

# Rhasspy 2 (v1)

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# Maintenance / update/install

```
sudo systemctl start/stop/status voice
```

<https://rhasspy.readthedocs.io/en/latest/installation/#virtual-environment>

## Installation

- (clone le repo)
- `export PIP_VERSION="pip<=20.2.4"`
- `./configure RHASSPY_LANGUAGE=fr --enable-in-place`
- `make`

## With Gruut:

- `make install-init`
- comment or delete all install-init in the makefile
- `source .venv/bin/activate`
- install `onnxruntime` with pip from <https://github.com/synesthesiam/prebuilt-apps/releases>
- install `phonetisaurus` with pip from <https://github.com/rhasspy/phonetisaurus-pypi/releases>
- install `gruut` <https://github.com/rhasspy/gruut/releases/tag/v0.9.0>
- `make install` in rhasspy dir

## Without Gruut:

- Edit `setup.py` and answer "no" to gruut installation
- `make install` in rhasspy dir

## Microphone

- `sudo apt install pulseaudio`
- `pactl list sinks`
- `pactl set-default-sink 0`
- `vim ~/.asoundrc`

```
pcm.!default {
    type asym playback.pcm { type plug slave.pcm "hw:0" }
    capture.pcm { type plug slave.pcm "hw:1" }
```

}

- reboot

Audio Recording arecord

Starts an arecord process locally and reads audio data from its standard out ([Documentation](#))

Device: default

Playback/recording through the PulseAudio sound server (default) Refresh Test

UDP Audio (Output) host port (outside ASR listening)

Output siteId

# Commande rasp

- <https://memodugeek.info/augmenter-la-taille-du-swap-sur-le-raspberry-pi/>

# Rhasspy 3 (v2)

## ALSA

Lister les cartes audio:

```
arecord -l
```

```
aplay -l
```

Mettre par défaut une carte:

```
/etc/asound.conf
```

```
pcm.!default {
    type plug
    slave.pcm {
        type hw
        card 2
    }
}
```

## Config

```
programs:
  mic:
    arecord:
      command: |
        arecord -q -r 16000 -c 1 -f S16_LE -t raw -
    adapter: |
      mic_adapter_raw.py --rate 16000 --width 2 --channels 1
  snd:
    mplayer:
      command: |
        mplayer - -cache 1024 -volume 7 -rawaudio channels=1:rate=22050:samplesize=2 -demuxer
```

```
rawaudio
  adapter: |
    snd_adapter_raw.py --rate 22050 --width 2 --channels 1
wake:
  porcupine1:
    command: |
      .venv/bin/python3 bin/porcupine_stream.py --model "${model}" "${sensitivities}" --
lang_model "${lang_model}"
  template_args:
    model: "${data_dir}/framboise_linux.ppn"
    lang_model: "${data_dir}/porcupine_params_fr.pv"
    sensitivities: "0.6"
asr:
  whisper-cpp.client:
    command: |
      client_unix_socket.py var/run/whisper-cpp.socket
  larynx2:
    command: |
      client_unix_socket.py var/run/vosk.socket
handle:
  date_time:
    command: |
      bin/date_time.py
  adapter: |
    handle_adapter_text.py
ratatouille:
  command: |
    bin/converse.py "${url}"
  adapter: |
    handle_adapter_text.py
  template_args:
    url: "http://127.0.0.1:5555"
tts:
  piper.client:
    command: |
      client_unix_socket.py var/run/piper.socket
servers:
  asr:
    whisper-cpp:
      command: |
```

```

    script/server "${data_dir}/ggml-small.bin"
vosk:
  command: |
    script/server "${data_dir}/vosk-model-fr-0.22"
tts:
  piper:
    command: |
      script/server "${model}"
    template_args:
      model: "${data_dir}/fr-siwis-low.onnx"

pipelines:
  default:
    mic:
      name: arecord
    wake:
      name: porcupine1
    asr:
      name: vosk.client
    handle:
      name: ratatouille
    tts:
      name: piper.client
    snd:
      name: mplayer

```

## Customisation wake word

config/programs/wake/porcupine1/bin/porcupine\_stream.py

```

if keyword_index >= 0:
    os.system("/usr/bin/mplayer -volume 10 /srv/rhasspy/media/long-oiseau.mp3 &>/dev/null &")
write_event(
    ...

```

## Tester tts

```
script/run bin/tts_speak.py 'Bonjour'
```

# Tester ratatouille

```
echo "est-ce qu'il va pleuvoir de demain" | config/programs/handle/ratatouille/bin/converse.py  
http://10.10.10.11:5555
```