

Neuinstallation ioBroker auf einem R-Pi 3 B+

Quellen:

- [Raspberry Pi OS und ggf. Image Writer](#)
- [Raspi-Config Kommandozeilen Optionen](#)
- [ioBroker](#)
- [InfluxDB Installation](#)
- [InfluxDB 1.x Installation](#)
- [Grafana Installation](#)
- [Grafana ohne Login](#)
- [Verbindung InfluxDB 2.0 <-> Grafana](#)
- [Jeelink Klon](#)
- [LaCrosse Temperatur- & Feuchtesensor TX29DTH-IT, 868 MHz](#)
- [FHEM Wiki zu JeeLink/Lacrosse Klon im Eigenbau](#)
- [Arduino Sketch für JeeLink Empfänger](#)
- [Verdrahtung Arduino Nano und 868 MHz RF-Modul](#)

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 intallieren:
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
# nicht benötigte Dienste beenden und/oder entfernen:
systemctl disable ModemManager.service
systemctl stop ModemManager.service
apt-get purge modemmanager
```

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 "iobroker"
```

```
> GRANT ALL ON "iobroker" 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 = true
```

```
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 Klonen)
- 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)

Adapter	Installierte Instanzen	Verfügbare Version	Installierte Version
admin	1	6.3.5	6.3.5
backitup	1	2.5.12	2.5.12
influxdb	1	3.2.0	3.2.0
ds18b20	1	1.6.1	1.6.1
simple-api		2.7.2	2.7.2
discovery	1	3.1.0	3.1.0
habpanel	1	0.5.0	0.5.0
