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gotober.com

What does THIS button do?

Goto Berlin 2019

James Beswick, AWS Serverless

October 23, 2019

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aws

About me

- James Beswick
  - Email: jbeswick@amazon.com
  - Twitter: @jbesw
- Senior Developer Advocate – AWS Serverless
- Serverless geek
- Software Developer and Product Manager
- Previously:
  - Multiple start-up tech guy
  - Rackspace, USAA, Morgan Stanley, J P Morgan…
  - AWS customer since 2012

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Topics for today

IoT and Serverless

Architecture and Tools

Demos and code

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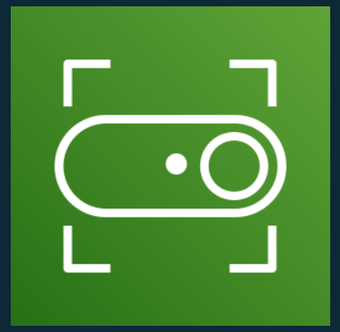

IoT Button

A cloud-programmable IoT button.

https://aws.amazon.com/iotbutton/

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IoT Enterprise

What could you do with the button?

- Start an AWS service
- Send an SMS
- Send an Email
- Turn on/off a light
- Alert your family
- Start a car
- Transfer Money
- Retrieve your Tesla
- Retrieve your kids
- Close a garage
- Put house on vacation
- Feed your dog
- Start sprinklers
- Call the police

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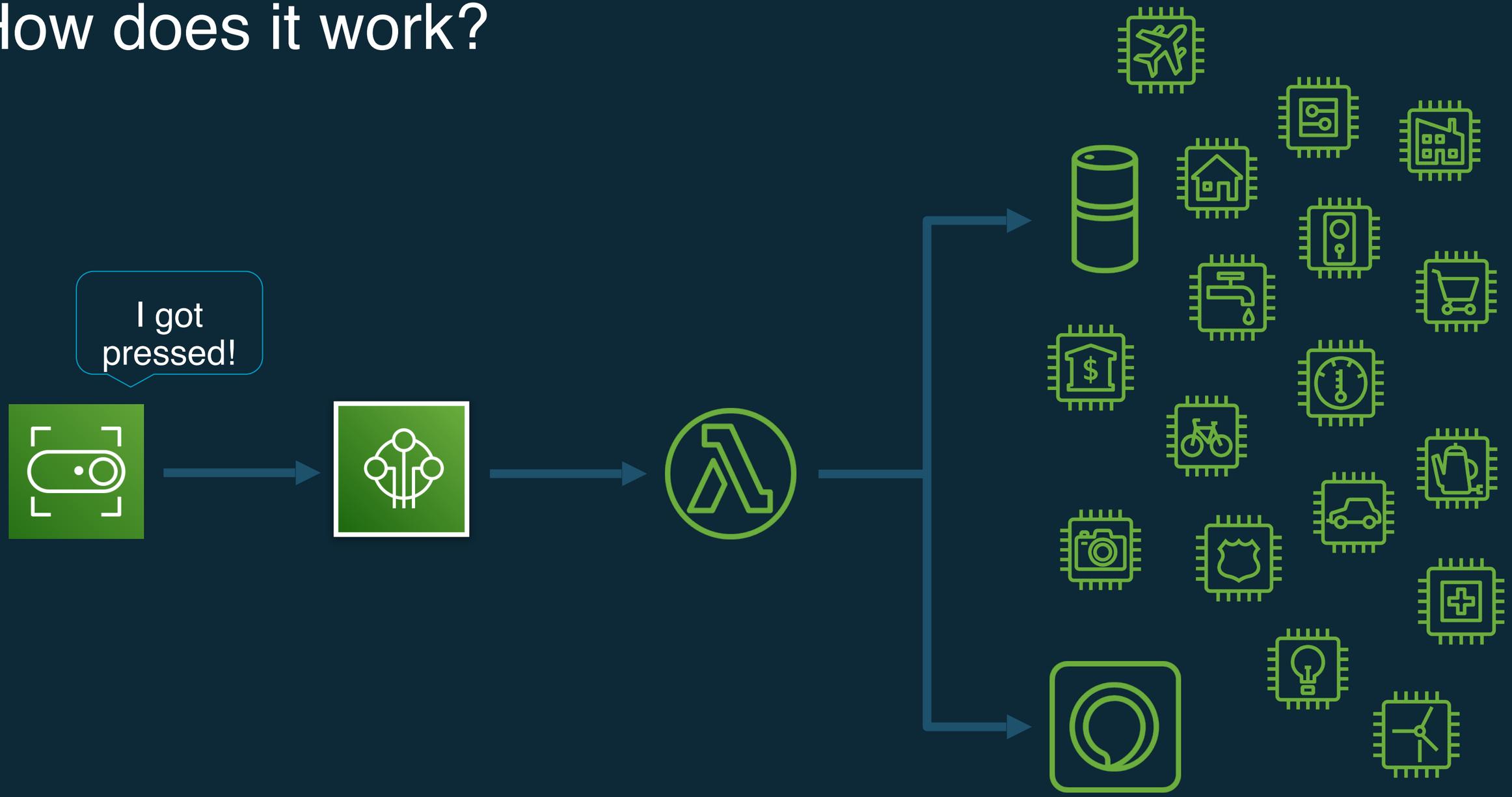
How does it work?



