

Home Assistant

[homeassistant, domotic]

- [home assistant](#)
- [raspberrypi](#)
- <https://github.com/scipioni/home-assistant-example>

Install

- [example 1](#)
- `pip3 install urllib3==1.20 -upgrade -target ~/.homeassistant/deps/` (telegram notify solved)

upgrade

```
pip install -U homeassistant
```

and after restart home assistant

with fabric

- <https://github.com/home-assistant/fabric-home-assistant>

hass

```
sudo apt install python3 python3-venv incron mc python3-dev libffi-dev  
libssl-dev  
python3 -m venv ~/lib  
. ~/lib/bin/activate  
echo "source ~/lib/bin/activate" >> ~/.bashrc  
pip install -U pip  
pip install homeassistant
```

service

[/etc/systemd/system/home-assistant.service](#)

```
[Unit]  
Description=Home Assistant  
After=network.target  
  
[Service]  
Type=simple  
User=pi  
ExecStart=/home/pi/lib/bin/hass -c "/home/pi"
```

```
[Install]
WantedBy=multi-user.target
```

enable service

```
systemctl daemon-reload
systemctl enable home-assistant
```

configuration example

```
sudo apt install git mc
git clone https://github.com/scipioni/home-assistant-example.git home-
assistant-scipio
```

z-wave

TKB Home TZ10.XX / TZ10.36 termostato `<Product type="0201" id="0501" name="TZ10.XX Wall Thermostat" config="wenzhou/tz10.xml"/>`

`/etc/udev/rules.d/local.conf`

```
SUBSYSTEM=="tty", ACTION=="add", ATTRS{idVendor}=="0658",
ATTRS{idProduct}=="0200", SYMLINK+="zwave"
```

Add to `~/lib/lib/python3.5/site-packages/python_openzwave/ozw_config/manufacturer_specific.xml` near `<Manufacturer id="0118" name="Wenzhou TKB Control System">`

```
<Product type="0201" id="0501" name="TZ10.XX Wall Thermostat"
config="wenzhou/tz10.xml"/>
```

wenzhou/tz10.xml

```
<?xml version="1.0" encoding="utf-8"?>
<Product xmlns='http://code.google.com/p/open-zwave/'>
  <!-- COMMAND_CLASS_BASIC does not respond to requests -->
  <CommandClass id="32" action="remove" />
  <!-- This thermostat's setpoint descriptions are 0 based -->
  <CommandClass id="66">
    <Value type="string" genre="user" instance="1" index="0"
label="Operating State" units=" mode" value="Idle" />
  </CommandClass>
  <CommandClass id="67" base="0" override_precision="2" />
</Product>
```

reverse proxy

[/etc/nginx/sites-enabled/homeassistant](#)

```
server {
    listen 80;
    server_name "scipio.csgalileo.org";

    # create this folder empty
    location /.well-known/acme-challenge {
        root /var/www;
        allow all;
    }

    location / {
        return 301 https://$server_name$request_uri;
    }
}

server {
    listen 443 ssl;
    server_name "scipio.csgalileo.org";
    ssl on;

    proxy_buffering off;
    location / {
        proxy_pass http://localhost:8123/;
        proxy_set_header Host $host;
    }

    ssl_certificate /etc/ssl/certs/scipio.csgalileo.org.cer;
    ssl_certificate_key /etc/ssl/private/scipio.csgalileo.org.key;
}
```

MQTT

```
apt install mosquitto
```

```
mosquitto_passwd /etc/mosquitto/pwfile scipio
```

zones

```
mosquitto_passwd /etc/mosquitto/pwfile simo
```

~/homeassistant/known_devices.yaml

github

setup

```
git config --global push.default simple
git clone https://github.com/scipioni/home-assistant.git
cd home-assistant
git remote add upstream https://github.com/home-assistant/home-assistant.git
git fetch -v

# script/setup
```

create a branch with expected work

```
git branch telegram-webhooks
git checkout telegram-webhooks
git push --set-upstream origin telegram-webhooks
```

everyday work on branch

```
...
git add
git commit
git push
```

rebase before pull request

```
git fetch upstream dev
git rebase upstream/dev

# in case of conflicts
... edit conflicts
git add ...
git rebase --continue

# -f is necessary (Git will reject it because there isn't a direct path from
the commit on the server to the commit on your branch)
git push -f
```

