



Is this cheating?

Ideas that may give you advantage ...over mere mortals

By Julio C Hegedus



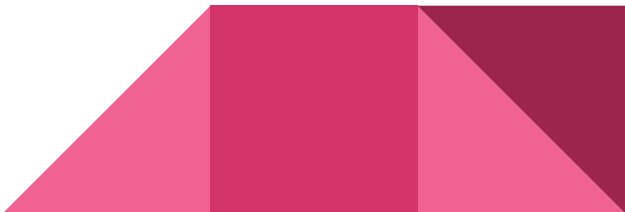
10 Fingers -- Where did it all start?

Skills and capacity will evolve with the tech you use.

For math we start with 10 fingers, and moved on to:

- Abacus
- Calculators
- Computers in general
- Smartphones
- Smartwatches

... and now my wife, as she is the household money controller,
and the purest source of truth.



FOSS Smartwatch + WebCheck “v1”



Supply chain problems

Chips are scarce, no availability of products, long wait lines, endless website refreshes

Home / Smartwatches / PineTime SmartWatch (sealed)



PineTime SmartWatch (Sealed)

Community price: \$26.99

(Retail price: \$34.99)

***** Disclaimer *****

- Please keep in mind that doing development on a sealed device is MORE difficult, as there is no access to the low-level firmware that allows you to recover from mistakes. Please read the wiki and join the chat if you have any questions about the limitations imposed.
- Pine64 and Pine Store are not responsible for bricked devices due to flashed firmware.
- ** If you want to do development, you need to buy the PineTime SmartWatch (development) version.

Supply chain problems

Chips are scarce, no availability of products, long wait lines, endless website refreshes

Home / Smartwatches / PineTime SmartWatch (sealed)



PineTime SmartWatch (sealed)

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- Please keep in mind that doing development on a sealed device is MORE difficult, as there is no access to the low-level firmware that allows you to recover from mistakes. Please read the wiki and join the chat if you have questions about the limitations imposed.
- Pine64 and Pine Store are not responsible for bricked devices due to flashed firmware.
- ** If you want to do development, you need to buy the PineTime SmartWatch (unsealed).

Web-the-check-out or BUST!

Web monitoring

All templates / PineTime Wait Items Triggers 1 Graphs Dashboards Discovery rules Web scenarios 1

Scenario Steps 1 Tags 1 Authentication

* Name

* Update interval

* Attempts

Agent

HTTP proxy

STEP 1 -- WebCheck Scenario

Web-the-check-out or BUST!

Web monitoring

All templates / PineTime Wait Items Triggers 1 Graphs Dashboards Discovery rules Web scenarios 1

Scenario Steps 1 Tags 1 Authentication

* Name OutOfStock

* Update interval 1m

* Attempts 1

Agent Opera 67 (Windows)

HTTP proxy [protocol://[user[:password]@]proxy.example.com[:port]]

STEP 2 -- WebCheck Step for Scenario

Step of web scenario

* Name InStock

* URL https://pine64.com/product/pinetime-smartwatch-sealed/ Parse

Query fields

Name	Value	
name	value	Remove

Add

Post type Form data Raw data

Post fields

Name	Value	
name	value	Remove

Add

Variables

Name	Value	
name	value	Remove

Add

Headers

Name	Value	
name	value	Remove

Add

Follow redirects ☐

Retrieve mode Body Headers Body and headers

* Timeout 15s

Required string Out of stock

Required status codes 200

Update Cancel

Web-the-check-out or BUST!

Web monitoring

All templates / PineTime Wait Items Triggers 1 Graphs Dashboards Discovery rules Web scenarios 1

Scenario Steps 1 Tags 1 Authentication

* Name OutOfStock

* Update interval 1m

* Attempts 1

Agent Opera 67 (Windows)

HTTP proxy [protocol://][user[:password]@]proxy.example.com[:port]

Triggers

STEP 3 -- Trigger for Webcheck

All templates / PineTime Wait Items Triggers 1 Graphs Dashboards Discovery rules Web scenarios 1

Trigger Tags Dependencies

* Name Stats of PineTime Changed

Event name Stats of PineTime Changed

Operational data

Severity Not classified Information Warning Average High **Disaster**

* Expression last(/PineTime Wait/web.test.fail[OutOfStock])>0 Add

Step of web scenario ? x

* Name InStock

* URL https://pine64.com/product/pinetime-smartwatch-sealed/ Parse

Query fields

Name	Value	
name	value	Remove

Add

Post type Form data Raw data

Post fields

Name	Value	
name	value	Remove

Add

Variables

Name	Value	
name	value	Remove

Add

Headers

Name	Value	
name	value	Remove

Add

Follow redirects ☐

Retrieve mode Body Headers Body and headers

* Timeout 15s

Required string Out of stock

Required status codes 200

Update Cancel

Stock Replenished!

Mission Accomplished!

At some point, months later, the trigger went off!

Problem • Severity	Operational data
Stats of PineTime Changed	1

It is Check out time!

Cart

ⓘ In general, custom tax and VAT not included except PinePhone EU VAT batch. We can only hold your item for 11 hour 59 minutes and 51 seconds!

		Product	Price	Quantity	Subtotal
x		PineTime SmartWatch (sealed)	\$26.99	1	\$26.99
Coupon c		Apply coupon		Update cart	



Modern Computers - Web version Z? - JavaScript - ...

From basic HTML to PHP (2000+)

From Server Side to Client Side

From Basic Databases and Backends to API Sources and Microservices (2010+)

From Zabbix Webcheck to Web.Page.Get and HTTP Client

From Single Items to Prototypes, Preprocessing and other Magic stuff

O.M.G. J.S.O.N.! (is that good or bad? I dunno.)



