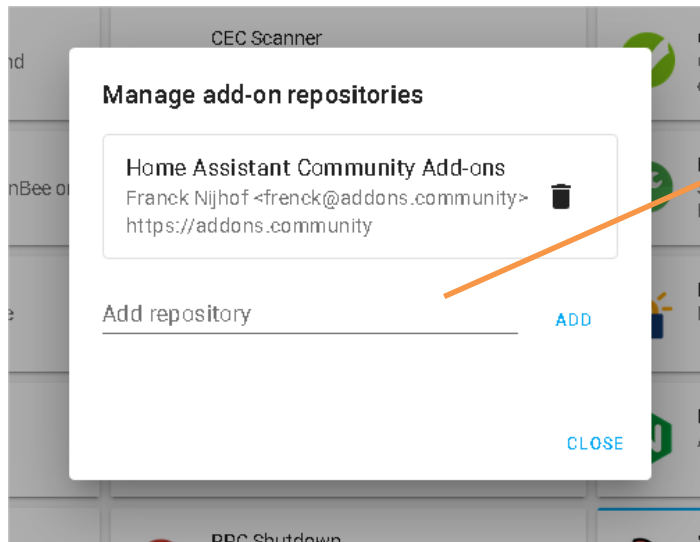
As every Hass.io add-ons please add our repository <https://github.com/sdomotica/hassio-addons>



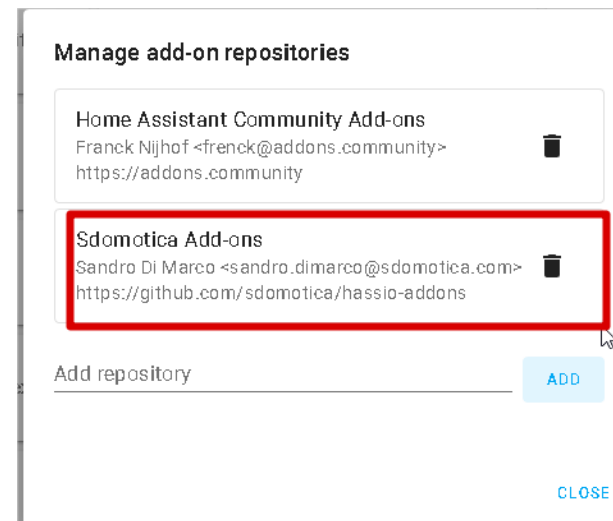
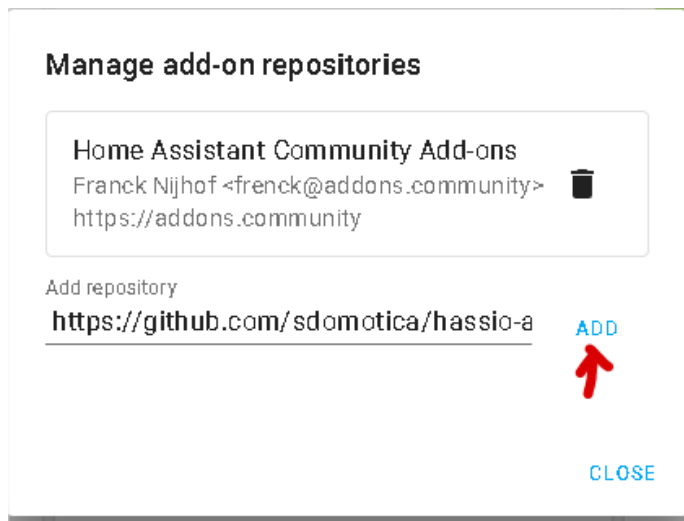
The screenshot shows the Home Assistant web interface. The top navigation bar includes 'Dashboard', 'Add-on store' (highlighted with a red arrow), 'Snapshots', and 'System'. The left sidebar contains various navigation items, with 'Supervisor' highlighted. The main content area is titled 'Official add-ons' and displays a grid of add-on cards. A red arrow points to the 'Add-on store' tab, and another red arrow points to the 'Repositories' button in the top right corner, which has a dropdown menu showing 'Reload'.

