AWS re:Invent

I O T 2 1 2 - R

Build an end-to-end IoT example with AWS IoT Core

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What will be doing in this session?

IoT scenario: Track-and-trace solution

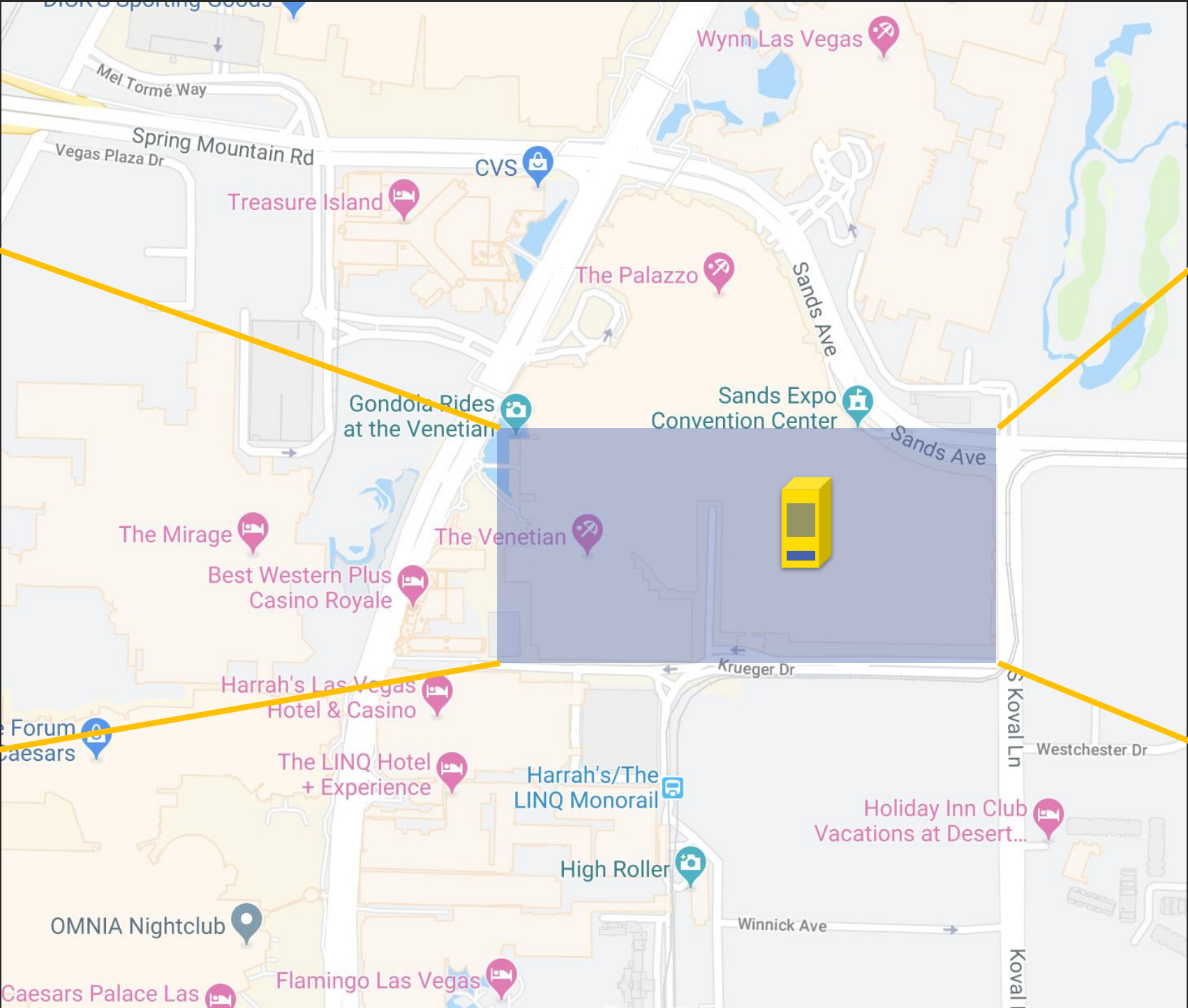Learn about AWS IoT Core

Solution architecture

Hands-on exercise

Conclusions

Use case: Track-and-trace vending machine
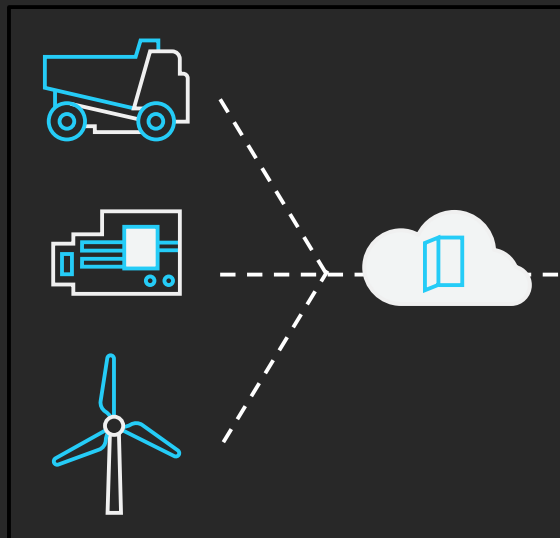

