

Neuinstallation ioBroker auf einem R-Pi 3 B+

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Das Grundsystems

Installation

Die Verwendung von InfluxDB 2.x setzt ein 64-bit Betriebssystem voraus.

Ein Desktop bzw. eine vollständige grafische Oberfläche wird nicht benötigt. Daher bezeichnet man ein solches System als „Headless“. Somit basiert dieses Heimautomatisierungsprojekt auf einem Raspberry Pi OS (32 oder 64-bit) Lite.

```
# Raspberry Pi Image besorgen
#wget
https://downloads.raspberrypi.org/raspios_lite_armhf/images/raspios_lite_armhf-2023-02-22/2023-02-21-raspios-bullseye-armhf-lite.img.xz
wget
https://downloads.raspberrypi.com/raspios_lite_armhf/images/raspios_lite_armhf-2023-10-10/2023-10-10-raspios-bookworm-armhf-lite.img.xz
oder
#wget
https://downloads.raspberrypi.org/raspios_lite_arm64/images/raspios_lite_arm64-2023-02-22/2023-02-21-raspios-bullseye-arm64-lite.img.xz
wget
https://downloads.raspberrypi.com/raspios_lite_arm64/images/raspios_lite_arm64-2023-10-10/2023-10-10-raspios-bookworm-arm64-lite.img.xz
# R-Pi Imager herunterladen und installieren:
wget https://downloads.raspberrypi.org/imager/imager_latest_amd64.deb
sudo dpkg -i imager_latest_amd64.deb
rpi-imager
#sudo touch /media/<benutzername>/bootfs/ssh
```

```
#sync
# SD-Karte aushängen und damit den R-Pi booten
```

Konfiguration

Während des Bootvorganges erhält der Raspberry eine IP Adresse vom Router. Diese kann über die entsprechende Weboberfläche des Routers ermittelt werden.

```
# Grundsystem auf den aktuellen Stand bringen:
ssh -l pi <IP>
sudo su
apt-get update && sudo apt-get upgrade
apt-get install aptitude mc apt-transport-https software-properties-common
raspi-config nonint do_hostname iobroker
raspi-config nonint do_owire 0
raspi-config nonint do_change_locale de_DE.UTF-8 UTF-8
raspi-config nonint do_expand_rootfs
raspi-config nonint do_update
reboot
# Feste IP für eth0 einstellen:
mcedit /etc/dhcpd.conf
interface eth0
static ip_address=192.168.10.11/24
static routers=192.168.10.1
static domain_name_servers=192.168.10.1
```

InfluxDB 1.x

Quelle: <https://docs.influxdata.com/influxdb/v1/introduction/install/>

Installation

```
sudo su
#wget -q0- https://repos.influxdata.com/influxdata-archive_compat.key | sudo
apt-key add -
#source /etc/lsb-release
#echo "deb https://repos.influxdata.com/${DISTRIB_ID,,} ${DISTRIB_CODENAME}
stable" | sudo tee /etc/apt/sources.list.d/influxdb.list
#curl https://repos.influxdata.com/influxdata-archive.key | gpg --dearmor |
sudo tee /usr/share/keyrings/influxdb-archive-keyring.gpg >/dev/null
#echo "deb [signed-by=/usr/share/keyrings/influxdb-archive-keyring.gpg]
https://repos.influxdata.com/debian $(lsb_release -cs) stable" | sudo tee
/etc/apt/sources.list.d/influxdb.list
wget -q https://repos.influxdata.com/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
```

```
apt-get update
```

```
apt-get install influxdb
```

```
systemctl unmask influxdb.service
```

```
systemctl enable influxdb
```

```
systemctl start influxdb
```

```
systemctl status influxdb
```

Konfiguration

```
sudo su
```

```
influx
```

```
> CREATE USER "admin" WITH PASSWORD 'influxdbadmin' WITH ALL PRIVILEGES
```

```
> CREATE USER "iobroker" WITH PASSWORD 'iobroker'
```

```
> CREATE DATABASE "iobrokerdb"
```

```
> GRANT ALL ON "iobrokerdb" TO "iobroker"
```

```
> exit
```

```
#
```

```
mcedit /etc/influxdb/influxdb.conf
```

```
[http]
```

```
enabled = true
```

```
bind-address = ":8086"
```

```
auth-enabled = true
```

```
log-enabled = true
```

```
write-tracing = false
```

```
pprof-enabled = false
```

```
https-enabled = false
```

```
#
```

```
systemctl restart influxdb
```

