Rolf Becker (rolf001) - Public Page

These pages are meant to be my personal scratch books, for arbitrary notes.

2025-09-17 ULL LoRaWAN Dragino DLOS8

- TTN Management Console: https://eu1.cloud.thethings.network/console
- draginogw-iotlab-006: https://eu1.cloud.thethings.network/console/gateways/draginogw-iotlab-006
- Manual DLOS8: https://www.dragino.com/downloads/downloads/LoRa_Gateway/DLOS8/DLOS8_LoRaWAN_Gateway_User_Manual_v1.3.pdf

Sensecap:

- https://wiki.seeedstudio.com/Sensor/SenseCAP/SenseCAP_Data_Logger/tutorial/How_to_Configure_the_12V_RS485_Sensor_for_S2100_Data_Logger/
- https://www.seeedstudio.com/SenseCAP-S2105-LoRaWAN-Soil-Temperature-Moisture-and-EC-Sensor-p-5358.html
- https://wiki.seeedstudio.com/SenseCAP_Sensor_Intro/
- SenseCAP S2110 Grove to MODBUS RS485 Converter (aka Sensor Builder):
  - https://wiki.seeedstudio.com/Build-LoRaWAN-Sensors-SenseCAP-XIAO-Controller-Data-Logger/
  - https://github.com/Seeed-Studio/Seeed_Arduino_S2110

2024-05-19 - NVIDIA Jetson AGX Orin 64GB Setup

- **AGX Orin**

RASA NLU

I want to use RASA as a ChatBot to fill forms.

vosk ASR

Automatic Speech Recognition (ASR) with vosk

Hackday Moers 2023

Caspers Data API

- https://opendata.dasdigidings.de/

TTN Appllication Moers Umwelt

- https://eu1.cloud.thethings.network/console/
- User ro
- https://eu1.cloud.thethings.network/console/applications/moers-umwelt

Node-RED

https://nodered.org/docs/getting-started/raspberrypi

```
 ### ADDITIONAL RECOMMENDATIONS ###
  - Remove the /etc/sudoers.d/010_pi-nopasswd file to require entering your
password
    when performing any sudo/root commands:

      sudo rm -f /etc/sudoers.d/010_pi-nopasswd

  - You can customise the initial settings by running:

      node-red admin init

  - After running Node-RED for the first time, change the ownership of the
settings
    file to 'root' to prevent unauthorised changes:

      sudo chown root:root ~/.node-red/settings.js
```

```
sudo systemctl enable nodered.service

sudo systemctl start nodered.service
```

Password auf Node-RED setzen

Web Frontend

- http://192.168.1.117:1880/
- http://rollo.local:1880/

InfluxDB

- https://www.influxdata.com/

- https://docs.influxdata.com/influxdb/v2.6/get-started/
- https://docs.influxdata.com/influxdb/v1.8/introduction/download/
-  https://docs.influxdata.com/influxdb/v1.8/introduction/install/?t=curl

```
cd ~

# influxdata-archive_compat.key GPG Fingerprint:
9D539D90D3328DC7D6C8D3B9D8FF8E1F7DF8B07E
curl -s https://repos.influxdata.com/influxdata-archive_compat.key >
influxdata-archive_compat.key
echo '393e8779c89ac8d958f81f942f9ad7fb82a25e133faddaf92e15b16e6ac9ce4c
influxdata-archive_compat.key' | sha256sum -c && cat influxdata-
archive_compat.key | gpg --dearmor | sudo tee
/etc/apt/trusted.gpg.d/influxdata-archive_compat.gpg > /dev/null
echo 'deb [signed-by=/etc/apt/trusted.gpg.d/influxdata-archive_compat.gpg]
https://repos.influxdata.com/debian stable main' | sudo tee
/etc/apt/sources.list.d/influxdata.list

ls -al
```

```
sudo apt-get update && sudo apt-get install influxdb
sudo systemctl unmask influxdb.service
sudo systemctl start influxdb
```

- https://docs.influxdata.com/influxdb/v1.8/administration/authentication_and_authorization/
- https://docs.influxdata.com/influxdb/v1.8/administration/authentication_and_authorization/#user-management-commands

```
influx

CREATE USER admin WITH PASSWORD '<password>' WITH ALL PRIVILEGES

exit

# drop user admin
```

```


sudo vi /etc/influxdb/influxdb.conf

# Determines whether user authentication is enabled over HTTP/HTTPS.
auth-enabled = true
```

```
sudo systemctl restart influxdb.service
```

```
influx
```

```
create database sensordaten
```

Port 8086

Grafana

https://grafana.com/tutorials/install-grafana-on-raspberry-pi/

```
wget -q -O - https://packages.grafana.com/gpg.key | sudo apt-key add -

echo "deb https://packages.grafana.com/oss/deb stable main" | sudo tee -a
/etc/apt/sources.list.d/grafana.list

sudo apt-get update

sudo apt-get install -y grafana

systemctl enable grafana-server
# Port 3000
```

Royal Eijkelkamp

Meeting 2022-02-09

My private page.

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