Official add-ons			
	Almond The home server version of Almond		CEC Scanner Scan for HDMI CEC devices
	Check Home Assistant configuration Check current Home Assistant configuration against a new version		
	deCONZ Control a Zigbee network with ConBee or RaspBee by Dresden Elektronik		Duck DNS Free Dynamic DNS (DynDNS or DDNS) service with Let's Encrypt support
	File editor Simple browser-based file editor for Home Assistant		
	Hey Ada! Voice assistant powered by Home Assistant		HomeMatic CCU HomeMatic central based on OCCU
	Let's Encrypt Manage certificate from Let's Encrypt		
	MariaDB An SQL database server		Mosquitto broker An Open Source MQTT broker
	NGINX Home Assistant SSL proxy An SSL/TLS proxy		
	OpenZWave Control a ZWave network with Home Assistant		RPC Shutdown Shutdown Windows machines remotely
	Samba share Expose Home Assistant folders with SMB/CIFS		

Sdomotica Gateway

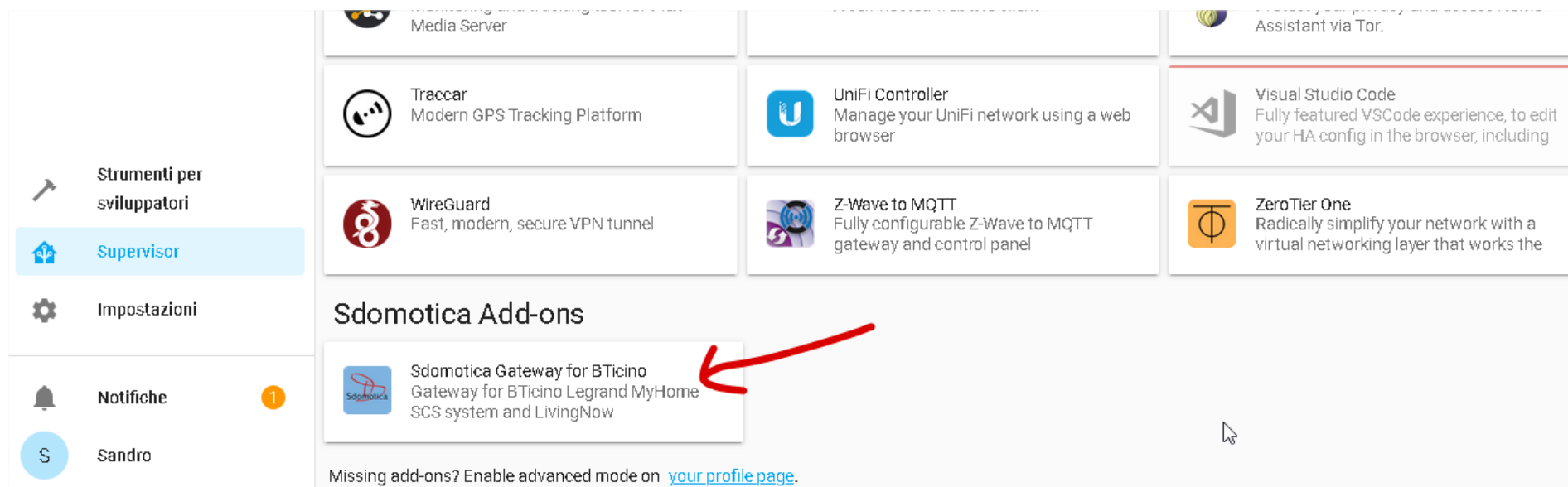


<https://github.com/sdomotica/hassio-addons>

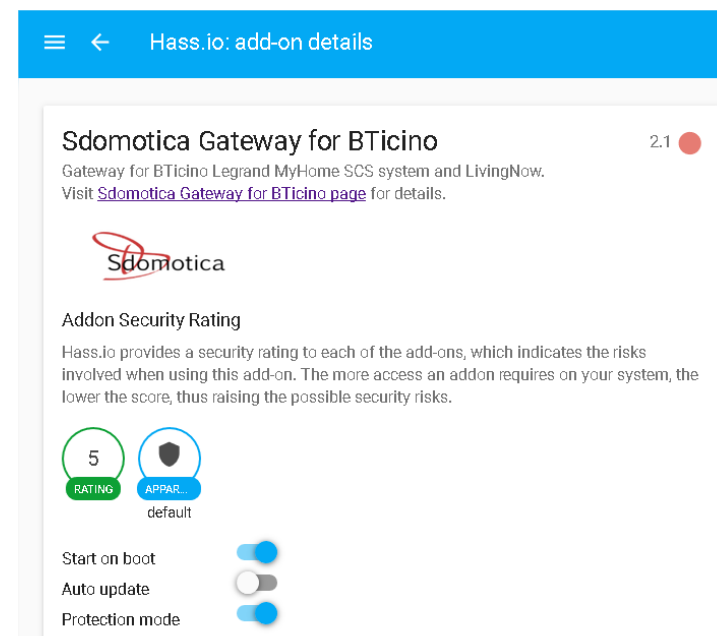
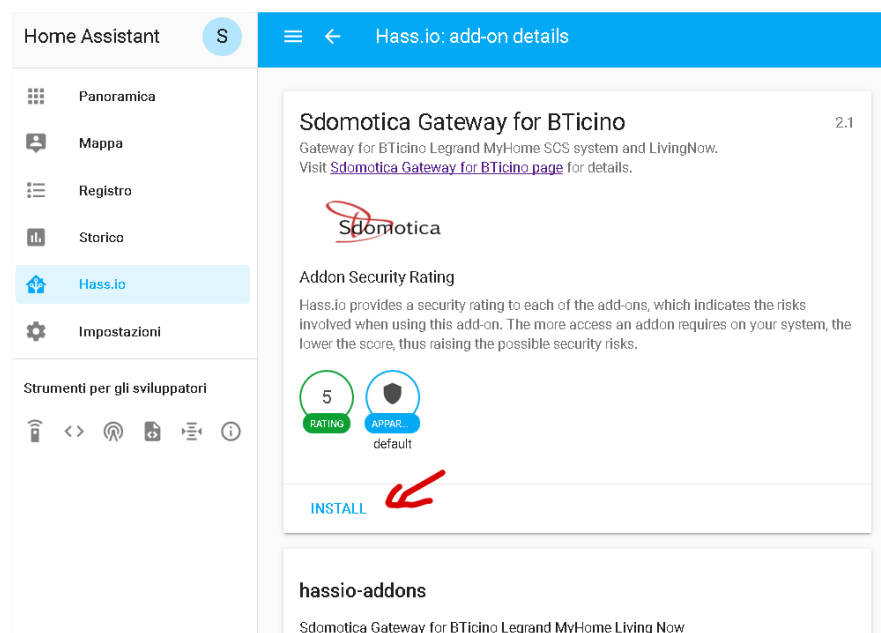