Datenbankgröße ermitteln

```
sudo su
```

```
du -sh /var/lib/influxdb/data/iobrokerdb/
```

Backups

Quelle:

https://docs.influxdata.com/influxdb/v1/administration/backup_and_restore/#back-up-all-databases

Erstellen

```
sudo su
influxd backup -portable /path/to/backup-destination
```

Wieder herstellen

```
sudo su
influxd restore -portable /path/to/backup-destination
```

InfluxDB 2.x

Installation

```
sudo su
cd ~
wget -q https://repos.influxdata.com/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
apt-get update
apt-get install influxdb2
systemctl start influxdb
systemctl status influxdb
```

Konfiguration

Die Konfiguration der InfluxDB erfolgt über den Browser via <http://RASPI-IP:8086>.

Grafana

Installation

```
sudo su
#wget -q -O /usr/share/keyrings/grafana.key https://apt.grafana.com/gpg.key
#echo "deb [signed-by=/usr/share/keyrings/grafana.key]
https://apt.grafana.com stable main" | sudo tee -a
/etc/apt/sources.list.d/grafana.list
```

```
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  
apt-get update  
# Install the latest OSS release:  
apt-get install -y grafana  
# Start System Service aka. Server  
systemctl daemon-reload  
systemctl start grafana-server  
systemctl status grafana-server  
systemctl enable grafana-server.service
```

Grafana Server: <http://IP:3000>

Grafana ohne Login

```
mcedit /etc/grafana/grafana.ini  
# [auth.anonymous]  
enabled = true  
systemctl restart grafana-server
```

Backup

Quelle: <http://cactusprojects.com/backup-restore-grafana/>

Erstellen

```
sudo su  
cp /var/lib/grafana/grafana.db /path/to/backup-destination  
cp /etc/grafana/grafana.ini /path/to/backup-destination
```

Wieder herstellen

```
sudo su  
cd /path/to/backup-destination  
cp grafana.db /var/lib/grafana/  
cp grafana.ini /etc/grafana/
```

ioBroker

Installation

```
sudo su  
# automatische Installation:  
curl -sLf https://iobroker.net/install.sh | bash -
```

Nach der Installation ist die ioBroker Instanz erreichbar unter <http://<Raspberry-Pi-IP>:8081>.

Steuerung

```
# ioBroker starten:  
iobroker start  
# ioBroker stoppen:  
iobroker stop  
# ioBrker Infos anzeigen  
iobroker info
```

Adapter installieren

Als Adapter werden alle Schnittstellen zu externen aber auch zu internen Datenquellen (z.B. Shelly Sensoren, Temperatur, Luftfeuchte, GPIO, 1-Wire, etc.) und Senken (Shelly Aktoren) bezeichnet.

- influxDB (Datenbank zur Speicherung von Messwerten)
- DS18B20 (Auslesen von 1-Wire Temperatursensoren)
- HABpanel (Steuerung von Aktoren vis Webseite)
- Jeelink-Geräte (Empfangen von 868mHz LaCrosse Temperatur- und Feuchtesensoren (hier z.B. TX29DTH-IT) mit Hilfe eines Jeelink Klones)
- MQTT Broker (zur Datenverarbeitung von MQTT-fähigen Sensoren und Aktoren)
- Philips Luftreiniger (für die Anbindung eines Philips Air Purifier 4000i Series (Typ: AC4236/10)
- RPI-Monitor (Nutzung von GPIOs z.B. zum Einlesen eines Reed-Kontaktes für den Gaszähler)
- Skriptausführung (Javascript und Blockly)
- WEB-Server (für HABpanel)

admin

★★★★★

Admin

↓

Installierte Instanzen:

1

Verfügbare Version:

6.3.5

Installierte Version:

6.3.5

backupup

★★★★★

BackItUp

!