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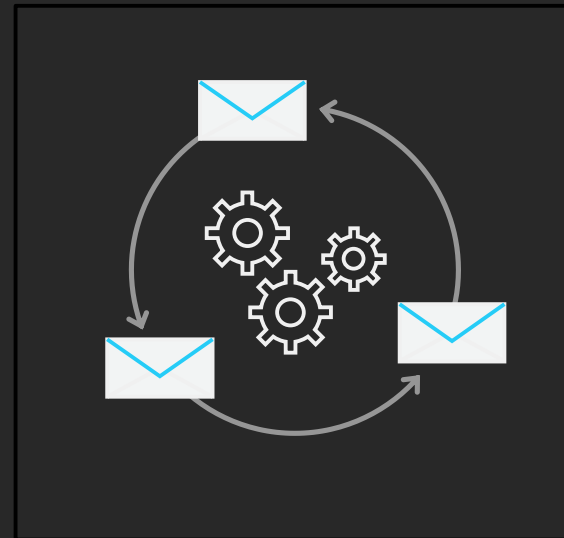36.122478, -115.164460

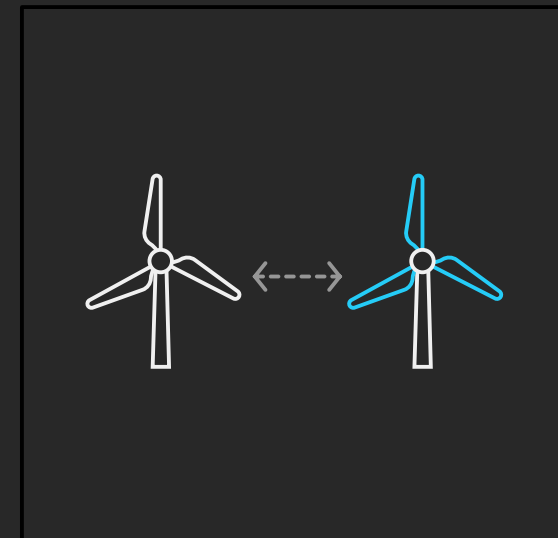36.120121, -115.170897

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AWS IoT Core

AWS IoT Core is a managed service that lets connected devices easily and securely interact with cloud applications and other devices