Scroll at the end of the page and

Sdomotica Gateway

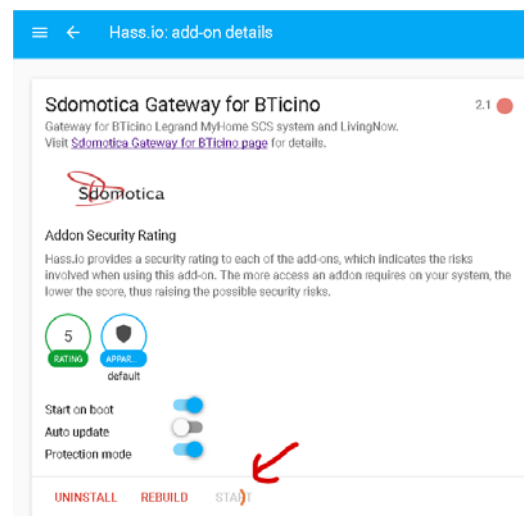


This take long time, on my Raspberry Pi 3B+ required 4 minutes to install the add-on

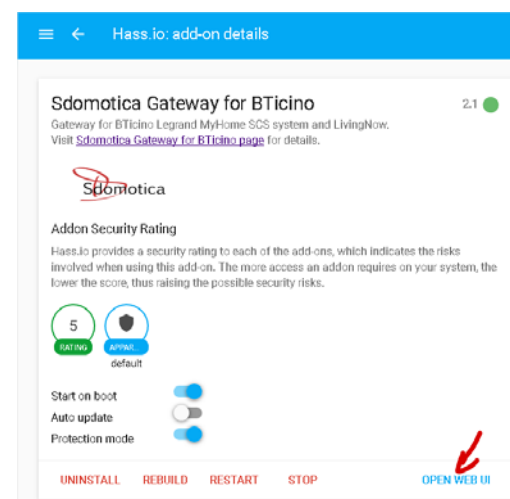


Add-on Setup

Start the add-on (more or less 30 seconds)



Open Sdomotica Web UI



SDOMOTICA GATEWAY CONTROL PANEL

Home

BTicino Gateway

License

Monitor

Config.json

Home Assistant

Sdomotica System

License: Trial: 500

Raspberry IP: 172.30.33.1

Version: 3.10.free

Raspberry ARMv7

Serial: 

Bticino Gateway

IP Address: 192.168.1.35

Port: 20000

Password Open: *****

Connection status: Connected

Configure your Bticino webserver connection

BTICINO WEB SERVER

Home
BTicino Gateway
License
Monitor
Config.json
Home Assistant

BTicino Webserver Settings

```
[General]
myhomeGateway=192.168.1.35
myhomeGatewayPort=20000
myhomePassword=12345
debug= 1
#WebPassword=yes
HaBridgePort=80
HApasword = sdomotica
Mqtt=yes

[MQTT]
mqtt_ip=192.168.1.83
mqtt_port=1883
mqtt_user=sdomotica
mqtt_pwd=sdomotica
```

