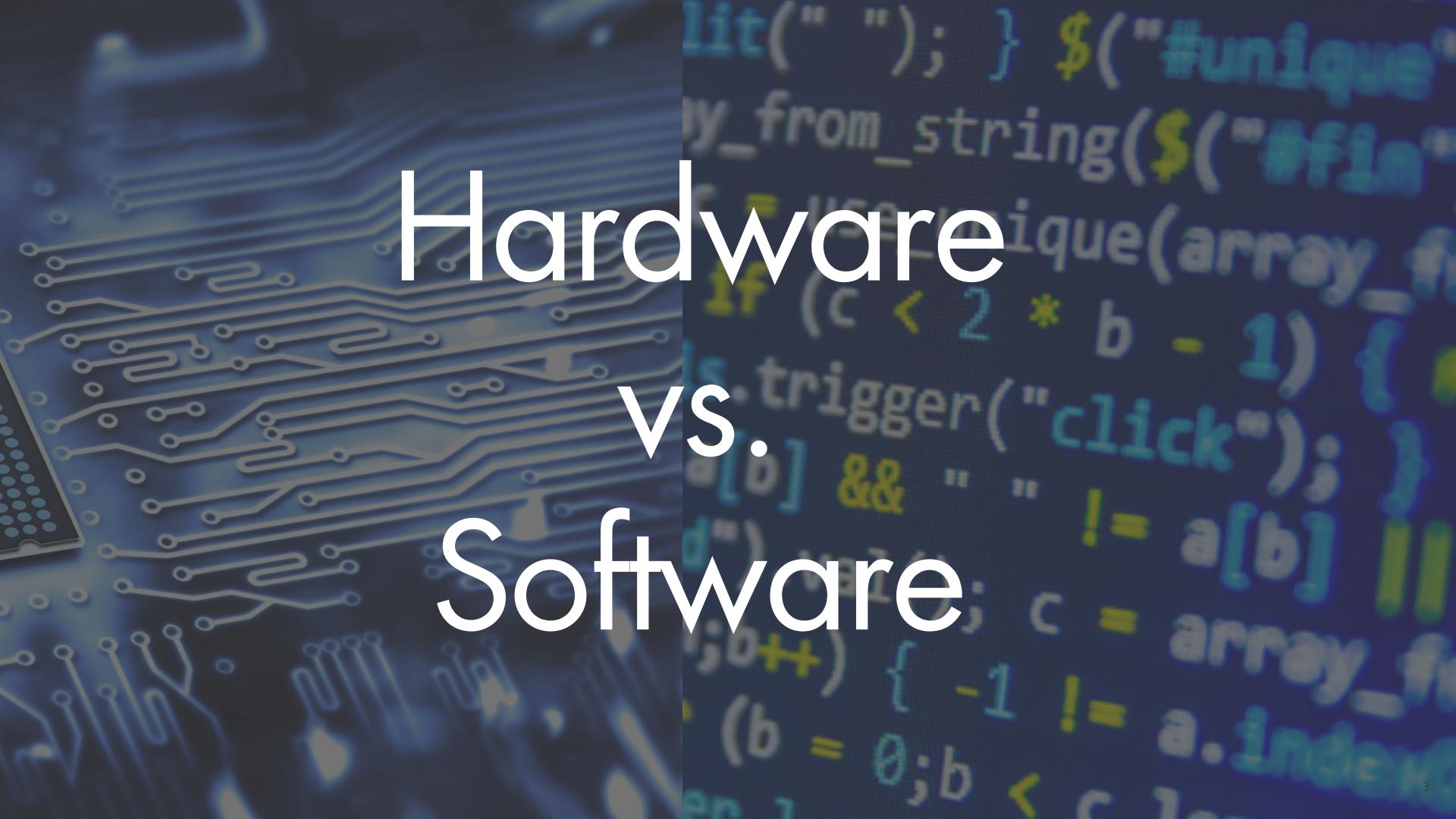


Amazon Alexa

a skilled kid

Christoph Starkmann

-> kiko <-



Hardware vs. Software

Hardware

Amazon Echo / Echo Dot

Pros:

- inexpensive
- access entire amazon infrastructure

Cons:

- limited by design (by amazon ;))
- company based

Hardware

Amazon Echo / Echo Dot

Pros:

- inexpensive
- access entire amazon infrastructure

Cons:

- limited by design (by amazon ;))
- company based

alternative hardware

Pros:

- Easy to built
- known local hardware, firmware and software

Cons:

- more costly

Software

Amazon Alexa is ...