Installierte Instanzen:

1

Verfügbare Version:

2.5.12

Installierte Version:

2.5.12

influxdb

★★★★★

Daten mit InfluxDB protokollieren

↓

Installierte Instanzen:

1

Verfügbare Version:

3.2.0

Installierte Version:

3.2.0

ds18b20

★★★★★

DS18B20

↑

Installierte Instanzen:

1

Verfügbare Version:

1.6.1

Installierte Version:

1.6.1

simple-api

★★★★★

Einfache RESTful API

Verfügbare Version:

2.7.2

Installierte Version:

2.7.2

discovery

★★★★☆

Gerätesuche

Installierte Instanzen:

1

Verfügbare Version:

3.1.0

Installierte Version:

3.1.0

habpanel

★★★★★

HABpanel

↓

Installierte Instanzen:

1

Verfügbare Version:

0.5.0

Installierte Version:

0.5.0

jeelink

★★★★★

Jeelink-Geräte

Installierte Instanzen:

1

Verfügbare Version:

0.1.4

Installierte Version:

0.1.4

mqtt

★★★★★

MQTT Broker/Client

↓

Installierte Instanzen:

1

Verfügbare Version:

4.0.7

Installierte Version:

4.0.7

philips-air

★★★★☆

Philips Luftreiniger

↓

Installierte Instanzen:

1

Verfügbare Version:

1.0.1

Installierte Version:

1.0.1

rpi2

★★★★★

RPI-Monitor

↑

Installierte Instanzen:

1

Verfügbare Version:

1.3.2

Installierte Version:

1.3.2

javascript

★★★★★

Skriptausführung

Installierte Instanzen:

1

Verfügbare Version:

6.1.4

Installierte Version:

6.1.4

socketio

★★★★★

socket.io

↓

Verfügbare Version:

4.2.0

Installierte Version:

4.2.0

ws

★★★★★

Web socket

↓

Verfügbare Version:

1.3.0

Installierte Version:

1.3.0

web

★★★★☆

WEB-Server

↓

Installierte Instanzen:

1

Verfügbare Version:

4.3.0

Installierte Version:

4.3.0

Adapter konfigurieren

Die oben aufgeführten Adapter sind nach der Installation unter Instanzen zu finden und müssen dort konfiguriert werden.

1-Wire

DS18B20

Instanzeinstellungen: ds18b20.0

v2.0.4

Info

ALLGEMEINE EINSTELLUNGEN

SENSOREN

REMOTE-SYSTEME

Sensoren

Adresse	Remote-System-ID	Name	Abfrageintervall	Einheit	Faktor	Offset	Dezimalstellen	Null bei Fehler	Aktiviert	
10-00080359c712	keins	Vorlauftemperatur	Standard	°C	1	0	2	☒	☒	↓
10-00080359e7fe	keins	Rücklauftemperatur	Standard	°C	1	0	2	☒	☒	↑

JeeLink

TBC - Empfänger bauen und programmieren → TBC

Christophs DokuWiki - <https://von-thuelen.de/>

Jeelink Settings

/dev/ttyUSB0

57600

Serial port

Baud rate

/dev/ttyUSB0 or /dev/ttyACME0

usually 57600

Jeelink Command (trial)

☐ Befehl aktivieren

usually empty

Befehl für Stick-Setup

usually empty

Sensorkonfiguration

gültige Sensortypen:
emonTH, emonWater, LaCrosseDTH, LaCrosseDTT, LaCrosseBMP180, HMS100T, LaCrosseWS, EC3000, EMT7110, level

+

GET FROM ADAPTER

	id	type	uid	Name	Löschen
1	22	LaCrosseDTH	▼ Badezimmer	THS_#03	
2	43	LaCrosseDTH	▼ Küche	THS_#05	
3	21	LaCrosseDTH	▼ Wohnzimmer	THS_#06	
4	11	LaCrosseDTH	▼ Wintergarten	THS_#08	
5	14	LaCrosseDTH	▼ Schlafzimmer	THS_#04	
6	37	LaCrosseDTH	▼ Jonas	THS_#02	
7	40	LaCrosseDTH	▼ IT-Schrank	THS_#09	
8	9	LaCrosseDTH	▼ Lager	THS_#07	
9	8	LaCrosseDTH	▼ Außensensor	THS_#00	

MQTT

Für IKEA Sensoren -> Die angepasste Firmware gibt es [hier](#).

