
AWS
re:Invent
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FWM002

Collect and analyze movement data with Amazon Location Service

Abraham Poorazizi (he/him)

Senior Developer Advocate
AWS

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Agenda

Introduction

Challenges

Solution

Demo

Next steps

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What is movement data?

```
{
   "DeviceId":"123",
   "Position":[-123.1784, 49.1924],
   ”SampleTime":"2022-10-02T19:10:11.125Z"
}
```

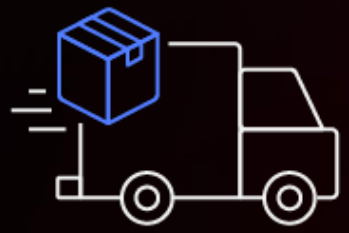


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What can you do with it?



Where



What



When

aws

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Common use cases



Transportation

- Current status
- Location-based actions
- Network performance



Worker safety

- Current status
- Stress and fatigue
- High-risk places and times

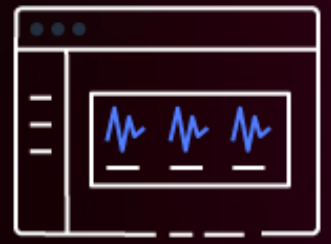
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Challenges



Data collection

- Volume
- Velocity
- Veracity



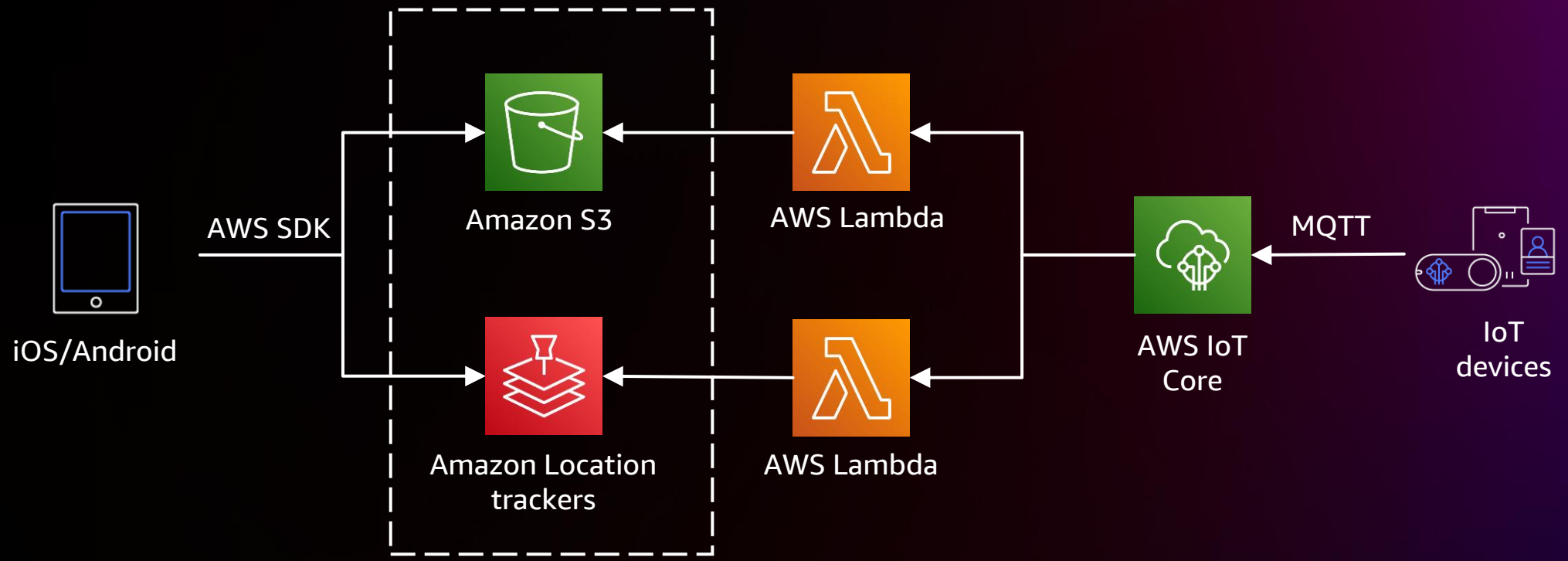
Data analysis

- Value