- “Amazon’s voice service and the brain behind millions of devices including Amazon Echo”
- cloud-based “intelligent personal assistant”
- composed of many different components

Amazon Alexa is not ...

- an Artificial Intelligence
- a search engine

Example

Something simple

Alexa Tweeter

simple example skill to request tweets containing a given #hashtag



Alexa Tweeter

2 approaches:



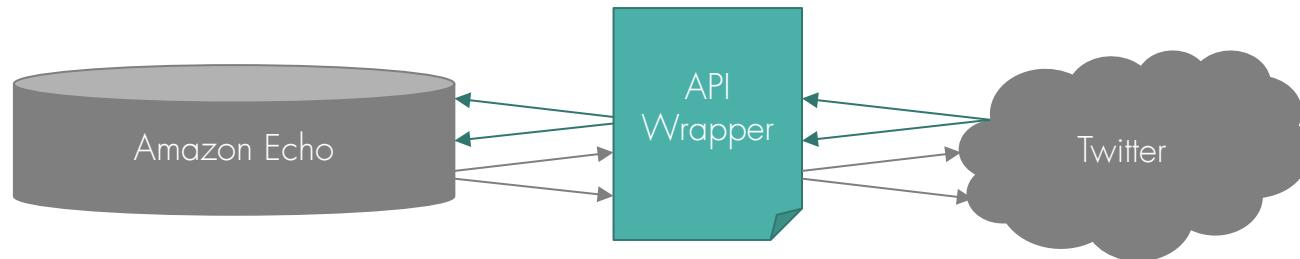
JS wrapper
for Twitter
API within
lambda



“tweet
proxy”
handling
logic

Alexa Tweeter

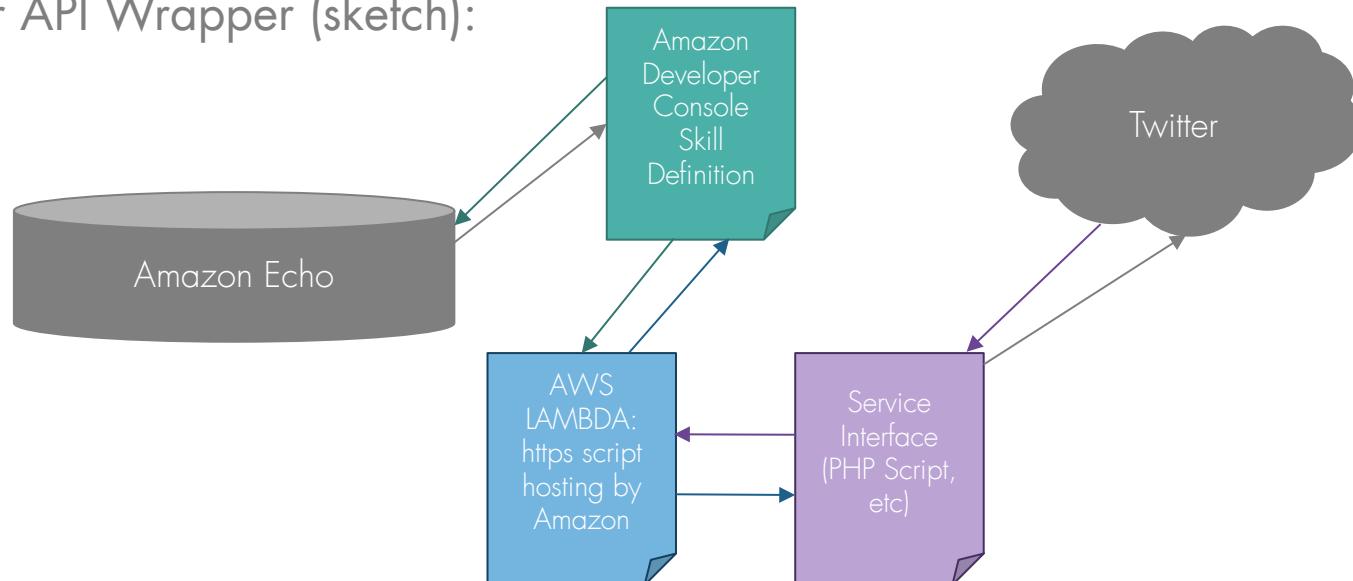
Twitter API Wrapper (sketch):



