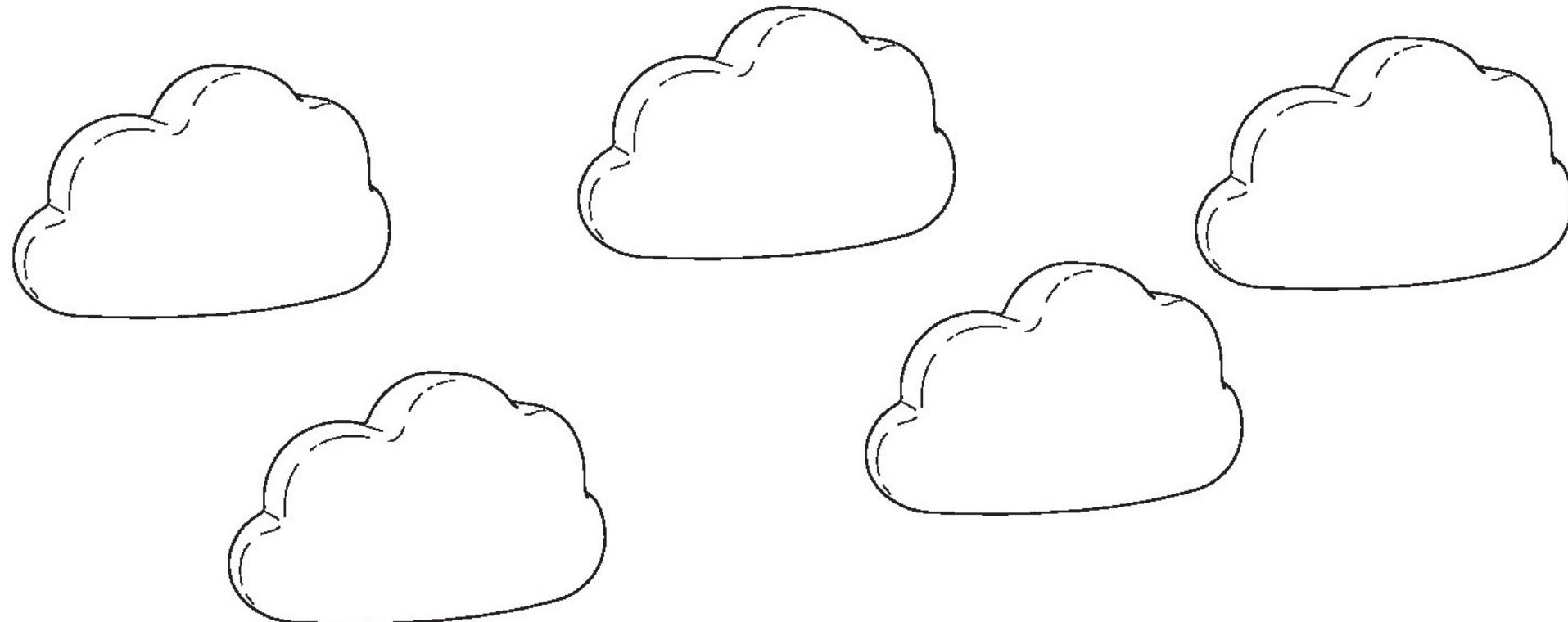


NÖTIFIKÄTİÖNS

DIY IKEA NOTIFICATIONS SERVICE IN THE CLOUD

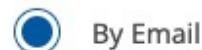


ANDRÉ ELMOZNINO LAUFER
TECH LEAD | FRONTEND CRAFT CIRCLE LEAD

DISCLAIMER

- **Personal hobby project as an individual**
 - **Not a client project (no association with IKEA)**
 - **Public info (no “hacking”)**
 - **Works in the US (but not Sweden)**
-

Get notified when it's back in stock



Enter your email address

I have read and understood the [IKEA privacy policy](#)

Send me a notification

Agenda

01 The problem

02 The solution

ikea-availability-checker

Vercel

GitHub Actions

SendGrid

Twilio

03 Demo

04 Summary



Who am I

- Work at Valtech
- Tech Lead for BMW Nordics & MINI Nordics
- Lead of Valtech's Swedish Frontend Craft Circle
- Clients: Swedish Educational Broadcasting Company (UR), Goodyear, Invidem