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What is serverless infrastructure?

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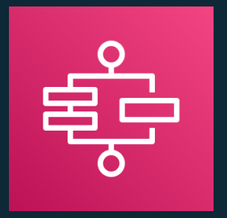
AWS Serverless technology

Amazon API Gateway

AWS Lambda

Amazon DynamoDB

AWS IoT 1-Click



AWS Step Functions

Amazon EventBridge

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Unboxing an IoT button

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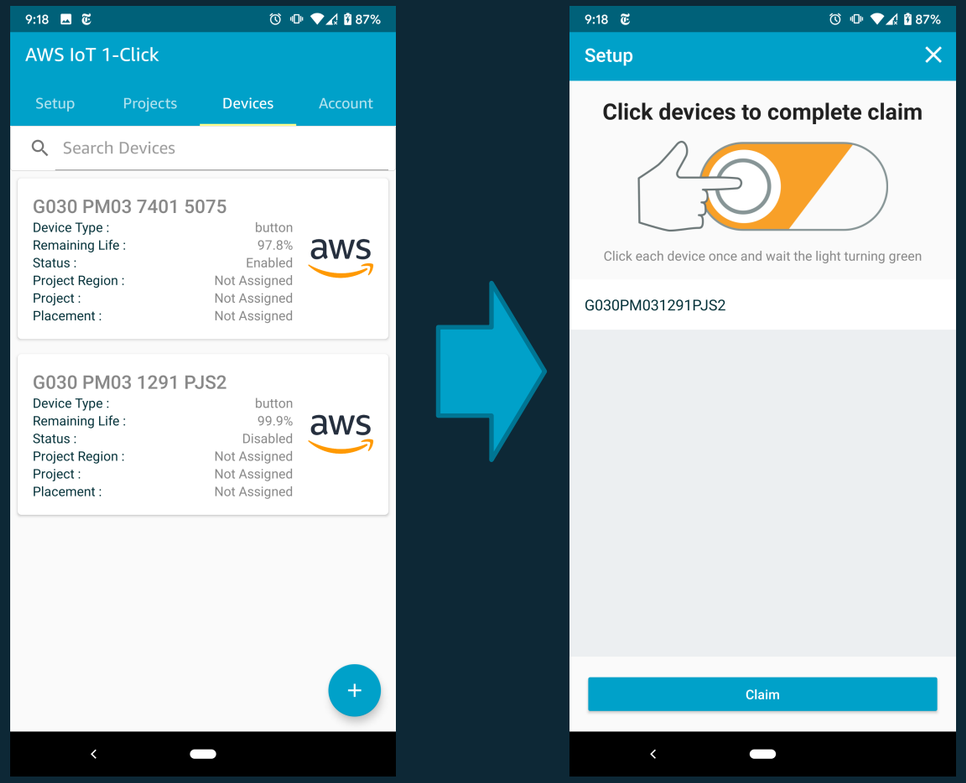
Setting up the IoT button