Save

Enter the IP address of your Bticino Gateway.
192.168.1.35

Enter the Open password of your Bticino Gateway – it
is normally 12345

Save

Configure Mqtt connection

BTICINO WEB SERVER

Home
BTicino Gateway
License
Monitor
Config.json
Home Assistant

BTicino Webserver Settings

```
[General]
myhomeGateway=192.168.1.35
myhomeGatewayPort=20000
myhomePassword=12345
debug= 1
#WebPassword=yes
HaBridgePort=80
HApasword = sdomotica
Mqtt=yes

[MQTT]
mqtt_ip=192.168.1.83
mqtt_port=1883
mqtt_user=sdomotica
mqtt_pwd=sdomotica
```

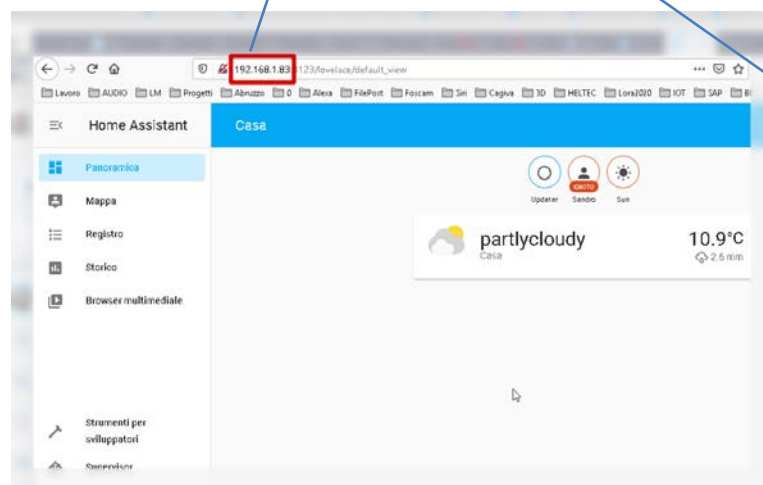
Save

Change the MQTT settings

Put in MQTT the IP of your raspberry running Hassio

And the user and pwd from Mosquitto

Save



Info Documentation Configuration Log

Mosquitto broker

Configuration

```
1 logins:
2   - username: sdomotica
3     password: sdomotica
4 anonymous: true
5 customize:
6   active: false
7   folder: mosquitto
8 certfile: fullchain.pem
9 keyfile: privkey.pem
10 require_certificate: false
11
```


RESET TO DEFAULTS SAVE

Save and restart addon

If the connections is OK

Sdomotica Gateway for BTicino

Gateway for BTicino Legrand MyHome SCS system and LivingNow. Visit [Sdomotica Gateway for BTicino page](#) for details.




Addon Security Rating

Hass.io provides a security rating to each of the add-ons, which indicates the risks involved when using this add-on. The more access an addon requires on your system, the lower the score, thus raising the possible security risks.

5

RATING



APPAR

default

Start on boot

Auto update

Protection mode

UNINSTALL

REBUILD

RESTART

STOP

OPEN WEB UI

SDOMOTICA GATEWAY CONTROL PANEL

Home

BTicino Gateway

License

Monitor

Config.json

Home Assistant

Sdomotica System

License: Trial: 10000

Raspberry IP: 172.30.33.2

Version: 3.10.free

Raspberry 3 Model B+

Serial: 000000001c92d318

Bticino Gateway

IP Address: 192.168.1.35

Port: 20000

Password Open: *****

Connection status: Connected

Copyright 2019 Sandro Di Marco

Mapping your MyHome system

Once connected to the BTicino gateway, you must enter the objects from your MyHome system.

MYHOME SYSTEM CONFIG PAGE

Home

BTicino Gateway

License

Monitor

Config.json

Home Assistant

MyHome System config.json

```
{
  "bridge": {
    "name": "Sdomotica",
    "username": "CC:13:3D:E3:CE:39",
    "port": 51828,
    "pin": "031-45-154"
  },

  "description": "This is the config file based on Homebridge standard. Please edit only accessories into platforms",
  "accessories": [ ],
  "platforms": [

    {
      "platform": "MyHome2",
      "name": "MyHome2",
      "host": "127.0.0.1",
      "port": "3002",
      "password": "12345",
      "url": "http://127.0.0.1:3000",
      "log": "0",

      "accessories": [
        { "type": "Lightbulb", "name": "Corridoio", "address": "0111", "can_dim": false},
        { "type": "Lightbulb", "name": "Tavolo", "address": "0112", "can_dim": false},
        { "type": "Lightbulb", "name": "Zona TV", "address": "03", "can_dim": false},
        { "type": "Lightbulb", "name": "Ingresso", "address": "04", "can_dim": false},
        { "type": "Lightbulb", "name": "Living Room", "address": "0111", "can_dim": false},
        { "type": "Lightbulb", "name": "Patio", "address": "03", "can_dim": false},
        { "type": "Lightbulb", "name": "Bedroom", "address": "04", "can_dim": false}
      ]
    }
  ]
}
```