Instanzeinstellungen: mqtt.0 4.11.1 WARN

VERBINDUNG

MQTT EINSTELLUNGEN

IP

Server/Broker

☐ WebSockets benutzen

Verbindungseinstellungen

IP Adresse

Port

[IPv4] 192.168.10.11 - eth0

1883

☐ SSL

Authentifizierungseinstellungen

Benutzer

Passwort

Passwort (wiederholen)

mqttuser

Philips

**Instanzeinstellungen: philips-air.0** v1.0.3   warn 

Geräte-IP
192.168.10.125

Lebenszeitüberschreitung
30000 

Wiederverbindungsintervall
30000 

ms

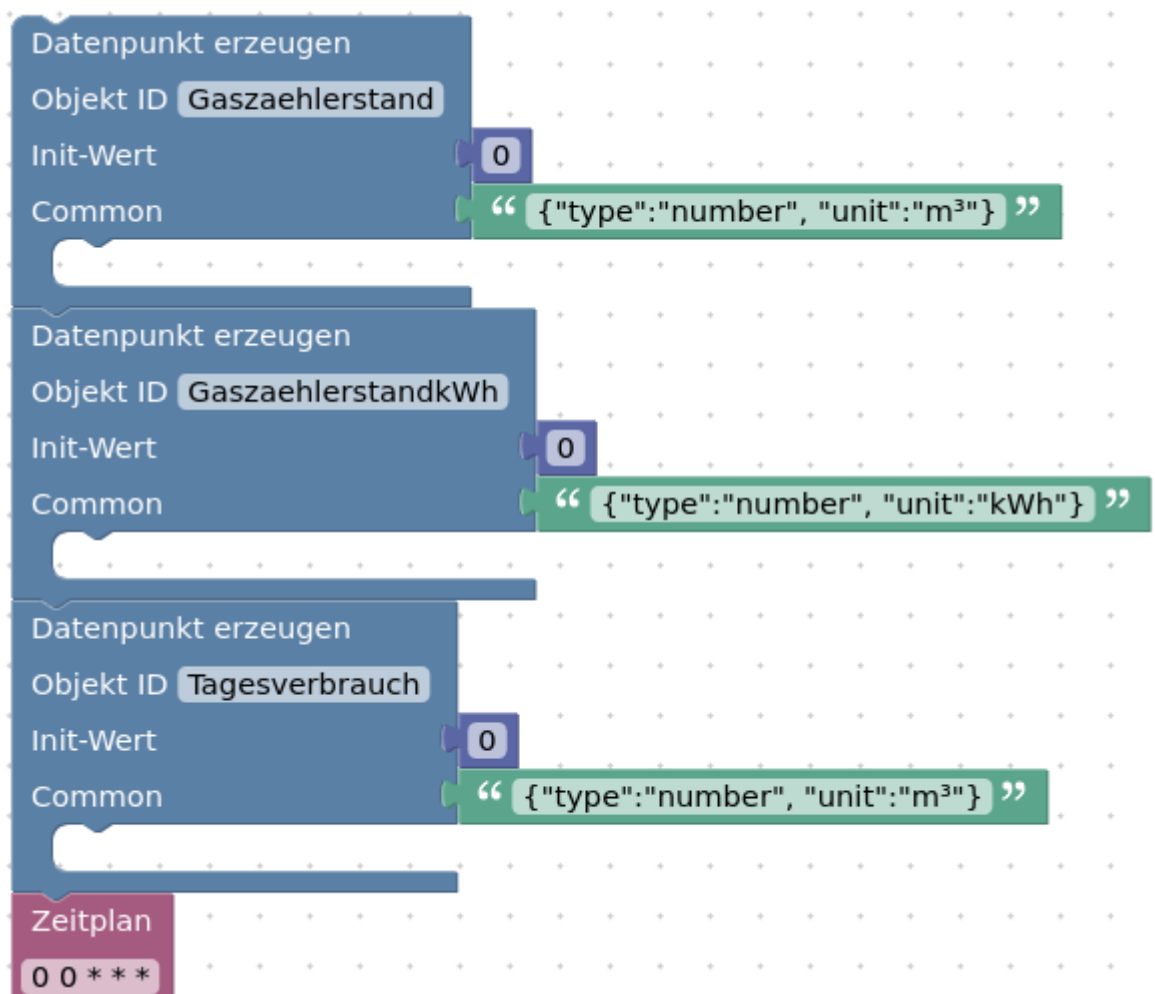
ms

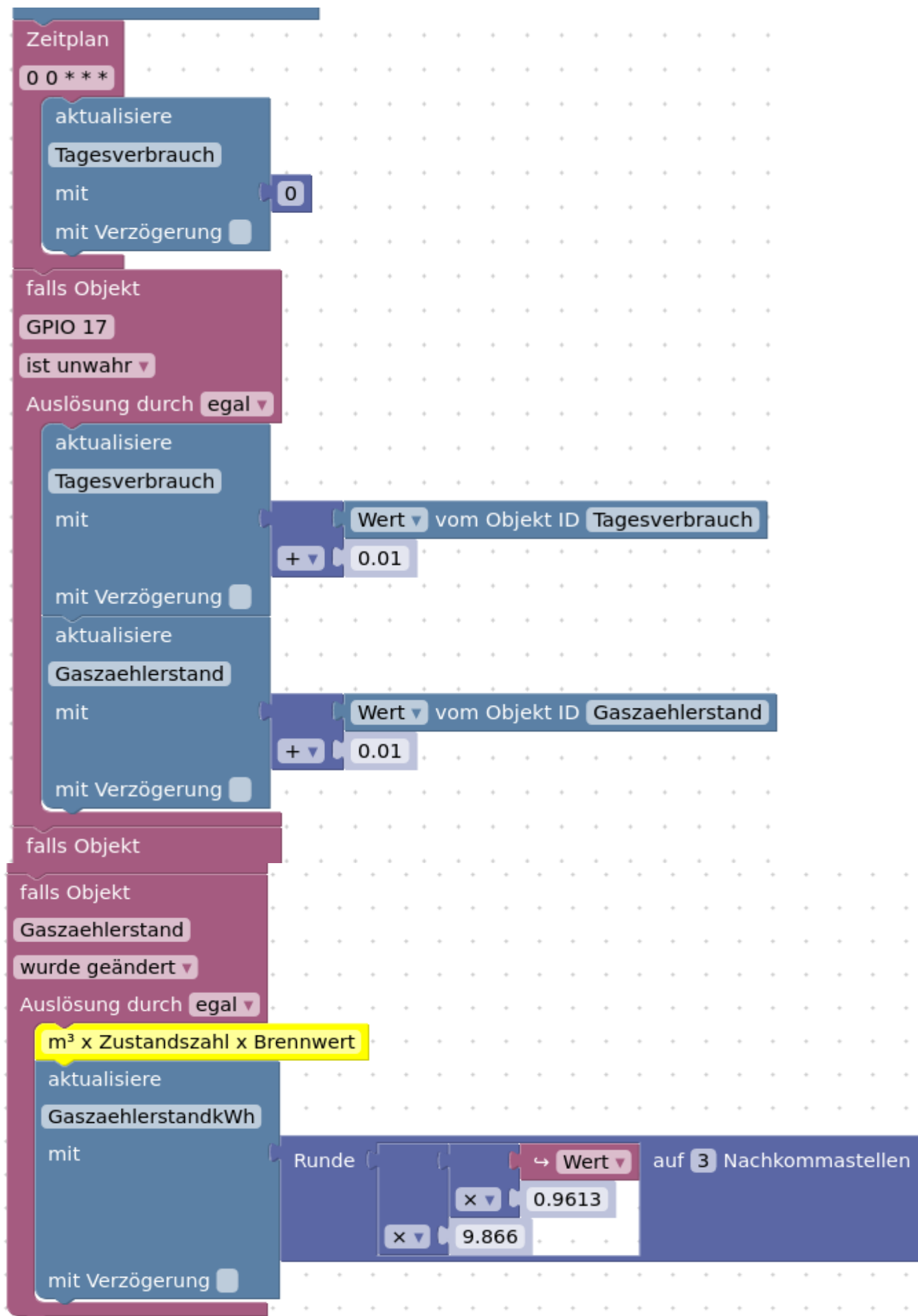
Kommunikationsprotokoll
CoAP 

Gaszähler

Reedkontakt am GPIO #?