- Each device has a unique DSN

- Use the IoT 1-Click mobile app to register



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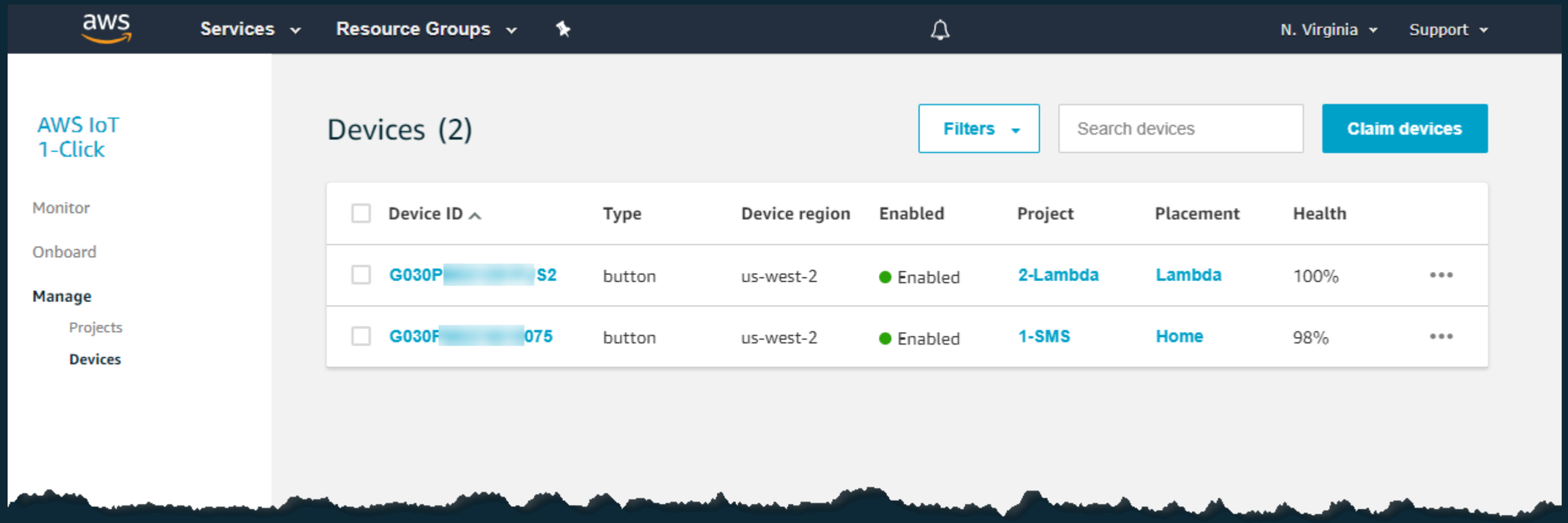
Devices appear in your AWS console



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What does a button press look like?

Example event:

```
{
  "deviceInfo": {
    "deviceId": "G030123456789ABC",
    "type": "button",
    "remainingLife": 99.8,
    "attributes": {
      "projectRegion": "eu-central-1",
      "projectName": "2-RingTheBell",
    }
  },
  "deviceEvent": {
  "buttonClicked": {
    "clickType": "SINGLE",
    "reportedTime": "2019-09-06T17:51:48.709Z"
...
```