PRÖBLEM



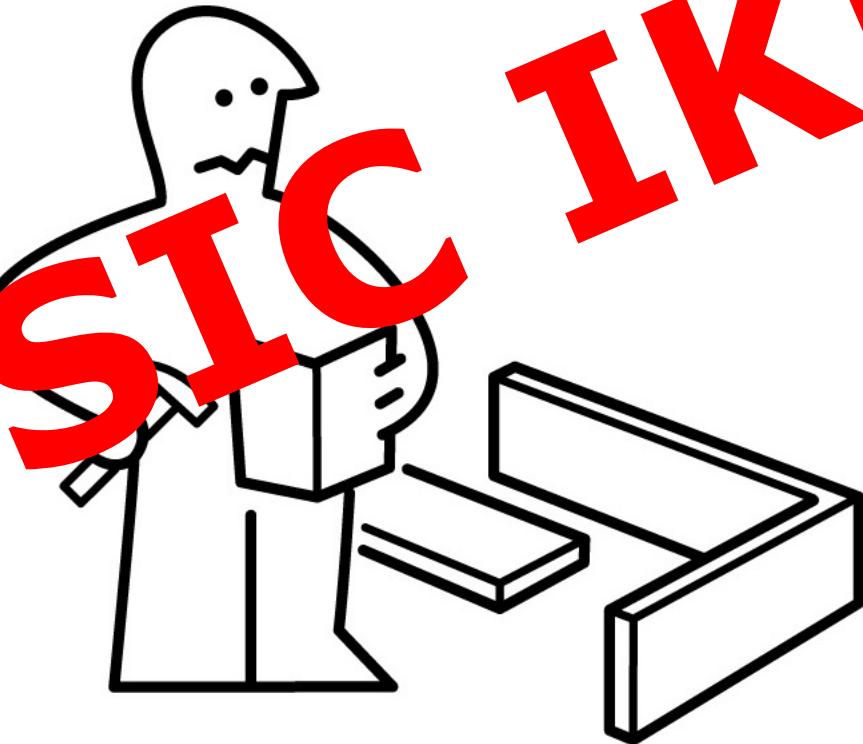
Right now we are updating
and improving "Notify me",
a feature that tells you via
e-mail or text message
when an item is back in
stock



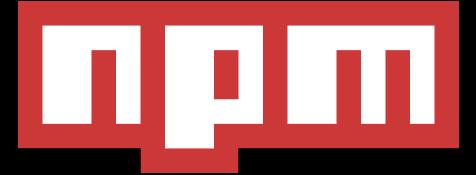
V_

SÖLUTIÖN

CLASSIC IKEA



ikea-availability-checker



/ “A script which makes it easy to check the availability of a list of products and locations.”

/ **List all stores:**

```
npx ikea-availability-checker -- stores se
```

/ **Product Availability Specific Store:**

```
npx ikea-availability-checker -- stock --store=155 S69022537
```

/ **In your code/app:**

```
const checker = require('ikea-availability-checker');
const result = await checker.availability('394', 'S69022537');
```

/ **Docs:** <https://www.npmjs.com/package/ikea-availability-checker>

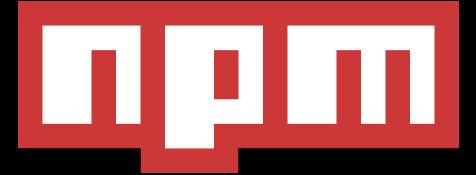
ikea-availability-checker



```
clm-2d3jgh5:ikea andre.elmoznino$ npx ikea-availability-checker -- stores se  
npx: installed 25 in 4.476s
```

countryCode	country	buCode	name
se	Sweden	012	Stockholm Kungens Kurva
se	Sweden	014	Göteborg Källered
se	Sweden	017	Linköping
se	Sweden	019	Stockholm Barkarby
se	Sweden	020	Västerås
se	Sweden	053	Uddevalla
se	Sweden	070	Uppsala
se	Sweden	106	Örebro

ikea-availability-checker



```
clm-2d3jgh5:ikea andre.elmoznino$ npx ikea-availability-checker -- stock --store=155 S69022537
```

```
npx: installed 25 in 3.93s
```

date	countryCode	country	product	storeId (buCode)	store	stock	probability	restockDate	forecast
2021-11-17T14:50:15.222Z	at	Austria	S69022537	155	Klagenfurt	10	HIGH		11-18: 10, 11-19: 9, 11-20: 9, 11-21: 8