Building an IKEA Kitchen

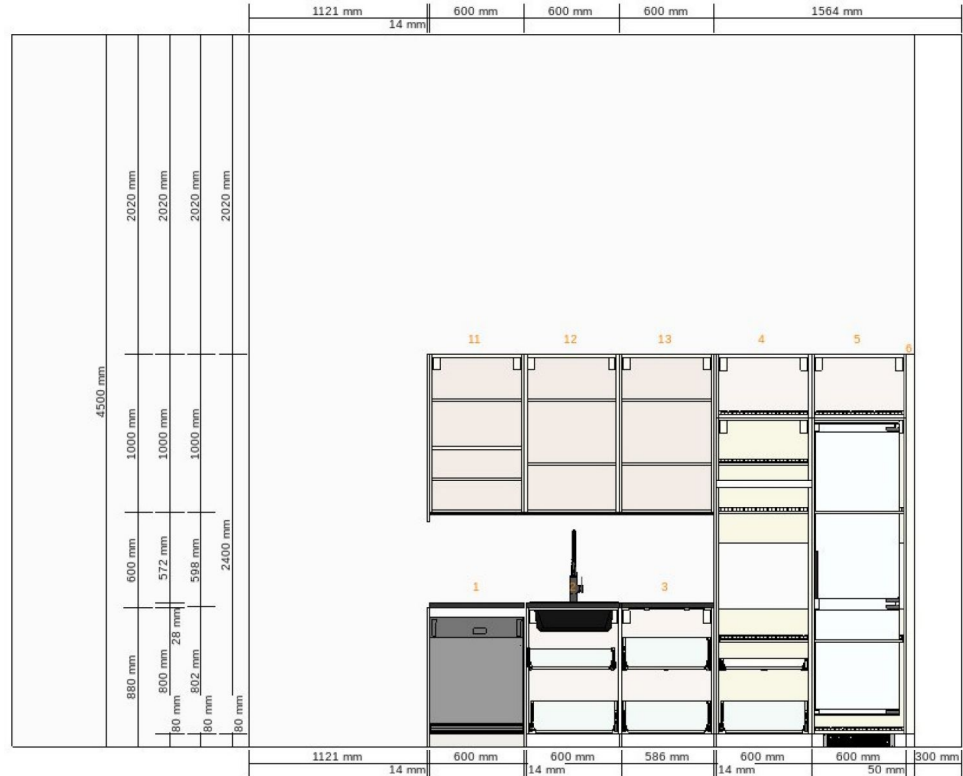
...Is a real nightmare...



IKEA Supply chain issues - No availability of Items

STEP 1

Make Project on IKEA



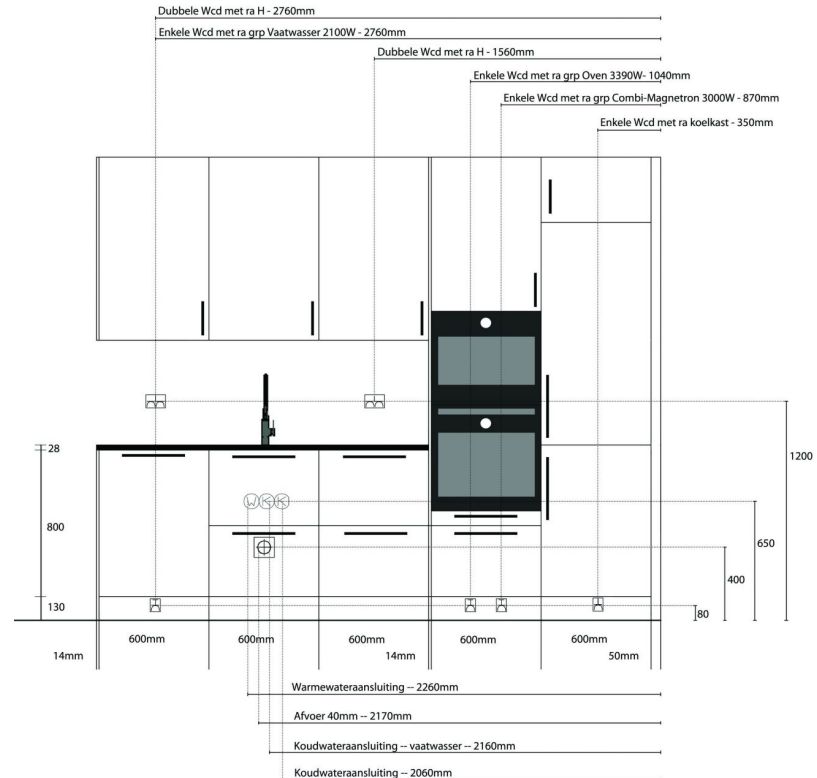
IKEA Supply chain issues - No availability of Items

STEP 1

Make Project on IKEA

STEP 2

Make Project for builders



IKEA Supply chain issues - No availability of Items

STEP 1

Make Project on IKEA

STEP 2

Make Project for builders

STEP 3

6 months before the house is ready, buy the kitchen! (or not)



PROFFSIG

Integrated dishwasher, IKEA 700, 60 cm

★★★★★ (7)



[Product information sheet](#)

ⓘ Worktop, door, plinth and handles are sold separately.

5 5 year guarantee

How to get it Image Size: 1.705x711 pixels



Delivery

Currently unavailable



Click & Collect

Currently unavailable for Click & Collect in all IKEA stores



In store

Out of stock at IKEA [Delft](#) and all other stores

[Notify me](#)

Backorders + Zabbix >v5 Web Plumbing



Zabbix and modern Web Checks to the rescue

STEP 1 -- What I need?



Find and pick up at your local
IKEA store

Search by city, state

Stores with available stock



Amersfoort

Euroweg 101, Amersfoort



☒ In stock

Amsterdam

Hullenbergweg 2, Amsterdam



☒ In stock

Barendrecht

Hamburg 1, Barendrecht



☒ In stock

The screenshot shows the Chrome DevTools Network tab with a JSON response from the IKEA API. The response is a list of store locations with details like name, address, and stock status. The 'Amersfoort' store is highlighted in the list.

```
{
  "id": "415",
  "name": "IKEA Amersfoort",
  "lat": "52.1844",
  "lng": "5.4183",
  "address": {
    "street": "OLOF PALMESTRAAT 1",
    "zipCode": "2616 LN",
    "city": "DELFT",
    "timezone": "Europe/Amsterdam"
  },
  "buClassification": {
    "code": "STORE",
    "name": "IKEA STORE"
  },
  "display": {
    "name": "IKEA STORE",
    "displayName": "Delft"
  },
  "extras": {
    "restaurant": {
      "heading": "Closed"
    },
    "bistro": {
      "heading": "Closed"
    },
    "smaland": {
      "heading": "Closed"
    }
  },
  "hours": {
    "exceptions": [],
    "normal": {
      "day": "MON",
      "open": "10:00",
      "close": "21:00",
      "day": "TUE",
      "open": "10:00",
      "close": "21:00"
    }
  },
  "id": "151",
  "lat": "52.0127",
  "lng": "4.3816",
  "name": "IKEA Delft",
  "placeId": "ChIJ0i07vC1uCrZIA27z1-1Q1c",
  "storePageUrl": "https://www.ikea.com/nl/en/stores/delft/"
}
```

Zabbix and modern Web Checks to the rescue

Items **STEP 2 -- Make Zabbix see it!**

All hosts / arch-delta-cloud Enabled **ZBX** Items 215 Triggers 111 Graphs 28 Discovery rules 9 Web scenarios 9