jeelink	1	0.1.4	0.1.4
mqtt	1	4.0.7	4.0.7
philips-air	1	1.0.1	1.0.1
rpi2	1	1.3.2	1.3.2
javascript	1	6.1.4	6.1.4
socketio		4.2.0	4.2.0
ws		1.3.0	1.3.0
web	1	4.3.0	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

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

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 v4.1.1 🔄 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

ms

Wiederverbindungsintervall

30000

ms

Kommunikationsprotokoll

CoAP

Gaszähler

Reedkontakt am GPIO #17



Übersicht

Adapter

Instanzen

Objekte

Aufzählungen

Protokolle

Benutzer

Hosts

Dateien

Backup

Skripte

Benutzer

Hosts

Dateien

Backup

Skripte

Instanzeinstellungen: rpi2.0

GPIOs

☒ Die Eingänge sind hochgezogen

100

☐ Die Tasten sind hochgezogen

Entprellungszeitraum für Schaltflächen (ms)

Taste lange Druckdauer (ms)

Doppelklickzeit (ms)

Abfrageintervall für DHTxx / AM23xx-Geräte (ms)

Empfohlenes Minimum ist 2s. Auf Null setzen, um die Abfrage zu deaktivieren.

Port numbers relate to Broadcom SOC channel, not physical pins.

☐ Enable 2

Typ

Eingang

Etikette

☐ Enable 16

Typ

Eingang

Etikette

☒ Enable 17

Typ

Eingang

Etikette

Gaszähler

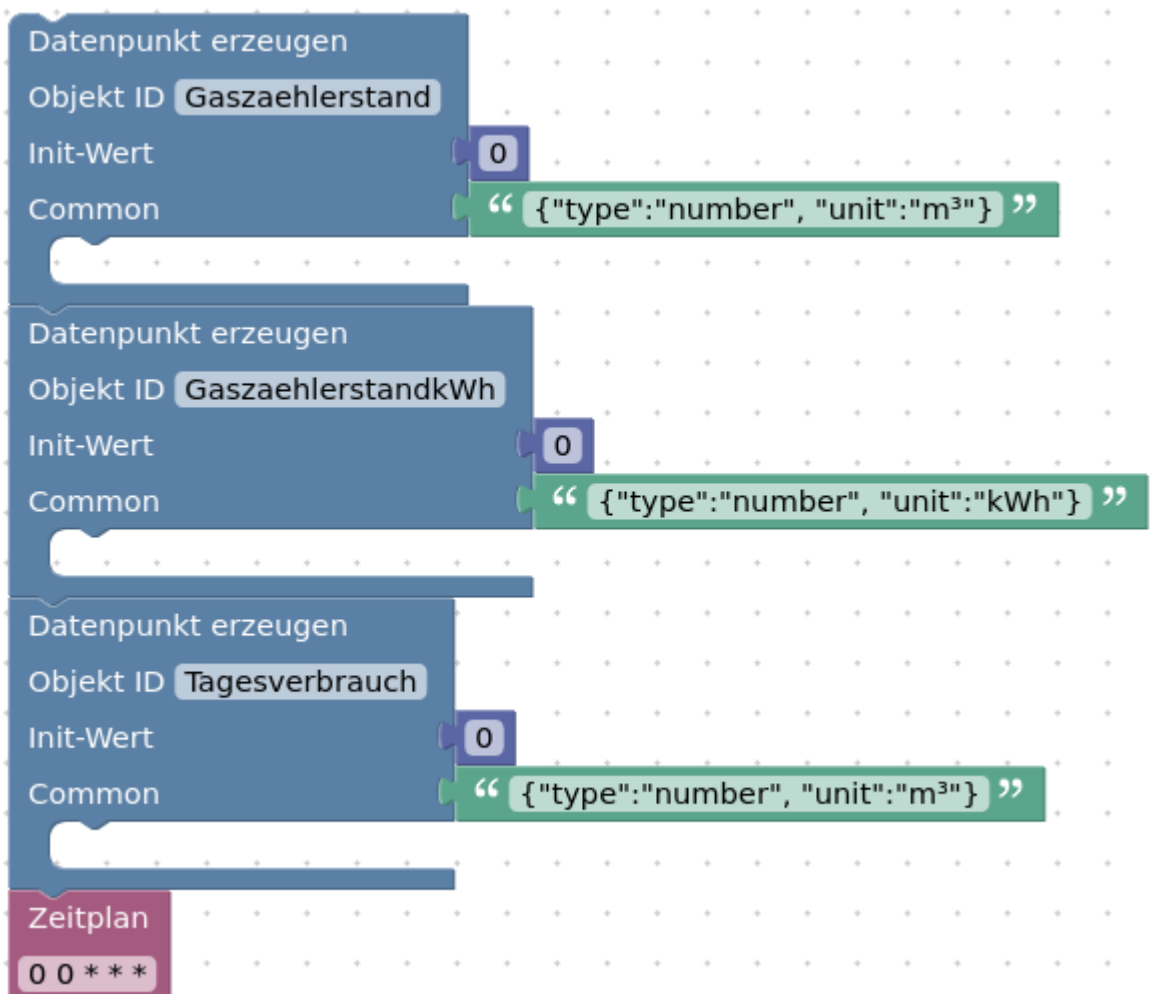
☐ Enable 18

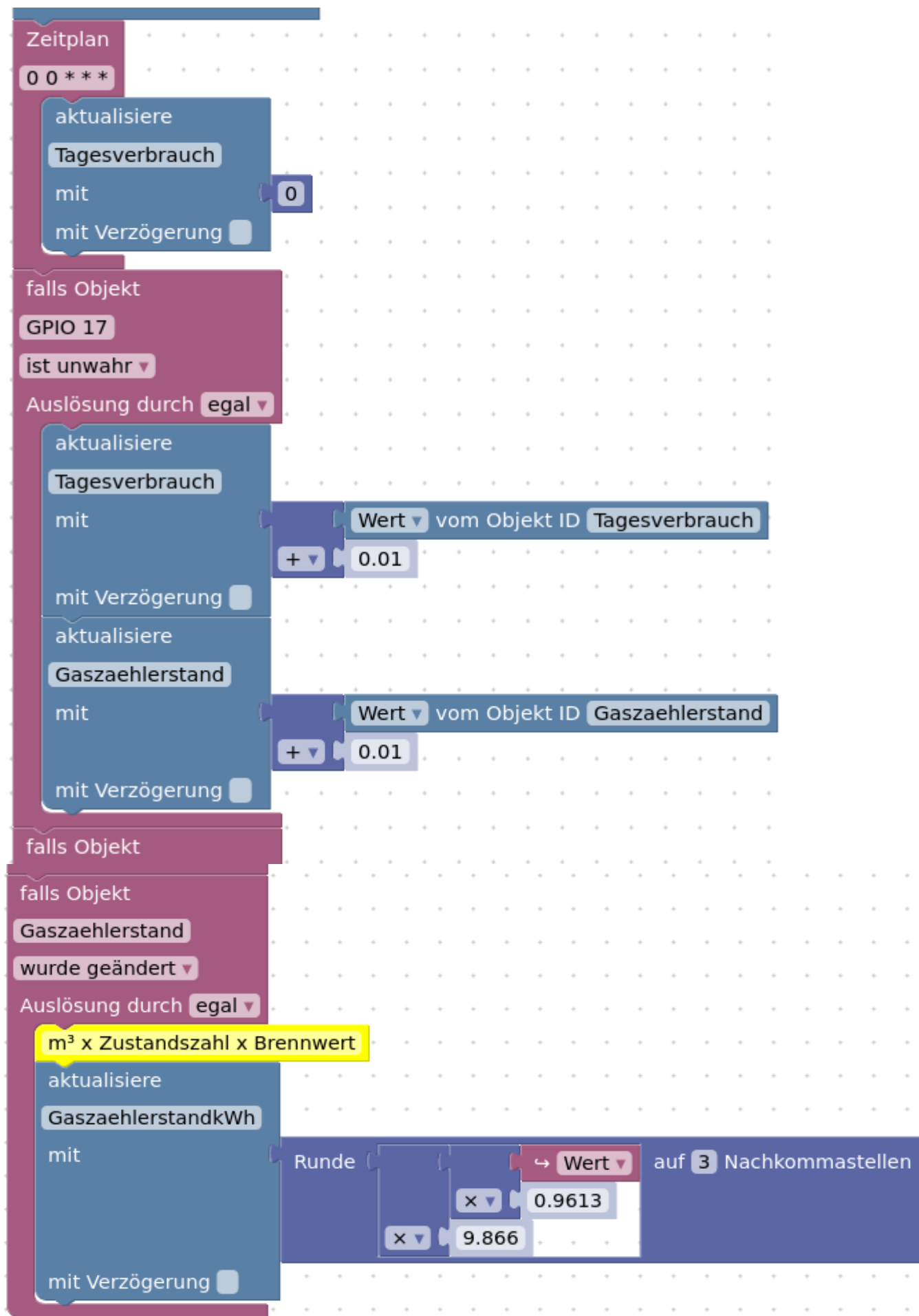
Typ

Eingang

Etikette

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);
