Innovator Island – Day 4

Build a serverless web app for a theme park

James Beswick
Sr. Developer Advocate, AWS Serverless

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About me

- James Beswick
  - Email: jbeswick@amazon.com
  - Twitter: @jbesw
- Senior Developer Advocate – AWS Serverless
- Self-confessed serverless geek
- Software Developer
- Product Manager
- Previously:
  - Multiple start-up tech guy
  - Rackspace, USAA, Morgan Stanley, J P Morgan
  - Enjoys travel, coffee, comedy and theme parks…

Day 4 agenda

Analyzing visitor stats

The tools and services

Coding and discussion

Full 5-day agenda at
http://bit.ly/islandworkshop

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Prerequisites

- AWS account – personal account with full admin access
- Use one of the supported regions:
  - us-west-2 (US West - Oregon), us-east-2 (US East - Ohio), us-east-1 (US East - Northern Virginia), ap-southeast-2 (Sydney, Australia), eu-central-1 (Frankfurt, Germany)
  - New: just added Dublin (eu-west-1)!
- Cost:
  - Attending workshop is free
  - Today WILL incur small charges
  - See the cleanup section to remove resources
- Workshop <u>cannot</u> be completed with a tablet
- Compatible with Chrome/Firefox (not Safari)
- Familiarity with the AWS Management Console
- Continues from everything built on previous days

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This week's adventure

Day 1: Set up the app

- Deploy the frontend and backend applications

Day 2: Ride wait times

- Integrate your app with the ride systems so guests can see wait times

Day 3: Ride photos

- Build a photo-processing flow so guests can take selfies around the park

Day 4: Analyzing visitor stats

- Gain insights from all the wristband data collected from visitors

Day 5: Processing events

- Use an event bus to handle maintenance and ride malfunctions to improve operations

Full agenda at
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The AWS services you will be using today

Developer tools

AWS Cloud9

Backend services

AWS Lambda

Amazon S3

Amazon QuickSight

Amazon Kinesis Data Firehose

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Collecting and processing real time stats

```
{
    "event:": "Ride",
    "rideId": "ride-014",
    "rating": 4,
    "timestamp": "2020-02-25T20:59:33.184Z",
    "visitorId": 9,
    "visitor": {
        "id": 9,
        "firstName": "Kacie",
        "lastName": "Kahn",
        "age": 18,
        "birthday":
            "month": 7,
            "day": 25
        },
        "home": {
            "latitude": 42.058359409010635,
            "longitude": -90.28163047438535
        },
        "arrivalTime": "2020-02-25T20:20:16.787Z",
        "totalRides": 4
    }
}
```

Collecting and processing real time stats

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Go to
http://bit.ly/innovatorisland

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Bonus challenge

BI questions:

1. Free on your birthday
2. Staffing the turnstiles
3. Which rides are not performing?

Go to:

- https://bit.ly/innovatorisland
- Module 5: Advanced challenges

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#InnovatorIsland

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Thank you - see you tomorrow!

James Beswick, AWS Serverless
jbeswick@amazon.com
@jbesw

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