Item Tags 1 Preprocessing 1

Parent items **IKEA hacks**

* Name Store Master PROFFSIG

Type HTTP agent

* Key get_store_status_PROFFSIG

Type of information Text

* URL **https://api.ingka.ikea.com/cia/availabilities/ru/nl** Parse

Query fields

Name	Value
ItemNos	40475421 Remove
expand	StoresList Remove

Add

Request type GET

* Timeout 5s

Request body type Raw data JSON data XML data

Request body

Headers

Name	Value
authority	api.ingka.ikea.com Remove
pragma	no-cache Remove
cache-control	no-cache Remove

sec-ch-ua "Not A;Brand";v="99", "Chromium" Remove

accept application/json;version=2 Remove

x-client-id ac8b6bc1-b924-4bba-ba90-25161f Remove

sec-ch-ua-mobile ?0 Remove

user-agent Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/100.0.0.0 Safari/537.36 Remove

origin https://www.ikea.com Remove

sec-fetch-site same-site Remove

sec-fetch-mode cors Remove

sec-fetch-dest empty Remove

accept-language en-GB,en-US;q=0.9,en;q=0.8,nl;q=0.7 Remove

Add

Required status codes 200

Follow redirects ☒

Retrieve mode Body Headers Body and headers

Convert to JSON ☐

HTTP proxy [protocol://][user[:password]@][proxy.example.com[:port]]

HTTP authentication None

SSL verify peer ☐

SSL verify host ☐

SSL certificate file

SSL key file

SSL key password

Interface **192.168.44.117:10050**

* Update interval 1h

Custom intervals

Type	Interval	Period	Action
Flexible	Scheduling	50s	1-7,00:00-24:00 Remove

Add

Zabbix and modern Web Checks to the rescue

STEP 3 -- JSON Focusing

Items

All hosts / arch-delta-cloud Enabled ZBX Items 215 Triggers 111 Graphs 28 Discovery rules 9 Web scenarios 9

Item Tags 1 Preprocessing 1

Preprocessing steps	Name	Parameters	Custom
1:	JSONPath	\$.availabilities	☐
Add			
Type of information	Text		
<button>Update</button><button>Clone</button><button>Execute now</button><button>Test</button><button>Clear history and trends</button><button>Delete</button><button>Cancel</button>			

Zabbix and modern Web Checks to the rescue

STEP 4 -- Discovery based on JSON

Discovery rules

All templates / [IKEA hacks](#) / [Discovery list](#) / [Stores for FINSMKARE](#) / [Item prototypes 2](#) / [Trigger prototypes 1](#) / [Graph prototypes](#) / [Host prototypes](#)

[Discovery rule](#) / [Preprocessing](#) / [LLD macros 1](#) / [Filters](#) / [Overrides](#)

* Name

Type

* Key

* Master item

* Keep last resources period

Description

Enabled ☒



Zabbix and modern Web Checks to the rescue

STEP 5 -- Extract Store ID's so I can ask about them

Discovery rules

All templates / IKEA hacks / Discovery list / Stores for FINSMÅKARE / Item prototypes 2 / Trigger prototypes 1 / Graph prototypes / Host prototypes

Discovery rule / Preprocessing / LLD macros 1 / Filters / Overrides

LLD macros

LLD macro

{#STORE_ID}

Add

JSONPath

\$.classUnitKey.classUnitCode

Remove

Update

Clone

Test

Delete

Cancel

Zabbix and modern Web Checks to the rescue

STEP 6 -- Make the Item using that ID but fetching another part of the JSON

Item prototypes

[All templates](#) / [IKEA hacks](#) / [Discovery list](#) / [Stores for FINSMKARE](#) / **Item prototypes 2** / [Trigger prototypes 1](#) / [Graph prototypes](#) / [Host prototypes](#)

[Item prototype](#) / [Tags 1](#) / [Preprocessing 1](#)

* Name

Type

* Key

Type of information

* Master item

* History storage period

Description

Item prototypes

[All templates](#) / [IKEA hacks](#) / [Discovery list](#) / [Stores for FINSMKARE](#) / **Item prototypes 2** / [Trigger prototypes 1](#) / [Graph prototypes](#) / [Host prototypes](#)

[Item prototype](#) / [Tags 1](#) / **[Preprocessing 1](#)**

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1:	JSONPath	\$[?(@.classUnitKey.classUnitCode == '{#STORE_ID}')]availableF	☐	Test Remove
	Add			Test all steps
Type of information	Text			
	Update	Clone	Test	Delete Cancel



Zabbix and modern Web Checks to the rescue

STEP 6 -- The Magical Line

```
$.[?(@.classUnitKey.classUnitCode == '#{STORE_ID}')].availableForClickCollect.first()
```



Item prototypes

[All templates](#) / [IKEA hacks](#) / [Discovery list](#) / [Stores for FINSMARKARE](#) / **Item prototypes 2** / [Trigger prototypes 1](#) / [Graph prototypes](#) / [Host prototypes](#)

Item prototype / [Tags 1](#) / **Preprocessing 1**

Preprocessing steps

Name

Parameters

Custom on fail

Actions

1:

JSONPath

\$.[?(@.classUnitKey.classUnitCode == '#{STORE_ID}')].availableF

☐

[Test](#) [Remove](#)

[Add](#)

[Test all steps](#)

Type of information

Text

[Update](#)

[Clone](#)

[Test](#)

[Delete](#)

[Cancel](#)

Zabbix and modern Web Checks to the rescue

STEP 6 -- The Magical Line

```
$.[?(@.classUnitKey.classUnitCode == '#{STORE_ID}')].availableForClickCollect.first()
```

https://www.zabbix.com/documentation/6.2/en/manual/config/items/preprocessing/jsonpath_functionality

Item prototypes

[All templates](#) / [IKEA hacks](#) / [Discovery list](#) / [Stores for FINSMARKARE](#) / **Item prototypes 2** / [Trigger prototypes 1](#) / [Graph prototypes](#) / [Host prototypes](#)

Item prototype / [Tags 1](#) / **Preprocessing 1**

Preprocessing steps

Name

Parameters

Custom on fail

Actions

1:

JSONPath

▼

\$.[?(@.classUnitKey.classUnitCode == '#{STORE_ID}')].availableF

☐

[Test](#) [Remove](#)

[Add](#)

[Test all steps](#)

Type of information

Text

▼

Update

Clone

Test

Delete

Cancel

Zabbix and modern Web Checks to the rescue

STEP 7 -- Make the Trigger!

Trigger prototypes

[All templates](#) / [IKEA hacks](#) / [Discovery list](#) / [Stores for FINSMAKARE](#) / [Item prototypes 2](#) / [Trigger prototypes 1](#) / [Graph prototypes](#) / [Host prototypes](#)

[Trigger prototype](#) / [Tags 1](#) / [Dependencies](#)

* Name

Event name

Operational data

Severity

☐ Not classified

☐ Information

☐ Warning

☐ Average

☐ High

☒ Disaster

* Expression

[Expression constructor](#)



Problem averted, ... It is Available!