To **securely** connect devices to the AWS Cloud & other devices at scale

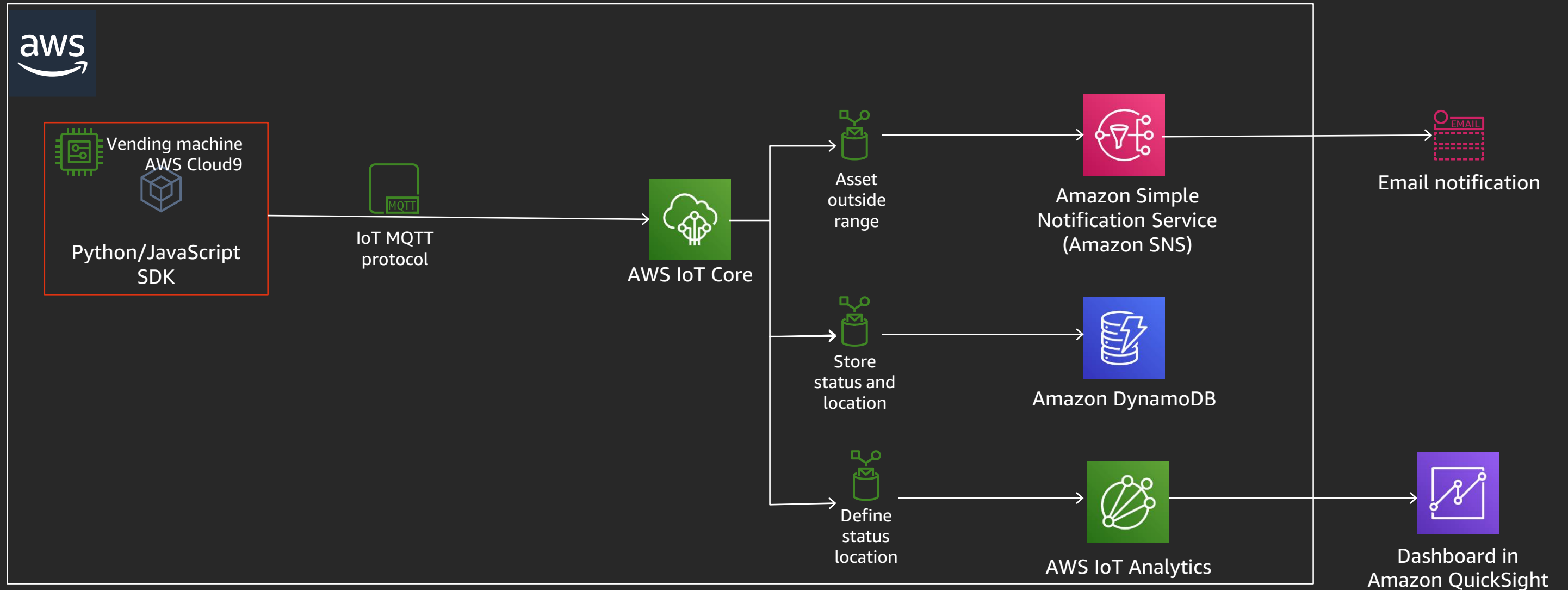To **route**, process, and act upon data from connected devices

To enable applications to interact with devices even when they are offline

To fully **integrate** with other AWS services to reason on top of the data (AWS IoT Analytics, databases, AI, etc.)

Track-and-trace solution architecture

What will you need for this session?

- Your laptop
- AWS account with admin privileges
- Internet connection

Hands-on exercise → bit.ly/iot-tnt

Conclusions

- AWS IoT currently supports 8 SDKs + MQTT + HTTPS

- AWS IoT rules allow the device data to flow to the appropriate destination

- Amazon SNS will help to enable alarms of your devices

- You can store your IoT data with any AWS storage service like Amazon DynamoDB or Amazon Simple Storage Service (Amazon S3).

- Use AWS IoT Analytics and Amazon QuickSight to get your thing insights

- AWS allows you to implement your custom IoT solution

re:Invent related sessions

Breakout sessions

- IOT208 - What's new with AWS IoT analytics services?
- IOT220-R - Building end-to-end solutions
- IOT213 - What's new with AWS IoT connectivity and control services?

Chalk talks

- IOT327-R - Best practices and architectures for IoT
- IOT328-R - Field to cloud with AWS IoT
- IOT338-R - Going from PoC to production for IoT devices

Builder sessions
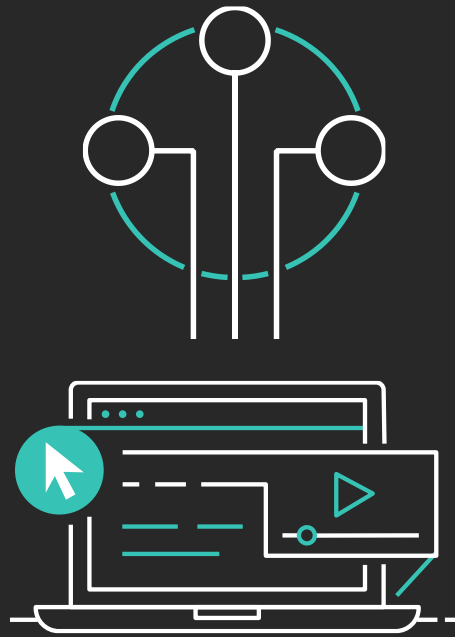
- IOT211-R - Building voice-controlled home devices with AWS IoT and Amazon Alexa
- IOT320-R - Visually build applications with AWS IoT Things Graph

Workshops

- IOT402-R - Building an AWS IoT-enabled drink dispenser
- IOT203-R - Getting started with IoT security

Learn IoT with AWS Training and Certification

Resources created by the experts at AWS to help you build IoT skills

Take the free digital curriculum, Internet of Things (IoT) Foundation Series, to build IoT skills and work through common scenarios

25+ additional free digital courses cover topics related to IoT, including:

- AWS IoT Core
- AWS IoT Greengrass
- AWS IoT Analytics

- AWS IoT Device Management
- AWS IoT Events

Visit the Learning Library at https://aws.training

aws training and certification

Thank you!

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