Blockly





Und das ganze als Java Script:

```
createState('Gaszaehlerstand', 0, JSON.parse('{"type":"number",
"unit":"m³"}'), async () => {
});
createState('GaszaehlerstandkWh', 0, JSON.parse('{"type":"number",
"unit":"kWh"}'), async () => {
});
createState('Tagesverbrauch', 0, JSON.parse('{"type":"number",
"unit":"m³"}'), async () => {
});
schedule("0 0 * * *", async () => {
  setState('javascript.0.Tagesverbrauch' /* Tagesverbrauch */, 0, true);
});
on({ id: 'rpi2.0.gpio.17.state' /* GPIO 17 */, val: false }, async (obj) => {
  let value = obj.state.val;
  let oldValue = obj.oldState.val;
  setState('javascript.0.Tagesverbrauch' /* Tagesverbrauch */,
(getState('javascript.0.Tagesverbrauch').val + 0.01), true);
  setState('javascript.0.Gaszaehlerstand' /* Gaszaehlerstand */,
(getState('javascript.0.Gaszaehlerstand').val + 0.01), true);
});
on({ id: 'javascript.0.Gaszaehlerstand' /* Gaszaehlerstand */, change: 'ne'
}, async (obj) => {
  let value = obj.state.val;
  let oldValue = obj.oldState.val;
  // m³ x Zustandszahl x Brennwert
  setState('javascript.0.GaszaehlerstandkWh' /* GaszaehlerstandkWh */,
Math.round(((obj.state ? obj.state.val : "") * 0.9613 * 9.866) * 1000) /
1000, true);
});
```

```
//JTNDG1sJTIweG1sbNlM0QlMjJodHRwcyUzQSUyRiUyRmRldmVsb3BlcnMuZ29vZ2x1LmNvbS
UyRmJsb2NrbHk1MkZ4bWw1MjI1M0U1M0N1bG9jayUyMHR5cGU1M0QlMjJjcmVhdGU1MjI1MjBpZC
UzRCUyMjBCJTdCJTdETGxSZCUyQ2QhQnI2NyU0MFZsYnY1MjI1MjB4JTNEJTIyMTEzJTIyJTIweS
UzRCUyMi0xMTI1MjI1M0U1M0N1bG9jayUyMHR5cGU1M0QlMjJjcmVhdGU1MjI1MjBpZC
N0YW5kJTNDJTIwZm1lZGQ1M0U1M0N1bG9jayUyMHR5cGU1M0QlMjJjcmVhdGU1MjI1MjBpZC
NrJTIwdHlwZSUzRCUyMm1hdGhfbnVtYmV5JTIyJTIwaWw1M0QlMjJjcmVhdGU1MjI1MjBpZC
p+ZyUyMyUyNCUyNU1MkNk1MjIyJTNFJTNDZm1lZGQ1MjJjcmVhdGU1MjI1MjBpZC
UyRmZpZWxk1MjIyJTNFJTNDJTIwZm1lZGQ1MjJjcmVhdGU1MjI1MjBpZC
UyMkNPTU1PTiUyMiUzRSUzQ2Jsb2N1MjIwdHlwZSUzRCUyMm1hdGhfbnVtYmV5JTIyJTIwaWw1M0QlMjJjcmVhdGU1MjI1MjBpZC
dhSlhpQmV+MWRuJTQwU05CWEQ1NURiJTIyJTNFJTNDZm1lZGQ1MjJjcmVhdGU1MjI1MjBpZC
UzRSU3Q1UyMnR5cGU1MjI1M0U1MjI1MjBpZC
VCMyUyMiU3RCUzQyUyRmZpZWxk1MjIyJTNFJTNDJTIwZm1lZGQ1MjJjcmVhdGU1MjI1MjBpZC
Q1M0U1M0N1bG9jayUyMHR5cGU1M0QlMjJjcmVhdGU1MjI1MjBpZC
Z3ZVV5JTVEe1U1RGZlUmIqTiUyMiUzRSUzQ2ZpZWxk1MjIyJTNFJTNDJTIwZm1lZGQ1MjJjcmVhdGU1MjI1MjBpZC
N6YWVobGVyc3RhbM1MjI1M0U1MjI1MjBpZC
IyJTNFJTNDYm1lZGQ1MjI1MjBpZC
F2NEpoaVklN0NtWiU2MHR2YTQ1Mk1MjI1M0U1M0N1bG9jayUyMHR5cGU1M0QlMjJjcmVhdGU1MjI1MjBpZC
UwJTNDJTIwZm1lZGQ1MjI1MjBpZC
```