UNCK Problems					
Time ▼	Info	Host	Problem • Severity	Operational data	Duration
08:18:56	•	arch-delta-cloud	PROFFSIG Is Available at store 274	true, true	2h 5m 4s
08:00	○				
07:18:55	•	arch-delta-cloud	PROFFSIG Is Available at store 089	true, true	3h 5m 5s
07:00	○				
06:18:55	•	arch-delta-cloud	PROFFSIG Is Available at store NL	true, true	4h 5m 5s
06:18:55	•	arch-delta-cloud	PROFFSIG Is Available at store 151	true, true	4h 5m 5s

Now.. is that really visible and will I be able to react on time?

Afterall I do not glue my face on the computer and wait for the trigger to go off.

There comes notifications and my Magic Mirror to the rescue!

Zabbix as broker for IoT

Using these results to also let everybody know...

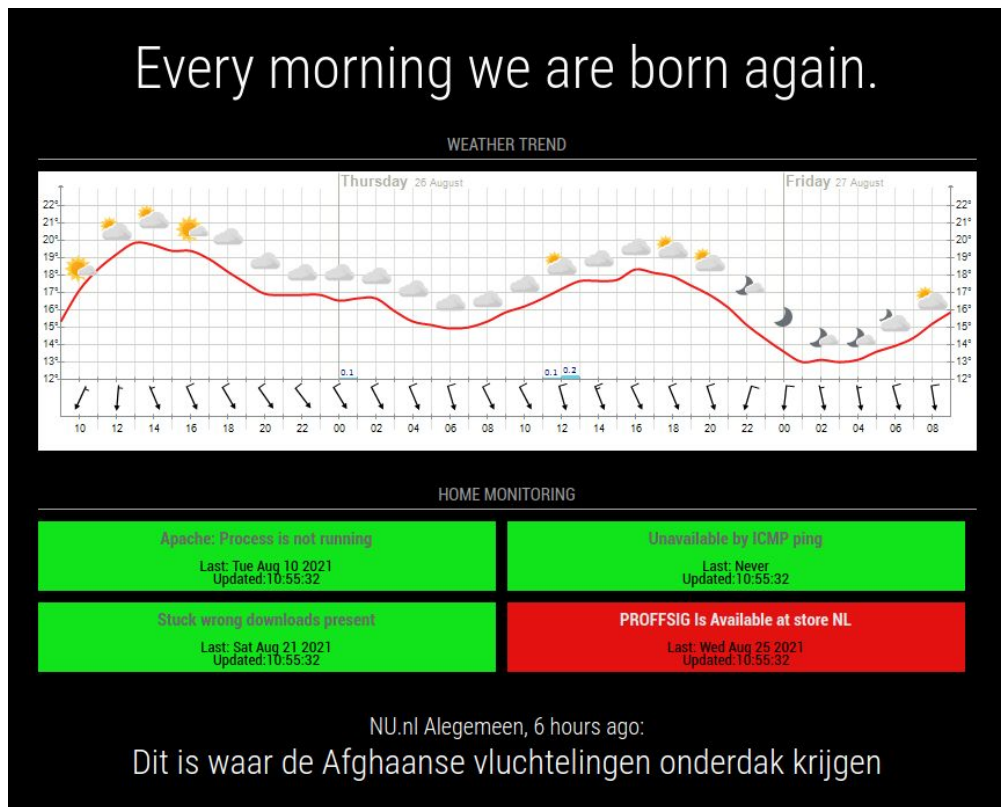


I need to let me know what happens

I've build a javascript module for
MagicMirror

See: magicmirror.builders

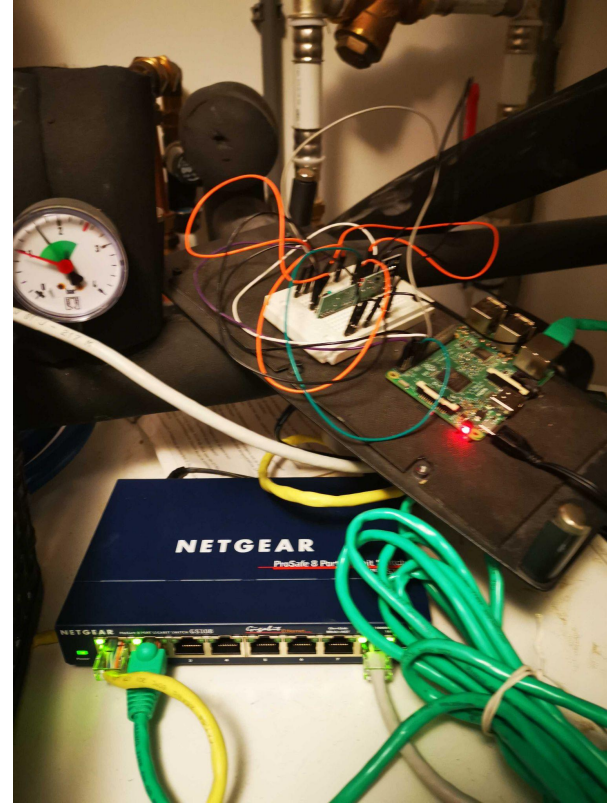
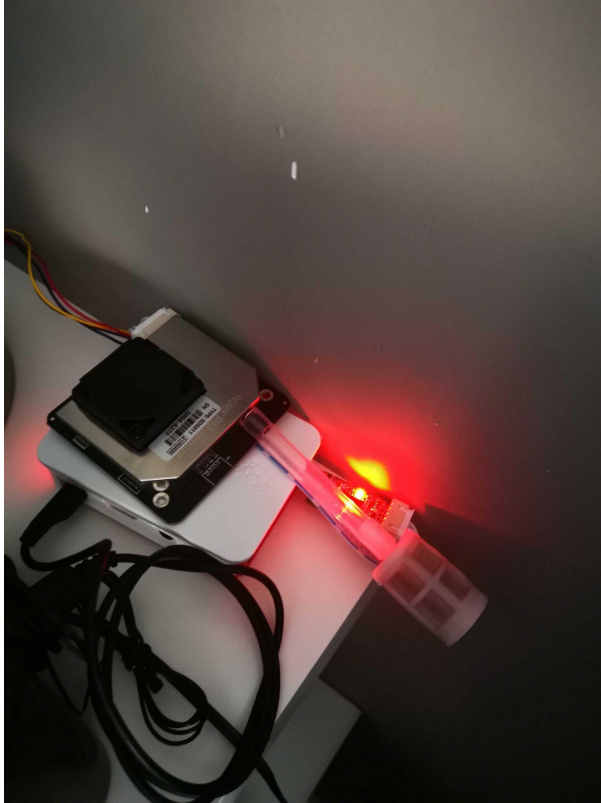
So he can read Zabbix Triggers



Magic Mirrors are COOL! But with Zabbix is better!