Entry is always done via the WebInterface. You have to fill MyHome System config.json which is Homebridge standard config.json file

Rules to follow in writing the config.json

The maximum number of Homebridge / Homekit objects is 99 but for Sdomotica you don't have limit.

DON'T USE WORD for edit the file. I suggest Notepad++ <https://notepad-plus-plus.org/>

The name of the objects (see the paragraph for the implemented objects) must be **unique**, duplicates are not allowed.

For the addresses of the light actuators it is necessary to follow some restrictions:

In the case of A > 1 and up to 9 and PL from 1 to 9, the addresses will be only two characters.

For example: A=1 PL=2 -> "address": "12"

In the case of A = 0 and PL from 1 to 9, the addresses will be only two characters.

For example: A=0 PL=2 → "address": "02"

In the case of A > 9 or PL > 9 the addresses will be of four characters.

For example: A = 1 and PL=15 -> "address": "0115"

For example: A = 11 and PL=01 -> "address": "1101"

If in your system there is a F422 the APL format will be

For example: A=1 PL=2 -F422=1> "address": "12#4#01"

All addresses must be written in quotes without space inside.

You will have to add as many lines as necessary for all of your objects. Each line is terminated by a comma, except the **last one** that does not have to have the comma at the bottom.

Once completed, click on Save and Restart Add-on.

```
{
  "type": "Lightbulb", "name": "Luce 11", "address": 11, "can_dim": false},
  "type": "Button", "name": "Bottone 11", "address": 11, "can_dim": false},
  "type": "Switch", "name": "Switch 11", "address": 11, "can_dim": false},
  "type": "Windows", "name": "Veranda", "address": 31, "time": 2},
  "type": "Door", "name": "Cam", "frame": "6*0*4002##",
  "type": "Sensor", "name": "Sensore 0111 Attuatore", "address": "0111"},
  "type": "Sensor3477", "name": "Sensore 3477 normale", "address": "19"},
  "type": "Sensor3477inv", "name": "Sensore 3477 invertito", "address": "19"},
  "type": "Lightbulb", "name": "Luce 32", "address": 32, "can_dim": false},
  "type": "SAThermoHC", "name": "Soggiorno Sonda Singola", "address": 1}
}
```

Save file

The lines should correspond to the currently implemented objects and are as follows:

Lights / Controlled Outlets

```
{ "type": "Lightbulb", "name": "Cucina", "address": "12", "can_dim": false },  
{ "type": "Lightbulb", "name": "Dimmer TV", "address": "19", "can_dim": true },  
{ "type": "Outlets", "name": "Presa Rack 12", "address": "12" },  
{ "type": "Switch", "name": "Switch 11", "address": "11" },  
{ "type": "Lightbulb", "name": "Palla Balcone Nico", "address": "41#4#01" },  
{ "type": "Lightbulb", "name": "Cancello", "address": "12", "frame": "*1*17*12##" },
```

Sensors (3476-3477)

```
{ "type": "Sensor", "name": "Sensore 0111 Attuatore", "address": "0111" },  
{ "type": "Sensor3477", "name": "Sensore 3477 normale", "address": "19" },  
{ "type": "Sensor3477inv", "name": "Sensore 3477 invertito", "address": "19" },
```

Controlled Loads

```
{ "type": "Energy", "name": "Generale", "address": "1" },  
{ "type": "F522", "name": "Lavastoviglie", "address": "2" },  
{ "type": "F523", "name": "Lavatrice", "address": "5" },
```

Heating/Cooling (99 zone controller, external probe/sensor and passive probe/sensor)

```
{ "type": "TemperatureSensors", "name": "Sonda Esterna", "address": 1 },  
{ "type": "Thermostat", "name": "Soggiorno", "address": 1 },  
{ "type": "TemperatureSensorsInternal", "name": "Zona non controllata", "address": 112 }
```

Heating/Cooling (4 zone controller)

```
{ "type": "4ZThermo", "name": "Soggiorno 4 Zone", "address": 1 },
```

Heating/Cooling (Stand Alone 4691 with F430/2 typically with MyHomeServer1)

Based on your mix (Heating/Cooling) you have to use:

Both Heating and Cooling

```
{"type": "SAThermoHC", "name": "Soggiorno Sonda Singola", "address": 1},
```

Only Cooling

```
{"type": "SAThermoC", "name": "Soggiorno Sonda Singola", "address": 1},
```

Only Heating

```
{"type": "SAThermoH", "name": "Soggiorno Sonda Singola", "address": 1},
```

Shutters/Blinds

The Bticino blinds do not indicate the state – only their movement is managed. For example, you can't tell if they are open or closed. Therefore, Bticino Gateway only indicates that the blinds are opening / closing / or are still.