now in github project "new pull request"

github docs

```
git clone https://github.com/scipioni/home-assistant.git
cd home-assistant.github.io.git
git remote add upstream https://github.com/home-assistant/home-
assistant.github.io.git
git fetch -v

# script/setup
```

create a branch with expected work

```
git branch telegram-webhooks
git checkout telegram-webhooks
git push --set-upstream origin telegram-webhooks
```

ruby

```
sudo apt install y ruby ruby-dev
sudo gem install bundler
cd home-assistant.github.io.git
bundle
rake generate
```

test site

```
rake preview
```

everyday work on branch

```
...
git add
git commit
git push
```

rebase before pull request

```
git fetch upstream next
git rebase upstream/next

# in case of conflicts
... edit conflicts
git add ...
git rebase --continue

# -f is necessary (Git will reject it because there isn't a direct path from
the commit on the server to the commit on your branch)
git push -f
```

now in github project “new pull request”

motion

Install latest release from <https://github.com/Motion-Project/motion>

[/etc/motion/motion.conf](#)

```
on_picture_save /usr/bin/motion-homeassistant %f
```

[/usr/bin/motion-homeassistant](#)

```
#!/bin/sh

F=$1
ln -sf $(basename $F) $(dirname $F)/lastsnap.jpg
```

[config.yaml](#)

```
camera:
- platform: local_file
  name: soggiorno
  file_path: /media/usb0/photo/lastsnap.jpg
```

sensors

- /dev-service → zwave → set_config_parameter

disable LED on fibardo FGMS-001

```
{
  "node_id": 3,
  "parameter": 80,
  "value": 0
}
```

Foscam IP camera

```
vlc rtsp://hass:password1@192.168.2.14:554/videoMain
```

automation

create a virtual switch

input_boolean.yaml

```
motion_detected:
  name: Motion rilevato
  initial: off
  icon: mdi:run
```

we can turn on this virtual switch with as web service

```
curl -X POST -H "x-ha-access: xxx" -H "Content-Type: application/json" -d
'{"state": "on"}' \
http://localhost:8123/api/states/input_boolean.motion_detected
```

automation that reset virtual switch after 2 seconds

automation/on-motion.yaml

```
alias: 'reset motion state'
trigger:
  platform: state
  entity_id: input_boolean.motion_detected
  to: 'on'
action:
  # after two seconds reset motion_detected state
  - delay: '00:00:02'
  - service: input_boolean.turn_off
    data:
      entity_id: input_boolean.motion_detected
```

camera motion

- <https://github.com/hokus15/home-assistant-config>

```
sudo apt install incron
```

```
echo hass > /etc/incron.allow
```

as hass user edit incron table 'incrontab -e' (incrontab -l to see)

```
/media/usb0/photo/C1_00626E611E80/snap/ IN_CLOSE_WRITE echo "$$ $@ $# $% $&"
```

grafana



[Add influxdb datasource](#)



Data Sources ▾

Edit data source

Name

homeassistant 

Type

InfluxDB ▾

Default

☒

HTTP settings

URL

http://localhost:8086 

Access

proxy ▾ 

HTTP Auth

Basic Auth

☐

With Credentials 

☐

TLS Client Auth

☐

With CA Cert 

☐

Skip TLS Verification (Insecure)

☐

InfluxDB Details

Database

home_assistant

User

Password

Min time interval

10s 

 Data source is working

Save & Test

Delete

Cancel

alexa

- <https://home-assistant.it/integrare-alexa-in-home-assistant-senza-usare-il-cloud-e-a-costo-zero/>

Modificare <https://github.com/mike-grant/haaska> per il multiclient.

haaska.py gira come servizio sui lambda server amazon. Aniché leggere la configurazione (ad esempio bearer_token) da file, prevedere una chiamata ad un web service esterno (ad esempio https://ha.csgalileo.org/alexa?client=id_client_alexa) da cui recuperare i dati. Ovviamente va mappato id_client_alexa con albertis

Sniffare i metodi:

- def get(self, endpoint):
- def post(self, endpoint, data, wait=False):

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<https://wiki.csgalileo.org/> - **Galileo Labs**

Permanent link:

<https://wiki.csgalileo.org/projects/internetofthings/homeassistant?rev=1563272077>

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