



AWS
re:Invent

SVS331-R2

Build an IT automation framework using AWS Step Functions

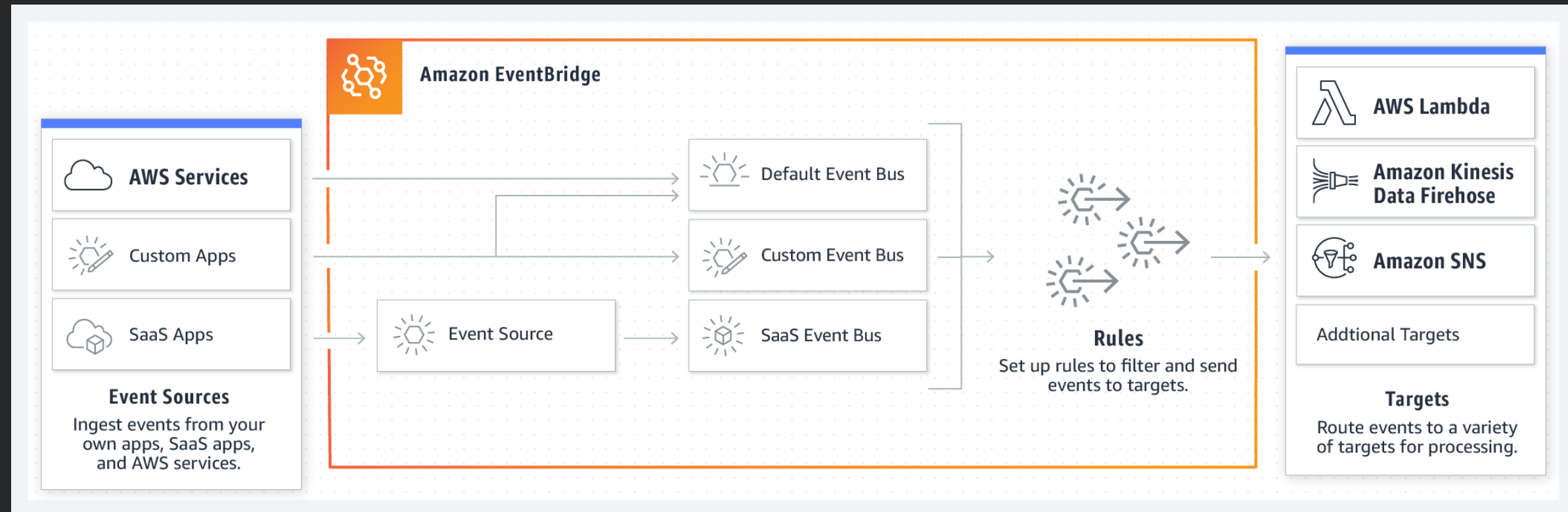
Moheeb Zara

Senior Developer Advocate
AWS Serverless

Agenda