Let's put sensors around the house with Raspberry



Zabbix will collect everything (also via RPI)

Solar Power Inverter

- Wireless + RJ45
- Python Library
- Zabbix Agent

Local LAN

Solar Inverter LAN

```
root@Terra-E05-AM-1:~# ifconfig
enxb827eb28a485: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.221 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fe80::8586:a0b6:60ff:9906 prefixlen 64 scopeid 0x20<link>
    ether b8:27:eb:28:a4:85 txqueuelen 1000 (Ethernet)
    RX packets 29994467 bytes 3278554526 (3.0 GiB)
    RX errors 0 dropped 61992 overruns 0 frame 0
    TX packets 14781456 bytes 2070230883 (1.9 GiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 530 bytes 48824 (47.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 530 bytes 48824 (47.6 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.200.100 netmask 255.255.255.0 broadcast 192.168.200.255
    inet6 fe80::bf21:de45:7f8a:569 prefixlen 64 scopeid 0x20<link>
    ether b8:27:eb:7d:f1:d0 txqueuelen 1000 (Ethernet)
    RX packets 665728 bytes 41836450 (39.8 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 904606 bytes 107053756 (102.0 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Zabbix Solar

```
#!/usr/bin/python3.8
```

```
from huawei_solar import HuaweiSolar
from time import sleep
import json
import re
```

```
listtraps=['model_name',...]
```

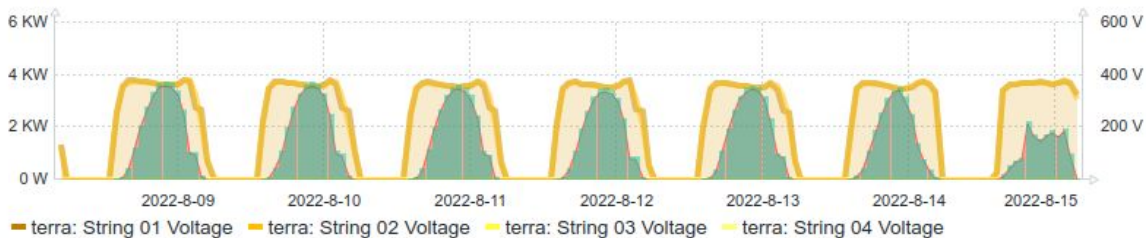
```
inverter = HuaweiSolar('192.168.200.1',port="6607") #
replace this with the correct ip address
```

```
json_output={}
```

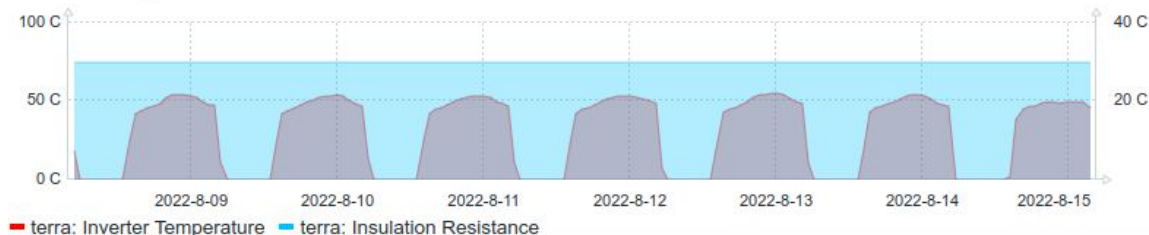
```
for trap in listtraps:
    #print(trap,"\t\t=",inverter.get(trap).value)
    reg_state = ""^state_.*"
    json_output[trap]=str(inverter.get(trap).value)
```