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Demos

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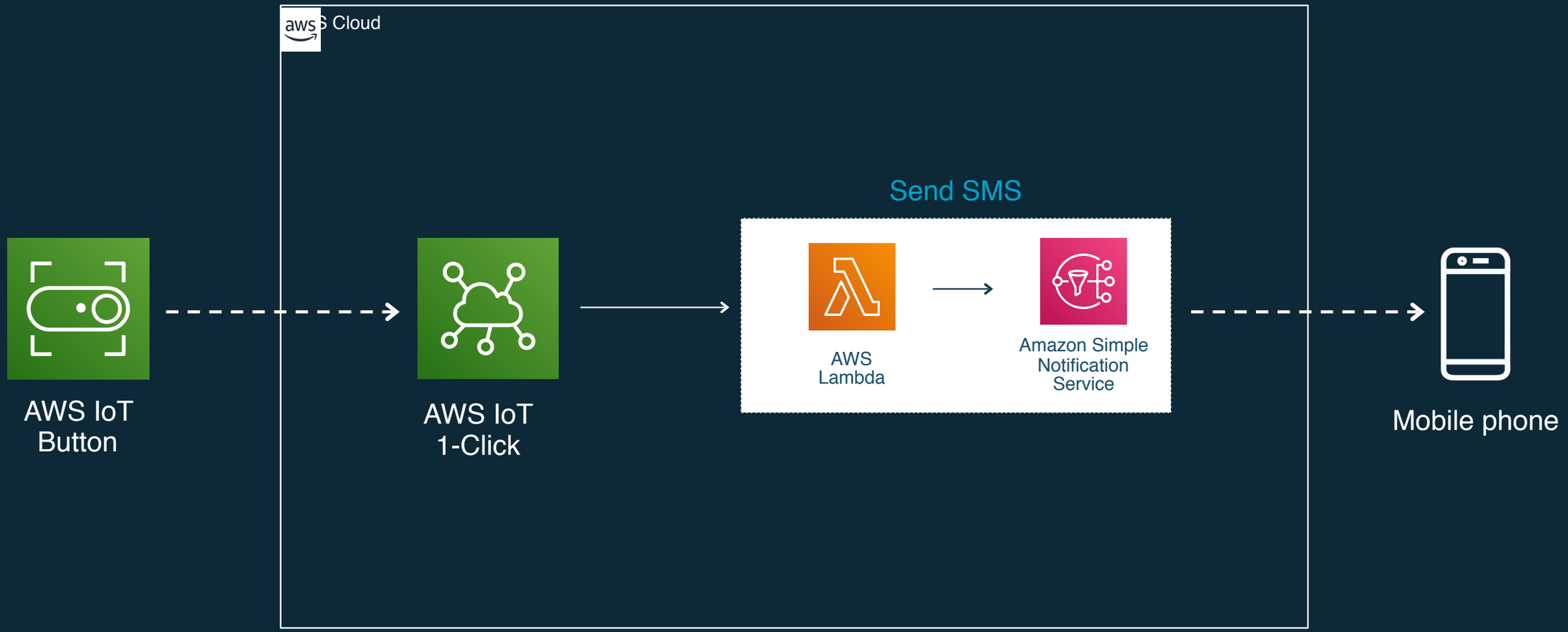
Demo 1 – Send an SMS message



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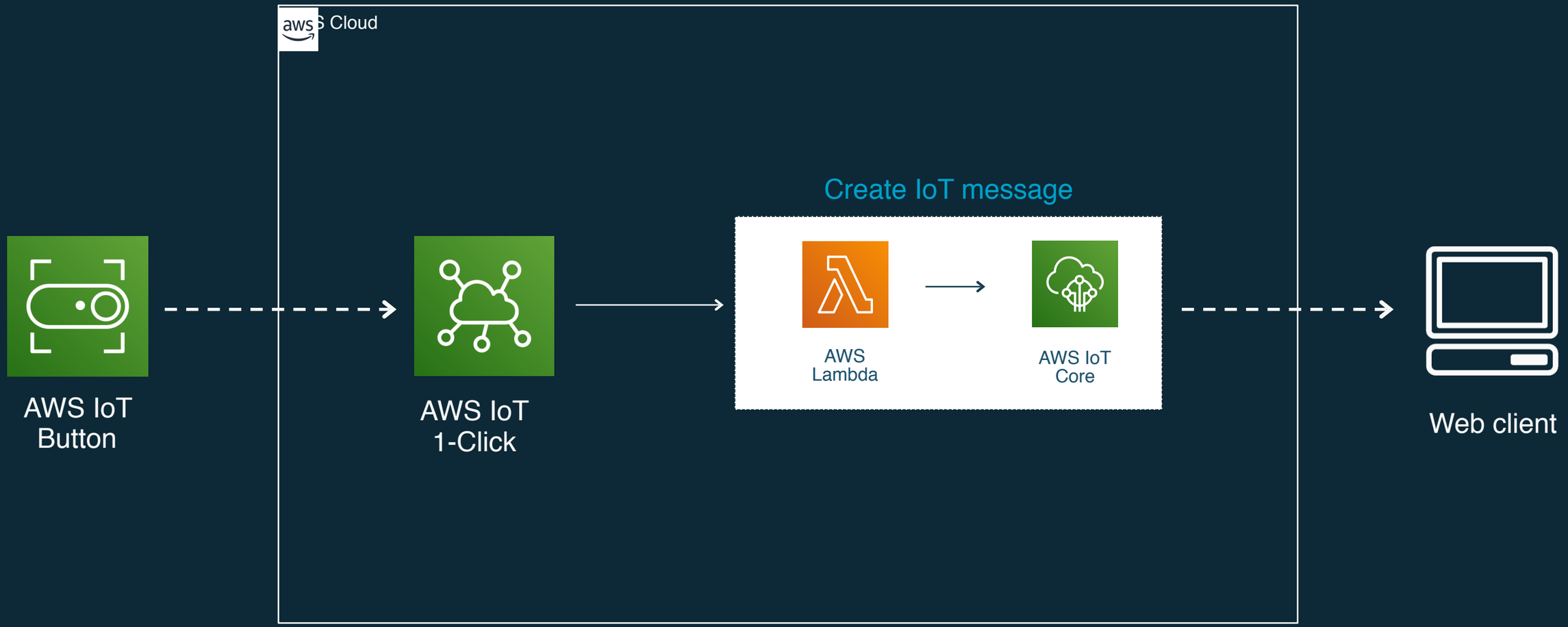
Demo 2 – Increment a web page counter