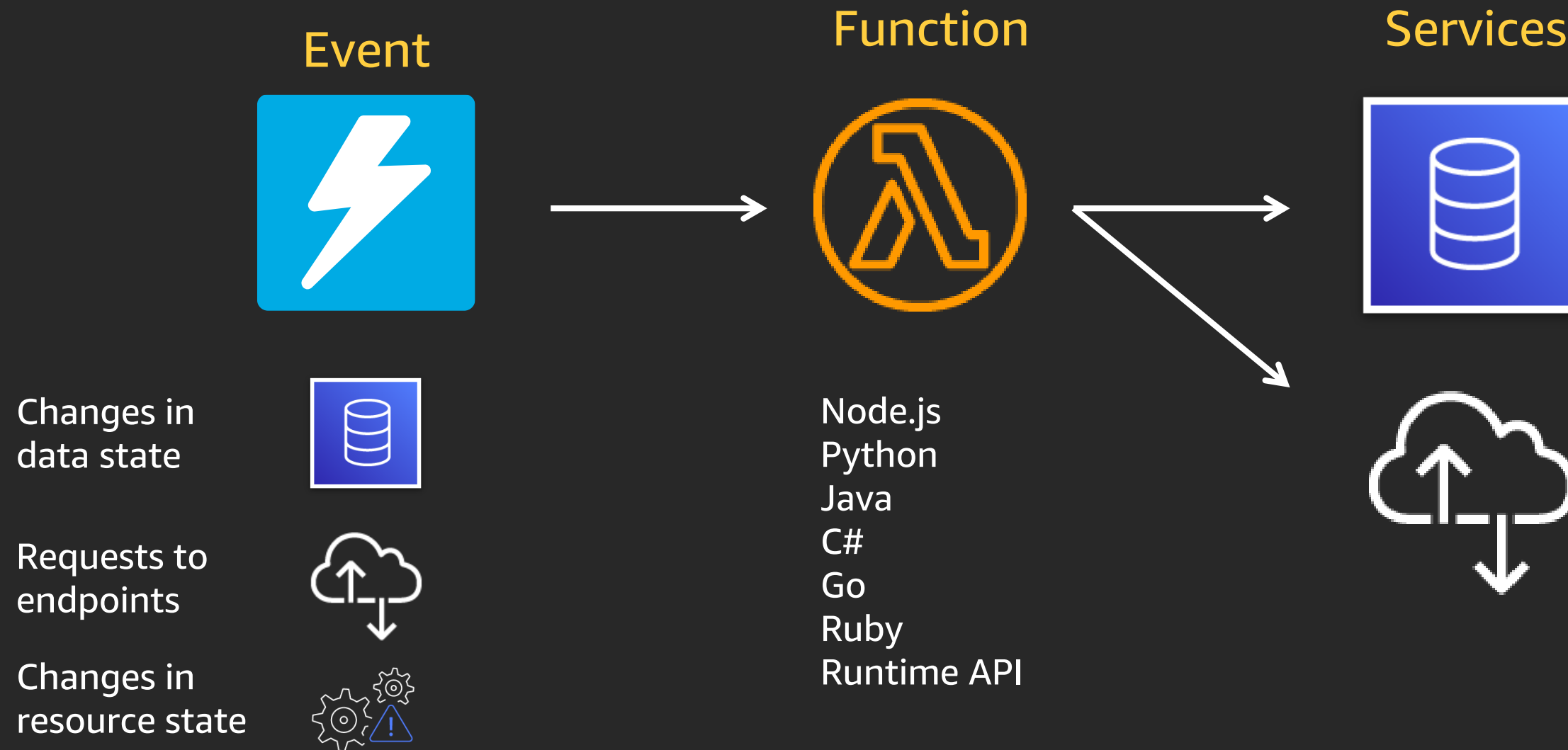
- AWS resources - Amazon EventBridge, AWS Lambda, AWS Step Functions, AWS Identity Access Management (IAM)
- AWS tools – AWS Serverless Application Model (AWS SAM) CLI
- Demo