The shutter object in Homekit only indicates a %. Therefore, we have simplified them by indicating them at 50% if they are stationary. It's 0 % or 100% if they are in the process of closing or opening.

```
{"type": "Windows", "name": "Veranda", "address": 31},
```

However, if the actuators installed instead are the 4661M2 or F401 and the gateway is an F454 with the latest firmware or the MHserver1, you can manage the positions - in this case, given you are able to manage the status, the % of opening will be highlighted. The object to use in this case will be:

```
{"type": "WindowsAdvance", "name": "Veranda Avanzata", "address": 55}
```

```
"platforms": [
    {
        "platform": "MyHome2",
        "name": "MyHome2",
        "host": "127.0.0.1",
        "port": "3002",
        "password": "12345",
        "url": "http://127.0.0.1:3000",
        "log": "0",
        "source1": "Radio",
        "source2": "Radio Dab",
        "source3": "MediaPlayer Spotify",
    }
]
```

Rete > 192.168.1.83 > config > custom_components

Nome	Ultima modifica
MyHomeAudio	12/06/2021



```
"source1": "Name of your source 1",
"source2": "Name of your source 2",
"source3": "Name of your source 3",
"source4": "Name of your source 4",
```


```
{ "type": "Audio", "name": "Ampli Cucina", "address": "11"},
{ "type": "Audio", "name": "Bagnetto", "address": "21"},
{ "type": "Audio", "name": "Bagno Padronale", "address": "22"},
```

https://github.com/sdomotica/hassio-addons/tree/master/custom_components

nti Organizza Nuov

> 192.168.1.83 > config > custom_components > MyHomeAudio

Nome	Ultima modifica	Tip
 <code>__init__.py</code>	21/02/2019 16:48	File
 <code>media_player.py</code>	05/11/2019 11:20	File



Burglar Alarm (controller 3486)

In the event that you have enabled the automations feature (such as an arming / disarming) on the burglar-alarm central unit, Aux commands will allow you to manage your home burglar alarm system from Homebridge / Homekit.

Here are the instructions to enable the automation (CAUTION THIS PROCEDURE LOWERS THE SAFETY LEVEL OF YOUR BURGLAR ALARM SYSTEM)

```
{ "type": "SecuritySystem" , "name": "Antifurto", "zone": "8",  
    "STAY_ARM": "*9*4*1##",  
    "AWAY_ARM": "*9*1*9##",  
    "NIGHT_ARM": "*9*4*3##",  
    "DISARMED": "*9*0*9##",  
    "ZONA1": "Ingresso",  
    "ZONA2": "Soggiorno",  
    "ZONA3": "Finestre sotto",  
    "ZONA4": "Finestre sopra",  
    "ZONA5": "Test"  
},
```

