Table of Contents

1. Speech recognition

Listening to speech is located on the SI node and is done with a Python script. The script is published at the Github location: https://github.com/Windesheim-Willy/speech_recognition/blob/master/start_recognition.py . Two essential services are used:

- Speech recognition (speech to text conversion) of Google through the use the module speech_recognition
- Fuzzy logic search option through the use of the module fuzzywuzzy

2. Flow

The general flow in the script is as follows:

- The neccesary modules are imported

- The hit ratio used for fuzzy logic resemblance is set
- Two topics are set for publishing
- Speech is captured through the microphone
- Speech is transferred to Google for translation in clear text in Dutch
- Text is published on topic /interaction/clear_text
- Text is compared with fuzzy logic to keywords, when hit the number 1 is published on topic /interaction/is_active