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InfluxDB

Instanzeinstellungen: influxdb.0

v3.2.0

warn

DB SETTINGS

STANDARDEINSTELLUNGEN

EXPERTENEINSTELLUNGEN

DB-Version

1.x

Protokoll

http

Server

localhost

Port

8086

Benutzer

admin

Passwort

Passwort (wiederholen)

DB Name

iobroker

Request Timeout

30000

Millisekunden

Runden Sie bei der Abfrage die Zahlen auf

4

☒ Protokollieren Sie den letzten Wert erneut beim Start

Schreibaktionen zusammenfassen

0

Schreibintervall

60

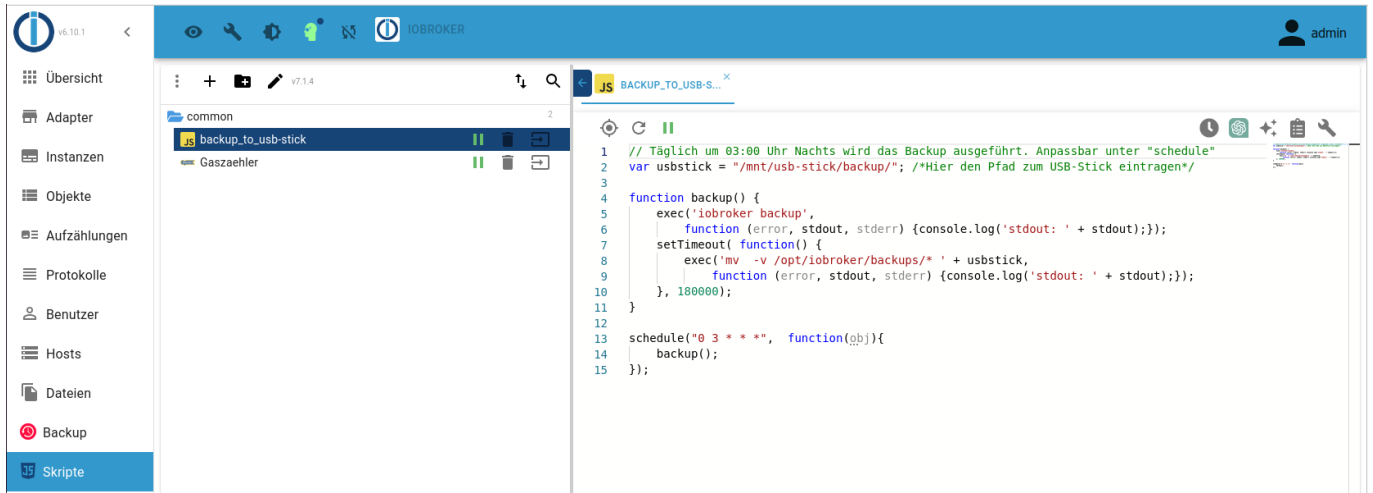
Sekunden

Wert 0 schreibt Werte direkt

DIE VERBINDUNG ZUM SERVER TESTEN

ALLE DATEN IN DATENBANK LÖSCHEN

Backup durch Script



```

// Täglich um 03:00 Uhr Nachts wird das Backup ausgeführt. Anpassbar unter
"schedule"
var usbstick = "/mnt/usb-stick/backup/"; /*Hier den Pfad zum USB-Stick
eintragen*/

function backup() {
    exec('iobroker backup',
        function (error, stdout, stderr) {console.log('stdout: ' +
stdout)});
    setTimeout( function() {
        exec('mv -v /opt/iobroker/backups/* ' + usbstick,
            function (error, stdout, stderr) {console.log('stdout: ' +
stdout)});
    }, 180000);
}

schedule("0 3 * * *", function(obj){
    backup();
});

```

Update und Bugfixing

```

iobroker stop
iobroker update
iobroker fix
# oder curl -sL https://iobroker.net/fix.sh | bash -
iobroker upgrade self
iobroker start

```

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