

# Cerbo

## Step 1: Update Git

1. Update local git repo to get the newest **Cerbo\_Release** folder (under **firmware** directory), which contains **NodeRedFiles** and **update\_Cerbo.py**
2. Please make sure **NodeRedFiles** and **update\_Cerbo.py** are in the same directory

## Step 2: Create bucket and update config.py

1. Open [Installation\\_Data.xlsx](#) at **Cerbo** sheet
2. Go to [monitor](#) and click **Add new Installation** button

Installation Name \*

Region \*

Location \*

Country \*

VpnIp \*

VRM Link \*

Information

Submit Cancel

3. Copy **Installation Name**, **VpnIp** and **VRM Link(only the number before /dashboard in the link as follows)** from the sheet to here. Fill out **Region**, **Location** and **Country** using Google Map. And then press **Submit**.  
★ Location<Region<Country

- ★ <https://vrm.victronenergy.com/installation/182172/dashboard>
- 4. Go to **Information** tab of the installation and copy **S3 Bucket Name**, **S3 Write Key**, **S3 Write Secret** one by one to update **s3 configuration** in **config.py** in **NodeRed/NodeRedFiles/dbus-fzsonick-48tl**
  - ★ For the S3 bucket name, only need to change the installation id at the beginning.
  - ★ **Please make sure to copy the full key content.**
  - ★ **Please bear in mind that this step needs to be done for each installation!!!**

Installation Name: Grundmann, Aarberg/BE | KWenergy GmbH (2020-00049)

Status: ●

Installation Name  
Grundmann, Aarberg/BE | KWenergy GmbH (2020-00049)

Region \*  
Bern

Location \*  
Aarberg

Country \*  
Switzerland

VPN IP  
10.2.0.155

Information

S3 Bucket Name  
10-c0436b6a-d276-4cd8-9c44-1eae86cf5d0e

S3 Write Key  
EXOa8cc58d2e51e389fed9ccbfa

S3 Write Key  
hofDGMmSSN1OACYXHWURUGdG61mFjBxKC18sF0VpMQgY

Apply changes Delete Installation

```

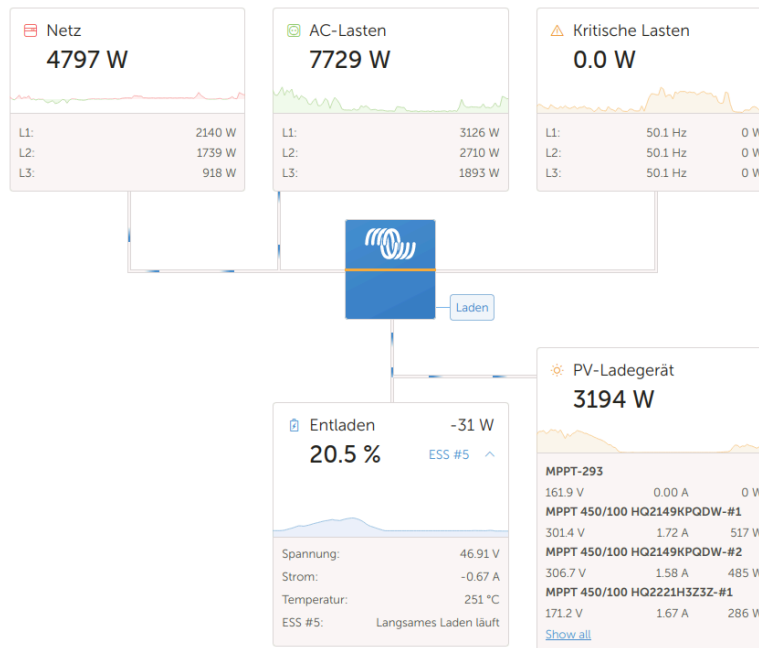
14
15 #s3 configuration
16 S3BUCKET = "2-c0436b6a-d276-4cd8-9c44-1eae86cf5d0e"
17 S3KEY = "EX05b2e35442791260eaaa7bdc8"
18 S3SECRET = "XFF0VzenDiE0oLPmhK6ML9RfQfsAMhrAs25MfJxi-24"
19