/ Serverless Functions

/ JS

/ Go

/ Python

/ Ruby

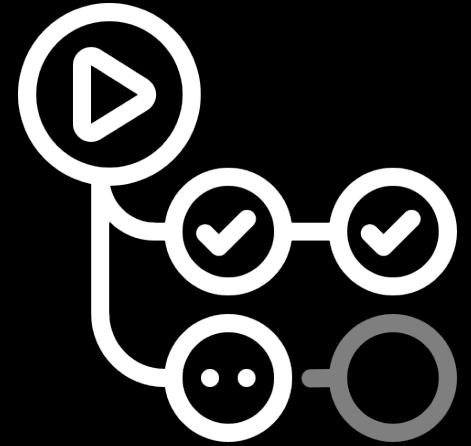
/ E.g. user authentication, form submission, database queries, custom slack commands...

/ Free plan: 100GB-hours, 5 sec execution timeout, unlimited invocations

/ Docs: <https://vercel.com/docs/concepts/functions/serverless-functions>

GitHub Actions

- / Automated workflows
- / Different kind of triggers
- / Languages: Node.js, Python, Java, Ruby, PHP, Go, Rust, .NET, and more
- / Pricing: 2000 free minutes/month
- / Marketplace: <https://github.com/marketplace?type=actions>
- / Docs: <https://docs.github.com/en/actions>



GitHub Actions Example

```
1. name: pull-request
2.
3. on:
4.   pull_request:
5.     branches: [ main ]
6.
7. jobs:
8.   build:
9.     runs-on: ubuntu-latest
10.    steps:
11.      - name: Check out code
12.      - uses: actions/checkout@v2
13.
14.      - name: Set up node
15.      uses: actions/setup-node@v1
16.
17.      - name: Install dependencies
18.      run: npm install
19.
20.      - name: Run tests
21.      run: npm test
```

The image displays three separate screenshots of GitHub Actions status pages, each showing a different outcome for a pull request:

- In Progress (Top):** Shows a yellow icon and the message "Some checks haven't completed yet". It lists one check in progress: "pull-request / build (pull_request) In progress — This check has started...". A "Merge pull request" button is present.
- Passed (Middle):** Shows a green icon and the message "All checks have passed". It lists one successful check: "pull-request / build (pull_request) Successful in 16s". It also lists "This branch has no conflicts with the base branch". A "Merge pull request" button is present.
- Failed (Bottom):** Shows a red icon and the message "All checks have failed". It lists one failing check: "pull-request / build (pull_request) Failing after 19s — build". It also lists "Required statuses must pass before merging". A "Merge pull request" button is present.

SendGrid

/ Email as a Service

/ SMTP WTF?

/ 100 emails/day free forever: <https://sendgrid.com/free/>



Twilio

/ SMS as a Service

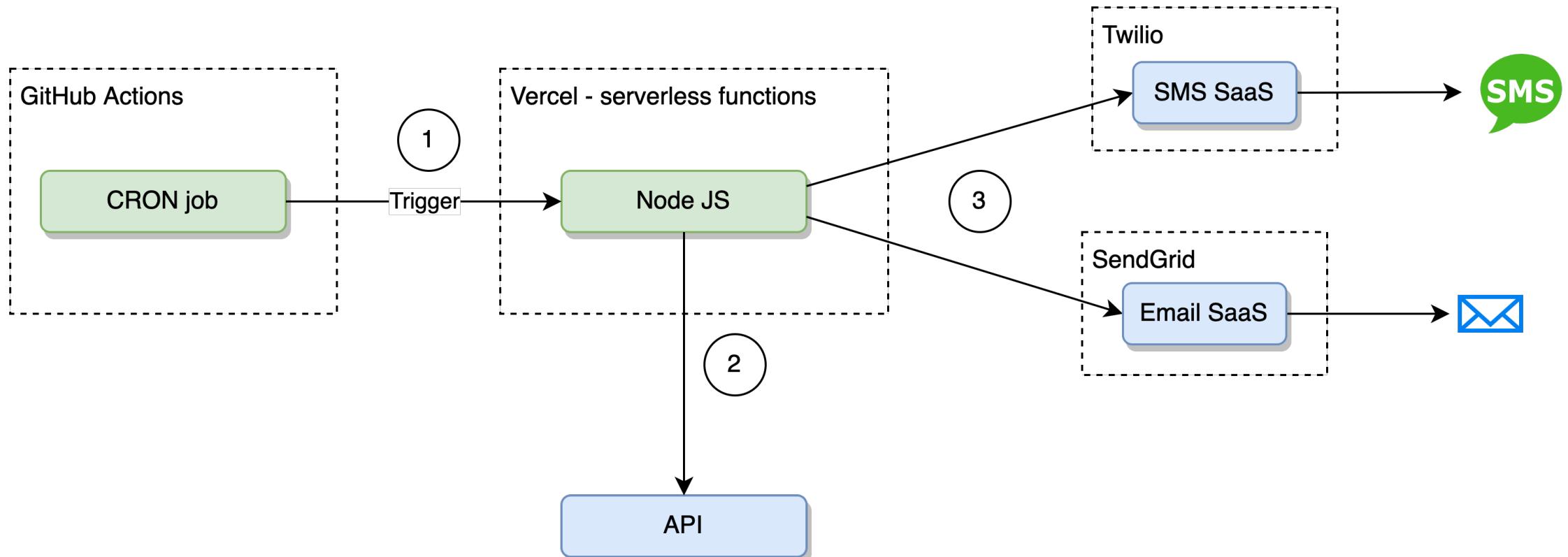
/ ~20 USD free credits: <https://www.twilio.com/try-twilio/>