Open Doors

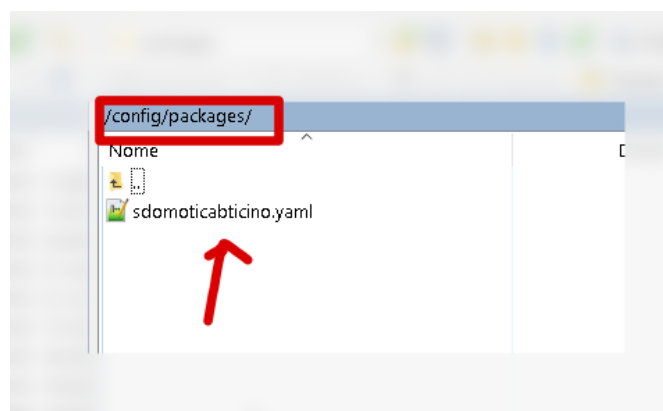
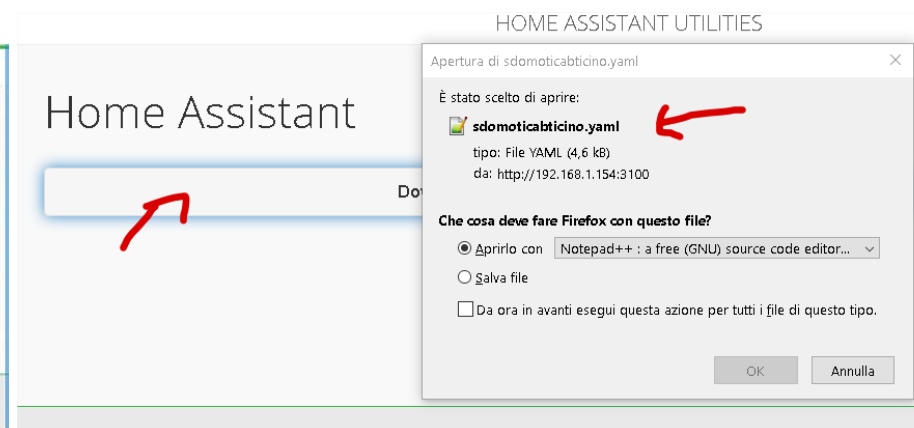
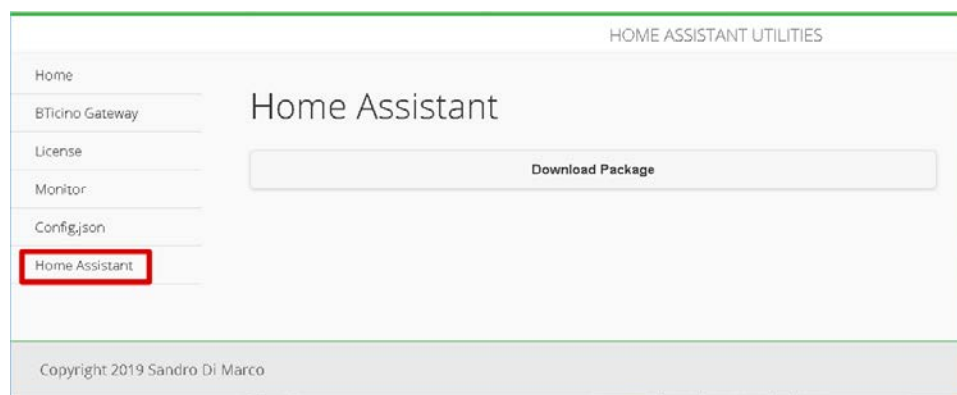
```
{ "type": "Door" , "name": "Porta Garage", "address": 11, "frame": "*1*18*71##"},  
{ "type": "Door" , "name": "Cancelletto", "address": 11, "frame": "*6*10*4000##"},
```

Generic Buttons

```
{ "type": "Button", "name": "Cancello", "address": 12},  
{ "type": "Cen", "name": "Cen command", "frame": "*25*23#1*21##"},
```

Build Home Assistant package

Once connected to the BTicino gateway and mapped your system you can build the package.yaml to insert in your Home Assistant configuration folder



Check the configuration before restart

Home Assistant

Generale Controlli del Server Logs Informazioni

Controlli del Server

Riavviare e arrestare il Server Home Assistant

Convalida della configurazione

Convalidare la configurazione se di recente sono state apportate alcune modifiche alla configurazione e ci si vuole assicurare che sia tutto valido

Configurazione valida!

VERIFICA CONFIGURAZIONE

Gestione del Server

Controllare il server Home Assistant... da Home Assistant.

RIAVVIARE ARRESTARE

Ricarica Configurazione YAML

Alcune parti di Home Assistant possono essere ricaricate senza richiedere un riavvio. Premendo su Ricarica si rimuoverà la loro Configurazione YAML attuale e si caricherà la

If OK please restart, otherwise check the errors. **Don't restart without FIX the ERRORS some errors are relating climate and cover, check next page to solve**

Restart your Home Assistant

Manual edit for support last HA version

The Sdomotica built package need some editing

- 1) Comment and edit Windows Advance if used

```
cover:
- platform: mqtt
  name: Veranda Avanzata
  unique_id: bticino61
  command_topic: "sdomotica/cover/55/set"
  optimistic: false
  → #set_position_template: "{{value.x}}"
  set_position_topic: "sdomotica/cover/55/position"
  position_topic: "sdomotica/cover/55/statusposition"
```

- 2) Comment or remove on all the climates

```
climate:
- platform: mqtt
  name: Soggiorno
  #unit_of_measurement: "°C"
  modes:
    - Manual
    - Automatic
    - "OFF"
    - Antifreeze
    - Protection
  current_temperature_topic: "sdomotica/4/1/status"
  temperature_state_topic: "sdomotica/4/1/setpoint"
  temperature_command_topic: "sdomotica/4/1/settemperature"
  mode_state_topic: "sdomotica/4/1/mode"
  mode_command_topic: "sdomotica/4/1/setmode"
  power_command_topic: "sdomotica/4/1/power"
  #optimistic: false
```