});
```

```
//JTNDeg1sJTIweG1sbnMlM0QlMjJodHRwcyUzQSUyRiUyRmRldmVsb3BlcnMuZ29vZ2xlLmNvbS
UyRmJsb2NrYHkLMkZ4bWwLMjIlM0Ulm0NlbG9jayUyMHR5cGUlM0QlMjJjcmVhdGUlMjIlMjBpZC
UzRCUyMjBCJlTdTdCJlTdTdGxSZCUyQ2QhQnI2NyU0MFZsYnYlMjIlMjB4JTNEJTIyMTZlZTIyJTIweS
UzRCUyMi0xMjIlMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJ0QU1FJTIyJTlFR2FzemFlaGxlcn
N0YW5kJTNDJTIJGZmlbGQlM0Ulm0N2YwX1ZSUyMG5hbWUlm0QlMjJWQUxVRSUyMiUzRSUzQ2Jsb2
NrJTIwdHlwZSUzRCUyMm1hdGhfbnVtYmVyJTIyJTIwaWwQlM0QlMjJ6Q01lWiUzQiUyNCUzRGV2c1
p+ZyUyMyUyNCUyNUlMkNkJTIyJTlFJTNDZmlbGQlMjBuYw1lJTNEJTIyTlVnJTIyJTlFMCUzQy
UyRmZpZWxkJTlFJTNDJTIJGymxvY2slM0Ulm0MlMkZ2YwX1ZSUzRSUzQ3ZhbHVlJTIwbmFtZSUzRC
UyMkNPTU1PTiUyMiUzRSUzQ2Jsb2NrJTIwdHlwZSUzRCUyMnRleHQMjIlMjBpZCUzRCUyMiUyQn
dhSlhpQmV+MWRuJTQwU05CWEQlNURiJTIyJTlFJTNDZmlbGQlMjBuYw1lJTNEJTIyVEVYVCUyMi
UzRSU3QiUyMnR5cGUlMjIlM0ElMjJlMjIlMjIlMkMlMjAlMjJlMjIlMjIlMjIlMjIlMjIlMjIlMjIl
VCMYUyMiU3RCUzQyUyRmZpZWxkJTlFJTNDJTIJGymxvY2slM0Ulm0MlMkZ2YwX1ZSUzRSUzQ25leH
QlM0Ulm0NlbG9jayUyMHR5cGUlM0QlMjJjcmVhdGUlMjIlMjBpZCUzRCUyMjIlNUlM0QlNUREKlM
Z3ZVV5JTVEeiu1RGZlUmIqTiUyMiUzRSUzQ2ZpZWxkJTIwbmFtZSUzRCUyMk5BTUUlMjIlM0VHYX
N6YWVobGVyc3RhbmRrV2glM0MlMkZmaWVsZCUzRSUzQ3ZhbHVlJTIwbmFtZSUzRCUyMlZBTfVFJT
IyJTlFJTNDYmxvY2slMjB0eXB1JTNEJTIybwF0aF9udW1lZlMjIlMjBpZCUzRCUyMjIlMjN2a1
F2NEp0aVklN0NtWiU2MHR2YTQlMkIlMjIlM0Ulm0NmaWVsZCUyMG5hbWUlm0QlMjJ0VU0lMjIlM0
```

