

# Home Assistant

[homeassistant, domotic]

- home assistant
- raspberry
- <https://github.com/scipioni/home-assistant-example>

## Install

- [example 1](#)
- pip3 install urllib3==1.20 -upgrade -target ~/.homeassistantdeps/ (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/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 a 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 incrontab 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	ⓘ	Default	<input checked="" type="checkbox"/>
Type	InfluxDB	ⓘ		

### HTTP settings

URL	http://localhost:8086	ⓘ
Access	proxy	ⓘ

### HTTP Auth

Basic Auth	<input type="checkbox"/>	With Credentials	ⓘ	<input type="checkbox"/>
TLS Client Auth	<input type="checkbox"/>	With CA Cert	ⓘ	<input type="checkbox"/>

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/>

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



Permanent link:  
<https://wiki.csgalileo.org/projects/internetofthings/homeassistant?rev=1560363891>

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