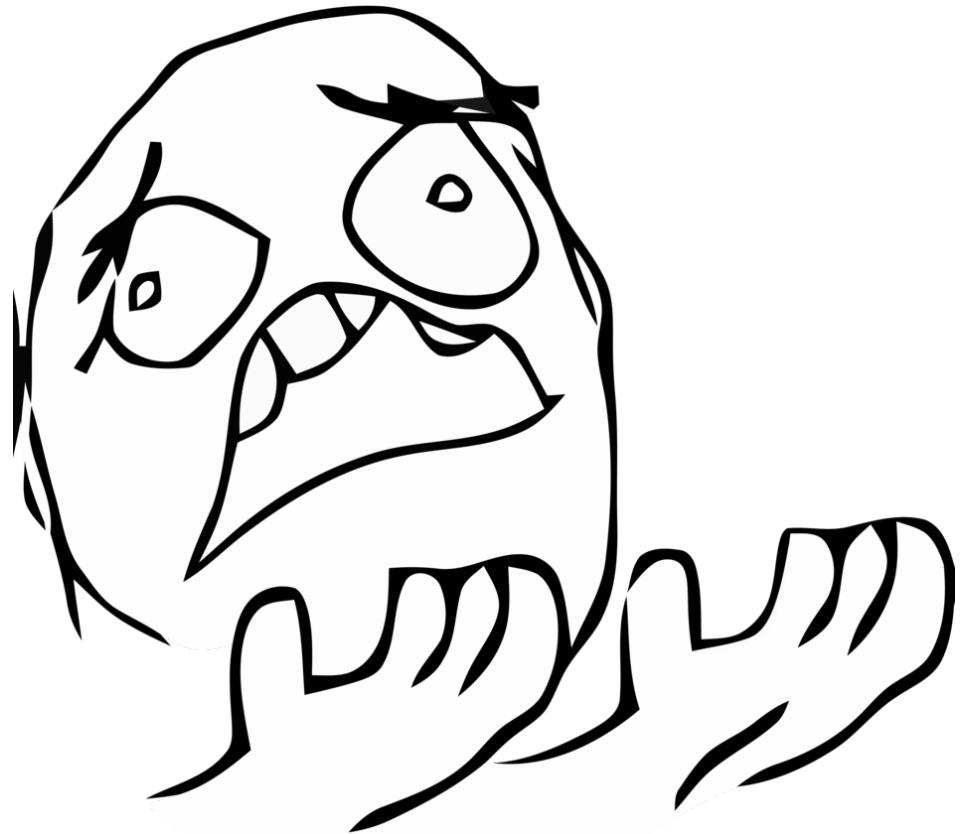
DEMÖ



SYSTEM ÖVERVIEW



BUT WHY?



Resources

/ Free GitHub Actions course:

<https://lab.github.com/githubtraining/github-actions>

/ Vercel Serverless Functions:

<https://vercel.com/docs/concepts/functions/serverless-functions>

/ Free Twilio trial account: <https://www.twilio.com/try-twilio/>

/ Free SendGrid trial account: <https://sendgrid.com/free/>

/ These slides: <https://github.com/AElmoznino/presentations>



Thank You

André Elmoznino Laufer

andre.elmoznino@valtech.com

We're hiring: <https://www.valtech.com/career/jobs/>