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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

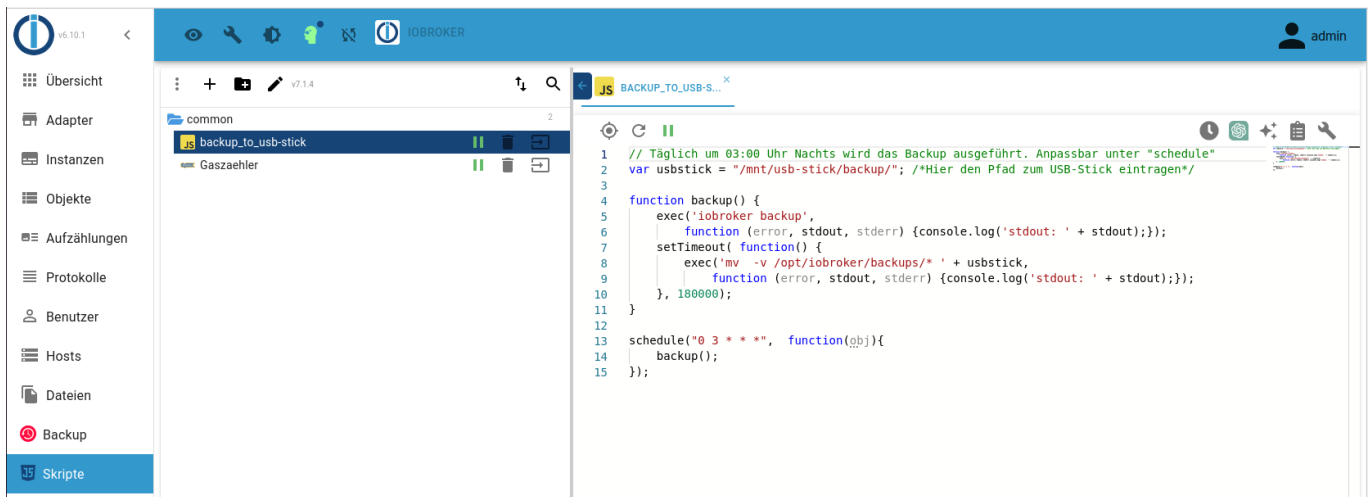
Sekunden

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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