OpenWebNet Monitor / Client

In Sdomotica Gateway there's a client for see and send OpenWebnet Messages

BTICINO MONITOR

Home

BTicino Gateway

License

Monitor

Config.json

Home Assistant

BTicino Monitor Open

Send

Start

Stop

Clear

2019-02-09T11:58:53 - Broadcast message: "1*0*04## - 251

2019-02-09T11:58:53 - Broadcast message: "1*1*03## - 249

2019-02-09T11:58:53 - Broadcast message: "1*0*0112## - 244

2019-02-09T11:58:53 - Broadcast message: "1*1*0111## - 242

2019-02-09T11:58:53 - Broadcast message: "1*1*24## - 240

2019-02-09T11:58:52 - Broadcast message: "1*0*23## - 235

2019-02-09T11:58:52 - Broadcast message: "1*1*11## - 233

2019-02-09T11:58:52 - Broadcast message: "1*0*12## - 228

2019-02-09T11:58:52 - Broadcast message: "2*0*31## - 225

2019-02-09T11:58:52 - Broadcast message: "1*1*32## - 223

Connected

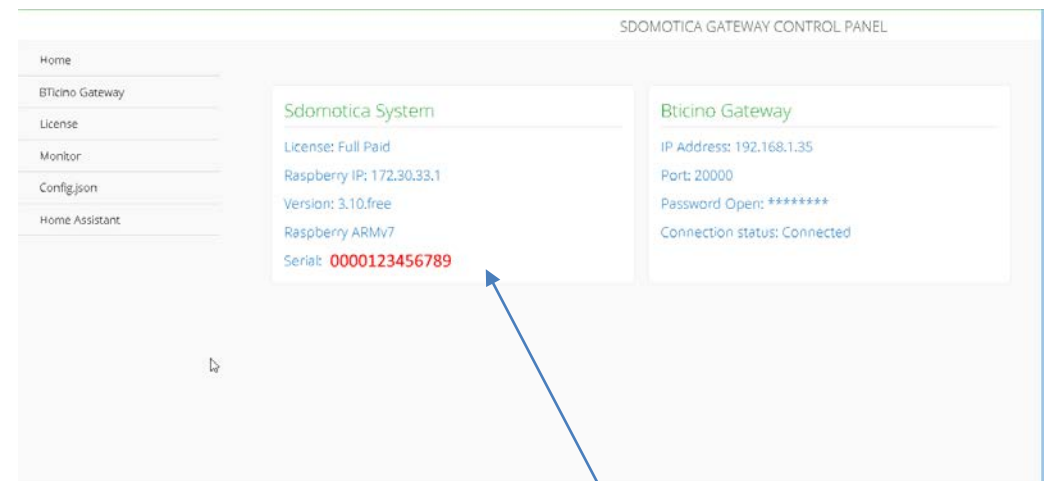
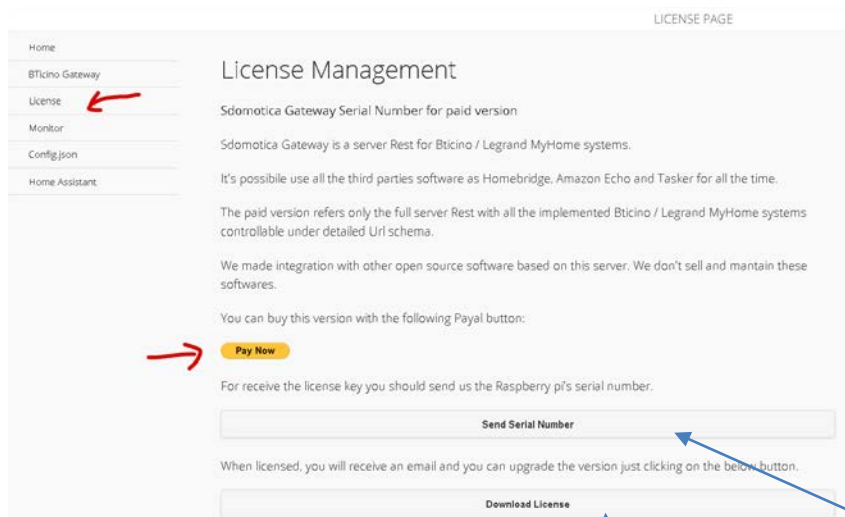
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Then wait my license generation and confirmation mail.

Received the confirmation, please click on download license and restart addon