- Alexa requests are “translated” into Twitter API requests
- high complexity
- high flexibility
- additional “app” used to provide additional logic

Alexa Tweeter

Twitter API Wrapper (sketch):



Sicher | https://developer.amazon.com/edw/home.html#skill/amzn1.ask.skill.5781b70e-c2a7-4b94-a2a3-e499f5285c10/de_DE/info

DASHBOARD APPS & SERVICES ALEXA REPORTING SUPPORT DOCUMENTATION SETTINGS

< Back to All Skills Weinprobe Getting Started

Custom ID: amzn1.ask.skill.5781b70e-c2a7-4b94-a2a3-e499f5285c10

German Add a New Language

Skill Information ✓
Interaction Model ✓
Configuration ✓
Test ✓
Publishing Information ✓
Privacy & Compliance ✓

Skill Type Custom Define a custom interaction model or use one of the predefined skill APIs. [Learn more](#)

Language German Language of your skill

Application Id amzn1.ask.skill.5781b70e-c2a7-4b94-a2a3-e499f5285c10

Name Weinprobe Name of the skill that is displayed to customers in the Alexa app. Must be between 2-50 characters.

Invocation Name wineprobe The name customers use to activate the skill. For example, "Alexa ask Tide Pooler..." [Invocation Name Guidelines](#)

Skills Beta Testing NEW Status: NOT STARTED [Beta Test Your Skill](#)

Global Fields
These fields apply to all languages supported by the skill.

Audio Player Does this skill use the audio player directives? Yes No [Learn more](#)

Save Submit for Certification Next

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Sicher | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions?display=list

Services Resource Groups

AWS Lambda

Dashboard Functions

Lambda > Functions

Create a Lambda function Actions

Filter

Function name	Description	Runtime	Code size	Last Modified
wp2	Demonstrate a basic fact skill built with the ASK NodeJS SDK	Node.js 4.3	148.7 kB	5 days ago
weinprobe	fetching and reading	Node.js 6.10	893 bytes	6 days ago

Feedback English

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Sicher | https://console.aws.amazon.com/lambda/home?region=us-east-1#/functions/weinprobe?tab=code

AWS Lambda Services Resource Groups

ARN - arn:aws:lambda:us-east-1:911514624994:function:weinprobe

Lambda > Functions > weinprobe

Qualifiers Test Actions

Code Configuration Triggers Monitoring

Code entry type Edit code inline

```
1 'use strict';
2
3 const Alexa = require('alexa-sdk');
4
5 const APP_ID = 'amzn1.ask.skill.5781b70e-c2a7-4b94-a2a3-e499f5285c10';
6
7 const handlers = {
8   'LaunchRequest': function () {
9     this.emit('getTweets');
10  },
11  'getTweets': function () {
12    https.get(myResult => {
13      console.log('Received : ' + myResult);
14      this.emit(':tell', 'Aktuelle Tweets zur Weinprobe: ' + myResult );
15    });
16  },
17  'AMAZON.HelpIntent': function () {
18    const speechOutput = 'So finden andere die Weinprobe ';
19    const reprompt = 'Dies ist nur eine Demo. Ich lese Tweets zur Weinprobe vor. ';
20    this.emit(':ask', speechOutput, reprompt);
21  },
22  'AMAZON.CancelIntent': function () {
23    this.emit(':tell', 'Ich werde Dir Tweets zum Thema Weinprobe vorlesen.');
24  },
25  'AMAZON.StopIntent': function () {
26    this.emit(':tell', 'Auf Wiedersehen!');
27  },
28  'SessionEndedRequest': function () {
29    this.emit(':tell', 'Auf Wiedersehen!');
30  },
31 },
32 };
33
34 exports.handler = (event, context) => {
35   const alexa = Alexa.handler(event, context);
36   alexa.APP_ID = APP_ID;
37 }
38 
```

You can define Environment Variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. [Learn more](#). For storing sensitive information, we recommend encrypting values using KMS and the console's encryption helpers.

Enable encryption helpers

Environment variables

Key	Value

Feedback English

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Why?

- Voice Control
- IoT
- ...
- New challenges
- New obstacles
- New perspectives
- New markets

Thank you! ☺