

# Home Assistant

[[homeassistant](#), [domotic](#)]

- [home assistant](#)
- [raspberry](#)
- <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

```
apt install python3 python3-venv incron mc python3-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/pythonopenzwave/ozwconfig/manufacture_specific.xml` near `<Manufacturer id="0118" name="Wenzhou TKB Control System"`

|

>

<

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

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 → setconfigparameter

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>

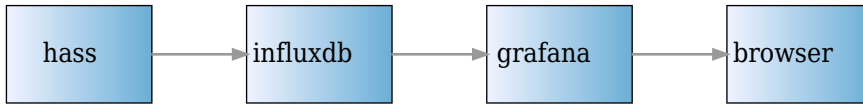
```
sudo apt install incron
```

```
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 <span>ⓘ</span>	Default	<input checked="" type="checkbox"/>
Type	InfluxDB <span>▼</span>		

### HTTP settings

URL	http://localhost:8086 <span>ⓘ</span>
Access	proxy <span>▼</span> <span>ⓘ</span>

### HTTP Auth

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

Skip TLS Verification (Insecure)	<input type="checkbox"/>
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### InfluxDB Details

Database	home_assistant		
User	<input type="text"/>	Password	<input type="password"/>
Min time interval	10s <span>ⓘ</span>		

✓ Data source is working

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Permanent link:  
<https://wiki.csgalileo.org/projects/internetofthings/homeassistant?rev=1558605753>

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