Go to https://iot.jbes.dev on your phone

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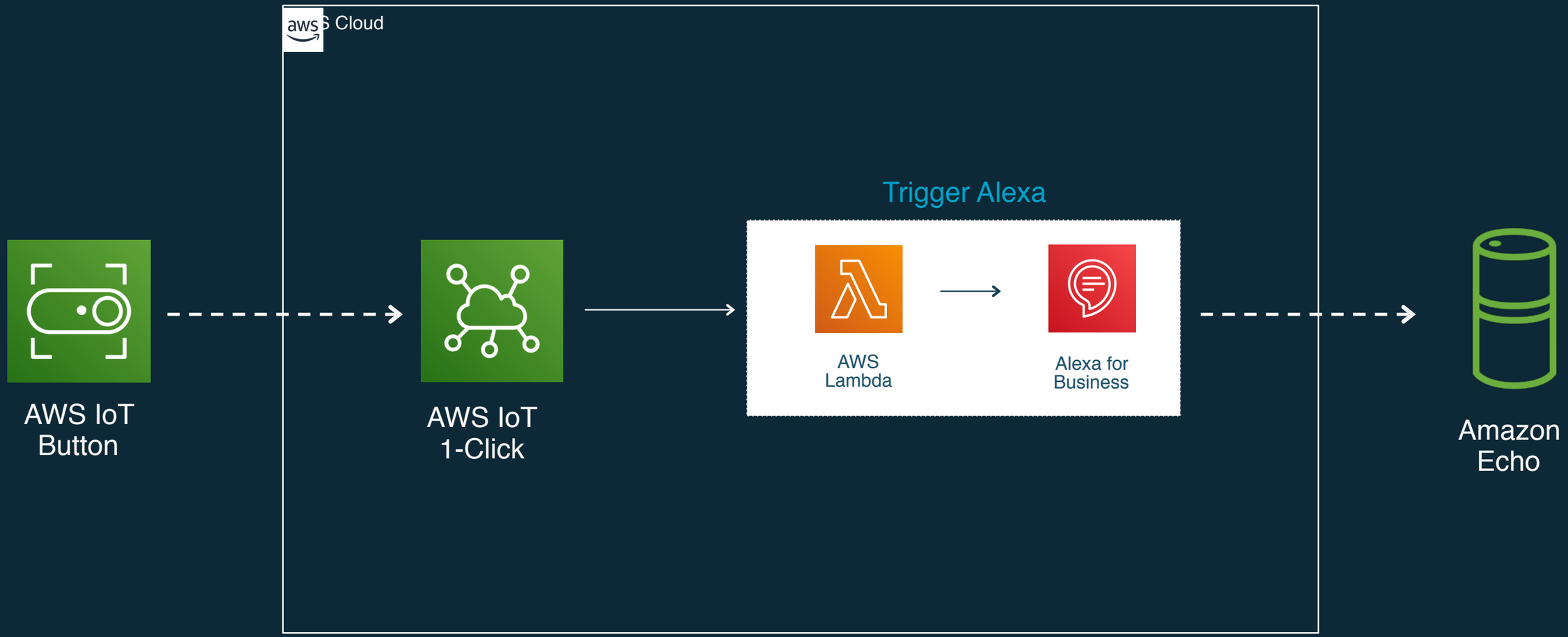
Demo 3 – Say hello with Alexa



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