```
print(json.dumps(json_output))
```

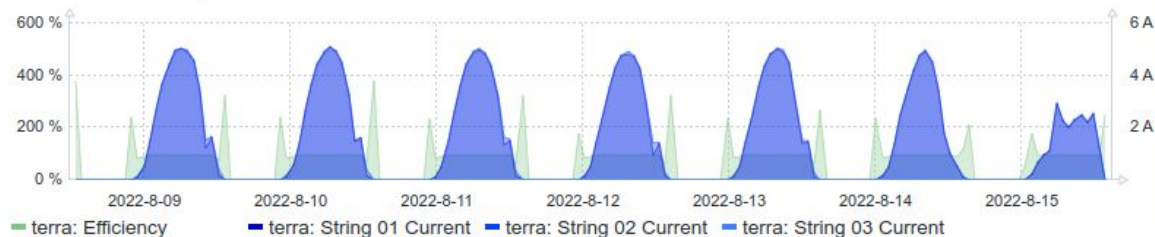
Energy Generation Watts / Volts



Inverter Temperature

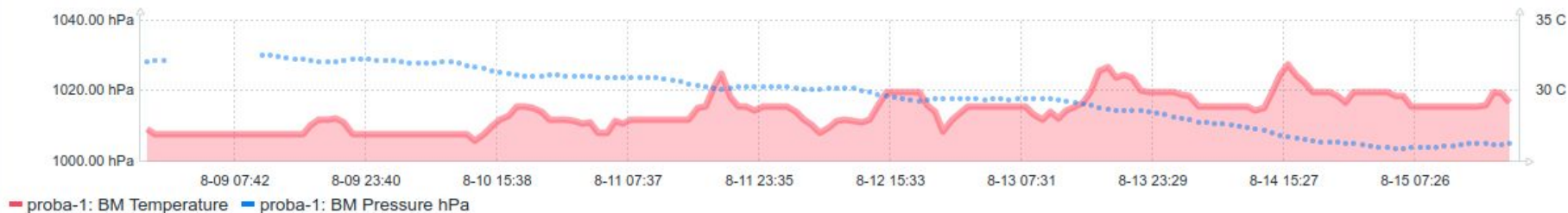


Inverter Efficiency

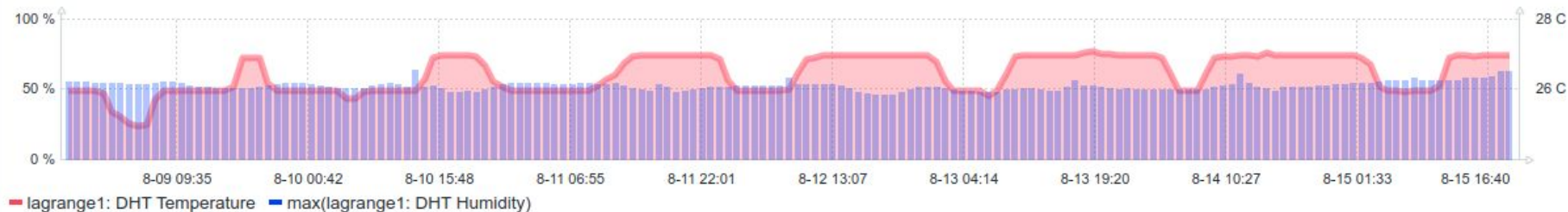


Zabbix temperatures, humidity, pressure, air quality...

Bedroom Temp / Pressure

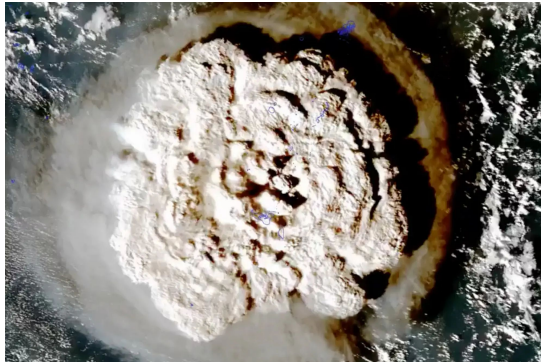
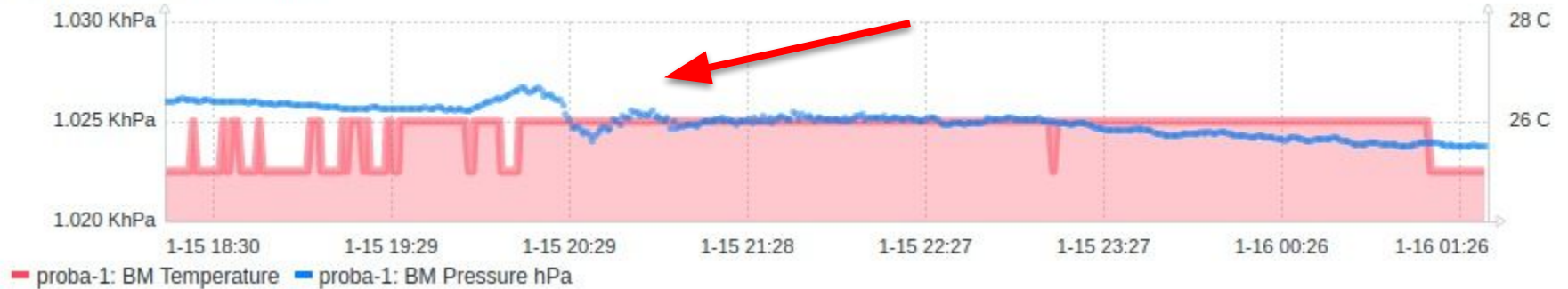


Living Room Temp / Humidity



Zabbix temperatures, humidity, pressure, air quality...

Bedroom Temp / Pressure



RaspberryPi sensor type: BME280
Zabbix data collection: Python Script
Resolution data: 1 minute
Shockwave Fluctuation: +/- 2 hPa

Zabbix temperatures, humidity, pressure, air quality...



World Health Organization guidelines - Air quality Safety Thresholds:

PM 2.5 → 25 micrograms per Cubic Meter / 24h & PM 10 → 50 micrograms per Cubic Meter / 24h

Zabbix temperatures, humidity, pressure, air quality...

Sensor data Normalization

Items

All hosts / proba-1 Enabled ZBX Items 76 Triggers 30 Graphs 11 Discovery rules 3 Web scenarios

Item Tags 1 Preprocessing 1

Preprocessing steps	Name	Parameters	Custom on fail	Actions
1:	In range	0 1000	☐	Test Remove
Add				
Type of information	Numeric (float)			
Update Clone Execute now Test Clear history and trends Delete Cancel				



Sensor may emit peaks with false / inconsistent data → Preprocessing can validate if a value is within range and give some normalization over synthetic peaks.

Magic Mirror Output

HOME MONITORING			