- Variety
- Visualization

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Solution – Data collection

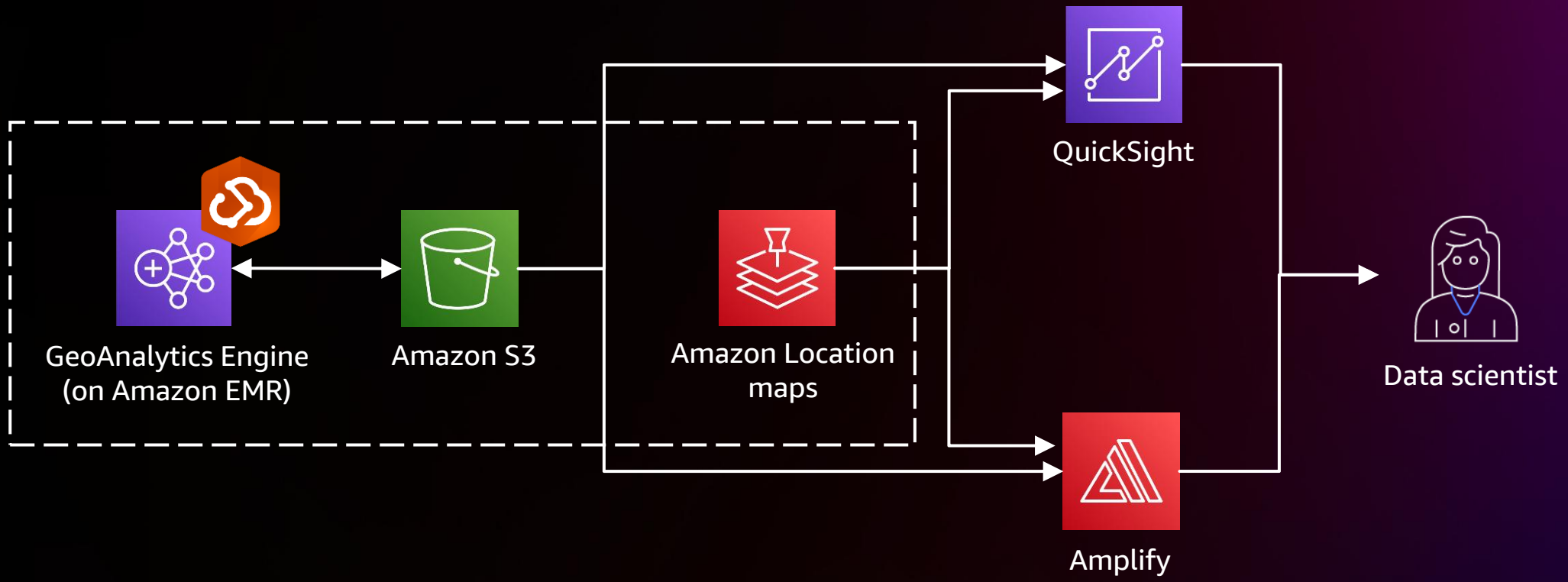
HOW TO COLLECT DATA WITH MINIMUM NOISE AND STORE IT EFFICIENTLY



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Solution – Data analysis

HOW TO DEAL WITH MULTI-DIMENSIONAL DATA AND ANALYZE IT EFFICIENTLY



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Next steps

- Get started
  - Try Amazon Location's interactive learning tool
  - Check out Amazon Location's developer guide
  - Learn how to run Esri's GeoAnalytics Engine on AWS
- Dive deeper
  - Learn more about maps
  - Learn more about trackers
  - Build apps with Amazon Location Service
- Read
  - Big Data Analytics with Amazon EMR and Esri's ArcGIS GeoAnalytics Engine
  - Amazon Location Service enables Position Filtering to reduce position jitter and cost of tracking
  - Industrial Personnel & Hazard Tracking with Amazon Location Service

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Thank you!

Abraham Poorazizi
@mepa1363



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