```

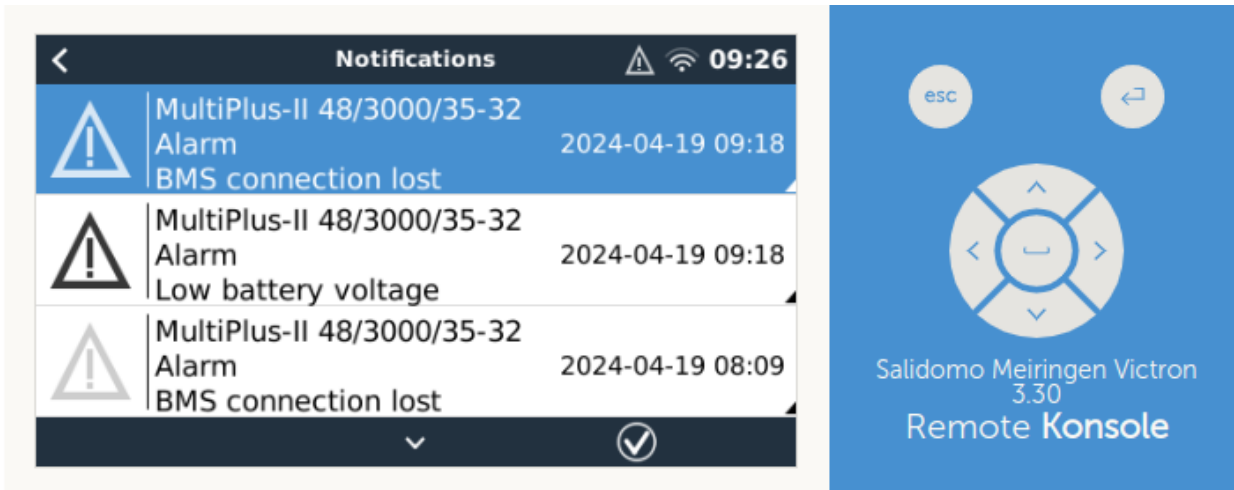
### Step 3: All magic here

1. Navigate to **NodeRed** directory in any kind of terminal
2. Run the script with the command: `python3 update_Cerbo.py <VPN_IP>`
  - ★ Replace <VPN\_IP> with the actual VPN ip of the installation
  - ★ The way to check whether the Cerbo is back is to ssh or open VRM to check Remote Console.
  - ★ If it gets stuck after a firmware update for a long time, try press Enter in the console where this script is running.

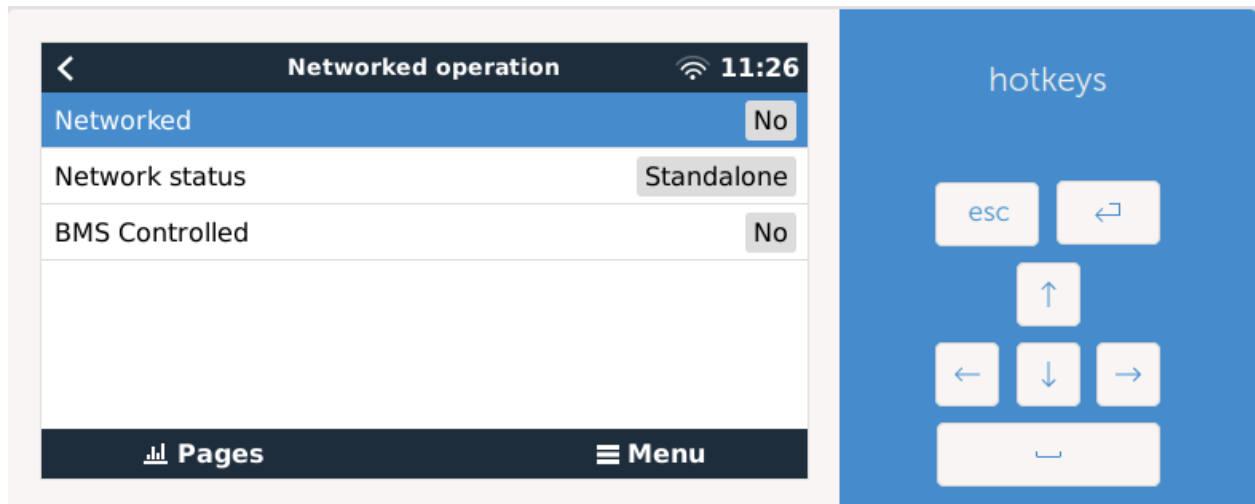
### Step 4: Disconnect MPPT with BMS if there is PV on DC



1. If the installation has PV on the battery side as above, there would be an alarm in **Remote Console** in **VRM** complaining BMS connection lost from MultiPlus as follows



2. Go to **Menu=>Device List=>SmartSolar MPPT VE.Can 250/100 rev2=>Networked operation=>BMS Controlled**, press **Press to reset**. It turns out to be No as follows.



★ There may be more than 1 MPPT in an installation as shown in Device List, please repeat this step for each of them!!!

## Step 5: Check everything works well

1. Whether the battery is there on VRM
2. Whether the battery is there on monitor