Apache: Process is not running		Unavailable by ICMP ping	
Last: Sat Aug 13 2022 Updated: 8:27:26 PM		Last: Wed Jun 29 2022 Updated: 8:27:26 PM	
Stuck wrong downloads present		Atm. Pressure diff is greater than (+/-) 20 hPa from 24Hs avg	
Last: Thu Jun 02 2022 Updated: 8:27:26 PM		Last: Mon Jul 25 2022 Updated: 8:27:26 PM	



About Pressure: When it varies more than 20 hPa in 24hs, it may means two things -- One major storm is coming or a big change on the weather -- or -- It may trigger migraines on people possibly sensitive to atmospheric pressure (my wife).

2 SSW

-12°

21:07

22.7°

Feels like 22.7°

WEATHER FORECAST ALPHEN AAN DEN RIJN, NL

Today		22.5°	22.1°
Tomorrow		26.5°	18.6°
Wed		23.6°	17.6°
Thu		25.6°	16.6°
Fri		22.9°	15.2°

Main Bedroom Temp	28.00
Home Office Temp	32.187
Atm. Pressure	1005.93 hPa
Keuken Temp	27.00
PM 2.5	17.5 µg/M³
Env. Humidity	61.00 %
PM 10	26.3 µg/M³

August 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

Magic Javascript + Zabbix

Thursday, August 27, 2026

20:56¹¹

AGENDAS

AGENDAS

Niver Audrey

Sep / th

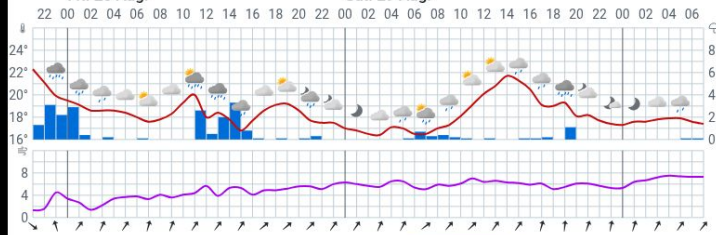
Serio?

WEATHER TREND

Weather forecast for Alphen aan den Rijn

Fri. 28 Aug.

Sat. 29 Aug.



HOME MONITORING

Min. Pressure diff is greater than 1. Internet is not available at Mercury. PM2.5 is too high. Backchannel port not available. Temperature is too high (Alphas as

GEMEENTE ALPHEN AAN DEN RIJN, NL-ZH

⇒ 2 WNW

☀ 06:45 ☁ 20:40

☁ 23.7°
Feels like 26.4°

Today ☁ 28.0° 16.0° 0.70 mm

Tomorrow ☁ 21.5° 17.3° 60.50 mm

Sa ☁ 21.7° 17.2° 10.00 mm

Su ☁ 21.6° 17.3° 3.37 mm

Mo ☁ 19.7° 15.3° 10.10 mm

Badkamer Temp	28.00 °C
Laundry Temp	31.00 °C
Main Bedroom Temp	26.61 °C
PM 2.5	0.63 µg/M³
Atm. Pressure	1009.14 hPa
Hot water top (BT7)	64.5 °C
PM 10	1.30 µg/M³

Magic Javascript + Zabbix

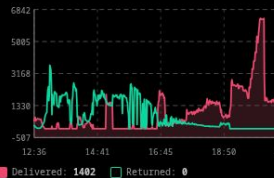
Thursday, August 27, 2026

20:56¹¹

AGENDAS

Niver Audrey

INPUT/OUTPUT KW/H



INPUT/OUTPUT KW/H



GEMEENTE ALPHEN AAN DEN RIJN, NL-ZH

⇒ 2 WNW

☀ 06:45 ☀ 20:40



23.7°

Feels like 26.4°

Today



28.0°
16.0° 0.70 mm

Tomorrow



21.5°
17.3° 60.50 mm

Sa



21.7°
17.2° 10.00 mm

Su



21.6°
17.3° 3.37 mm

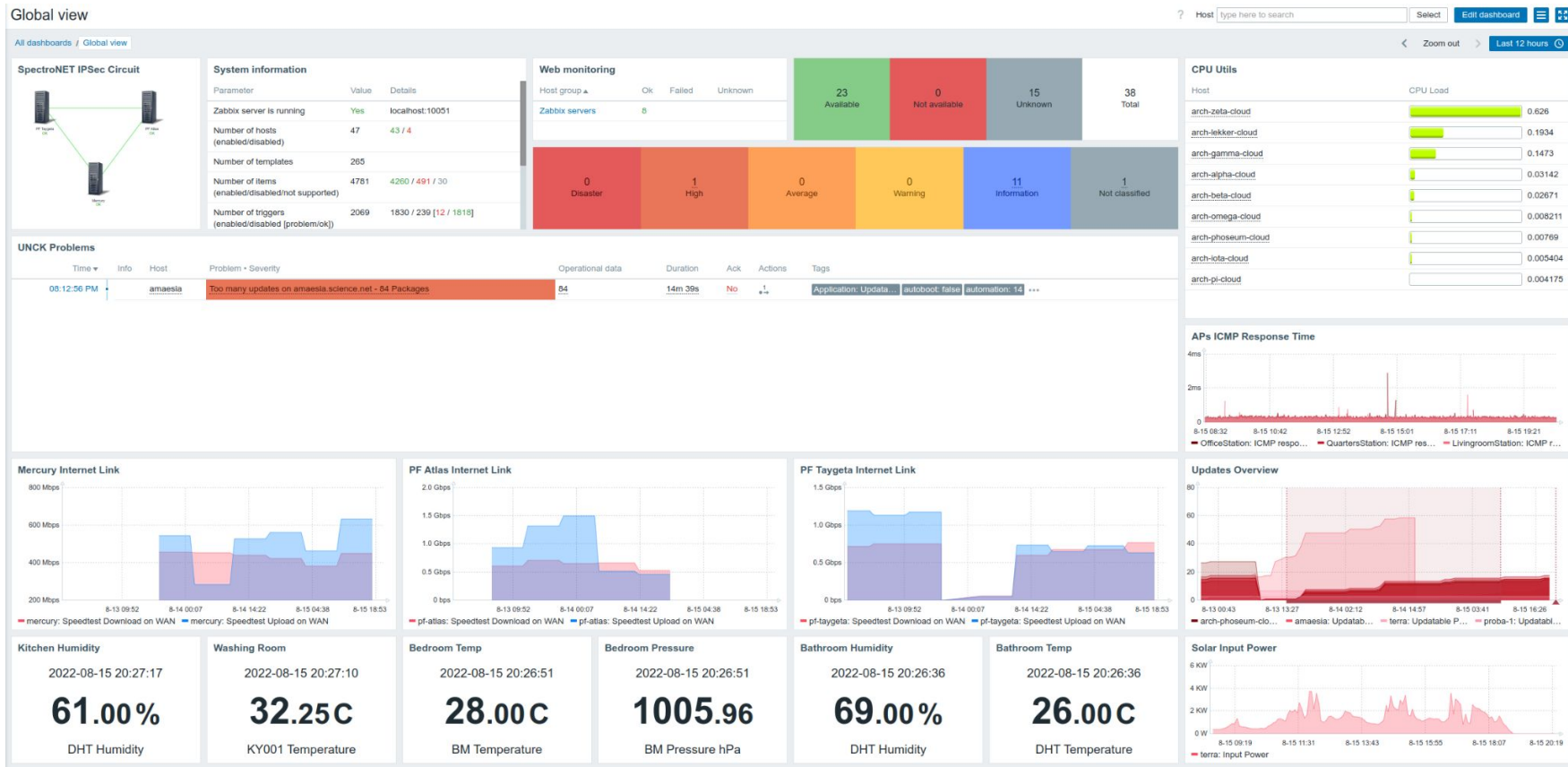
Mo



19.7°
15.3° 10.10 mm

Badkamer Temp	28.00 °C
Laundry Temp	31.00 °C
Main Bedroom Temp	26.61 °C
PM 2.5	0.63 µg/M³
Atm. Pressure	1009.14 hPa
Hot water top (BT7)	64.5 °C
PM 10	1.30 µg/M³

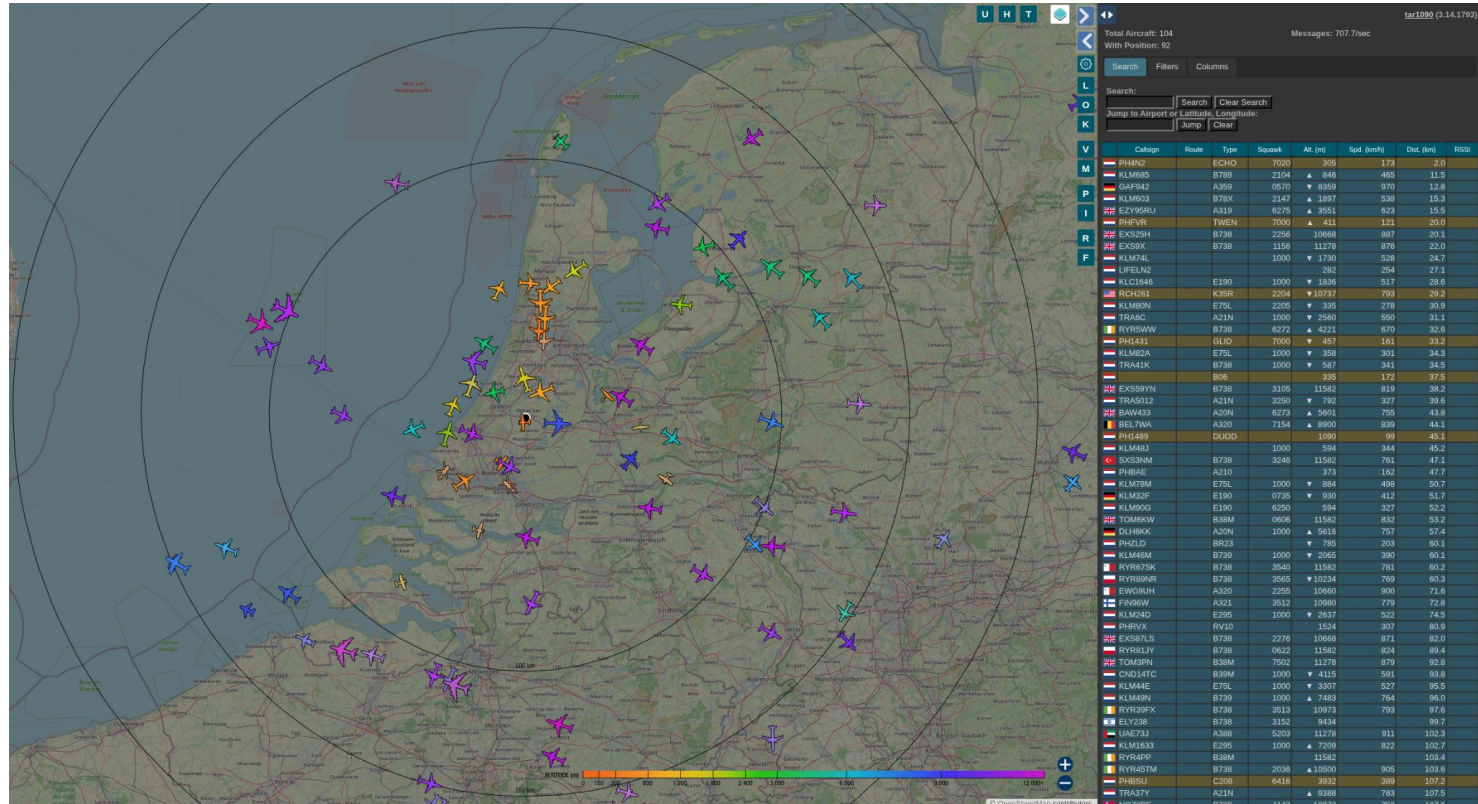
Zabbix Full Dashboards - Systems



Zabbix Full Dashboards - Environment



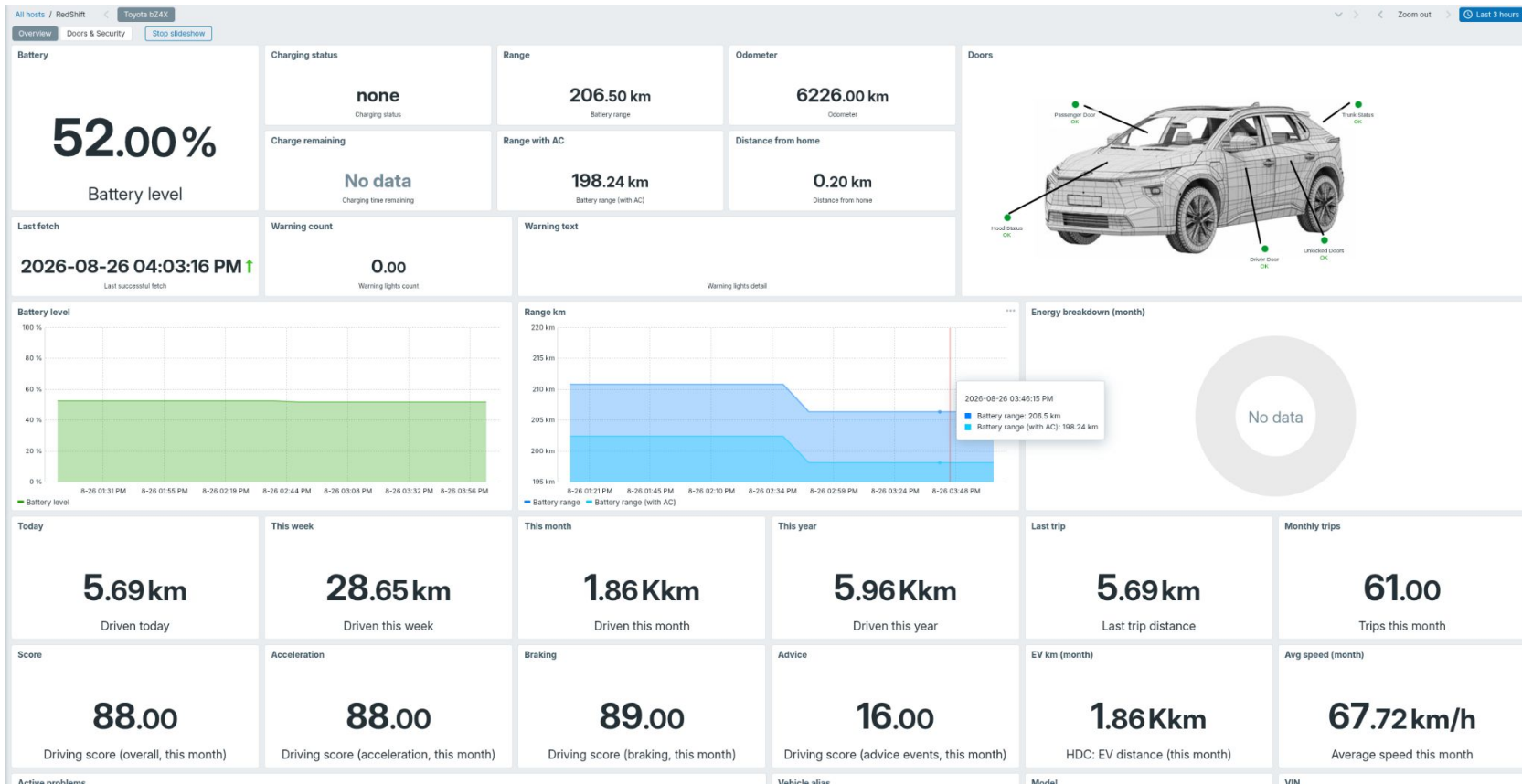
ADS-B Collecting and Monitoring



ADS-B Collecting and Monitoring



Automotive API Systems Observation



New tools, advanced social living...

...or is it cheating?

Zabbix will help you to collect data easily, evaluate and make sense of the world around you...

You will feel like having an edge and the advantage from others who cannot develop the same informational advantage... or feel like cheating in life :)



The End

Thank you for watching, or, I hope you had a good nap!