Amazon EventBridge



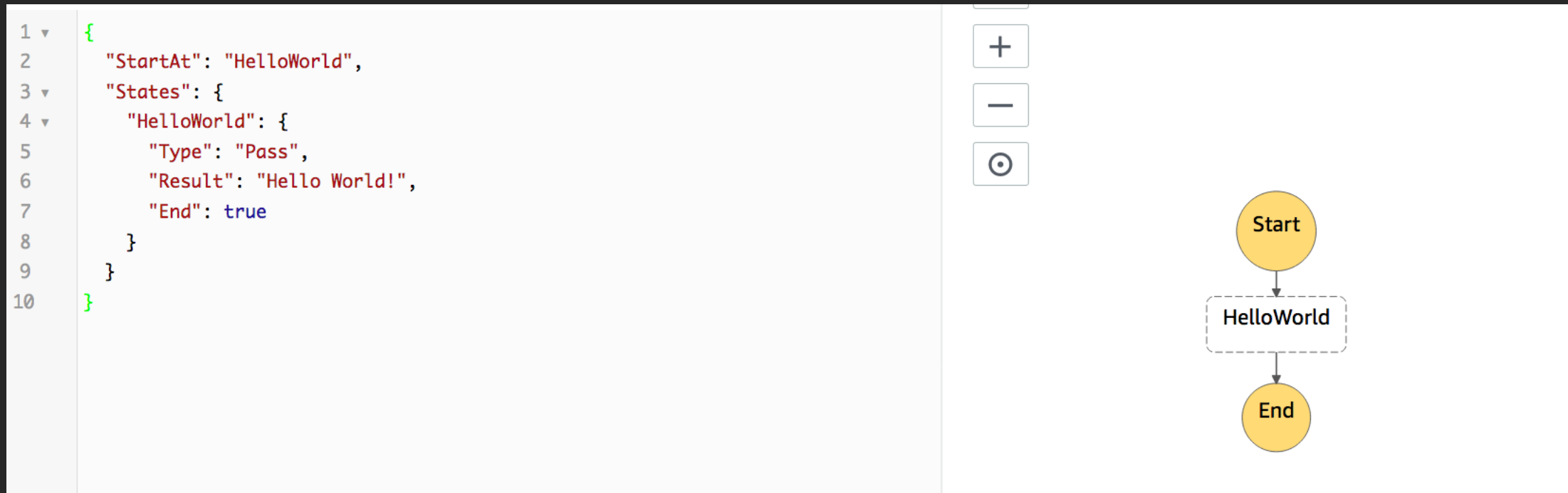
Ingest, filter, and deliver events

Serverless applications



AWS Step Functions

- JSON-based Amazon States Language
- Supports tasks (SNS, Lambda functions ...)



AWS Serverless Application Model (AWS SAM)



AWS CloudFormation extension optimized for serverless

Special serverless resource types: functions, APIs, tables, layers, and applications

Supports anything AWS CloudFormation supports

Open specification (Apache 2.0)

<https://aws.amazon.com/serverless/sam>

AWS SAM template

AWSTemplateFormatVersion: '2010-09-09'

Transform: AWS::Serverless-2016-10-31

Resources:

GetProductsFunction:

Type: AWS::Serverless::Function

Properties:

Handler: index.getProducts

Runtime: nodejs10.x

CodeUri: src/

Policies:

- DynamoDBReadPolicy:

TableName: !Ref ProductTable

Events:

GetResource:

Type: Api

Properties:

Path: /products/{productId}

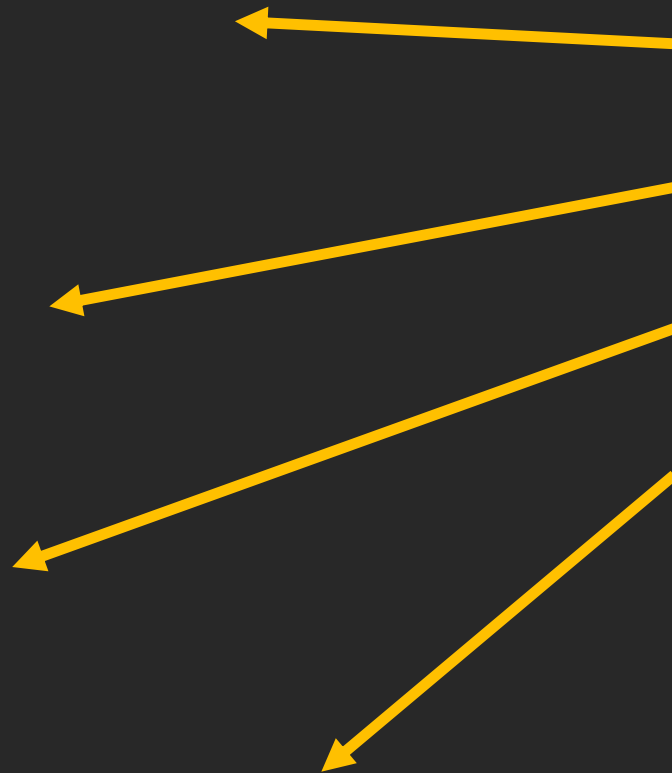
Method: get

ProductTable:

Type: AWS::Serverless::SimpleTable

Just 20 lines to create:

- Lambda function
- IAM role
- API Gateway
- Amazon DynamoDB table



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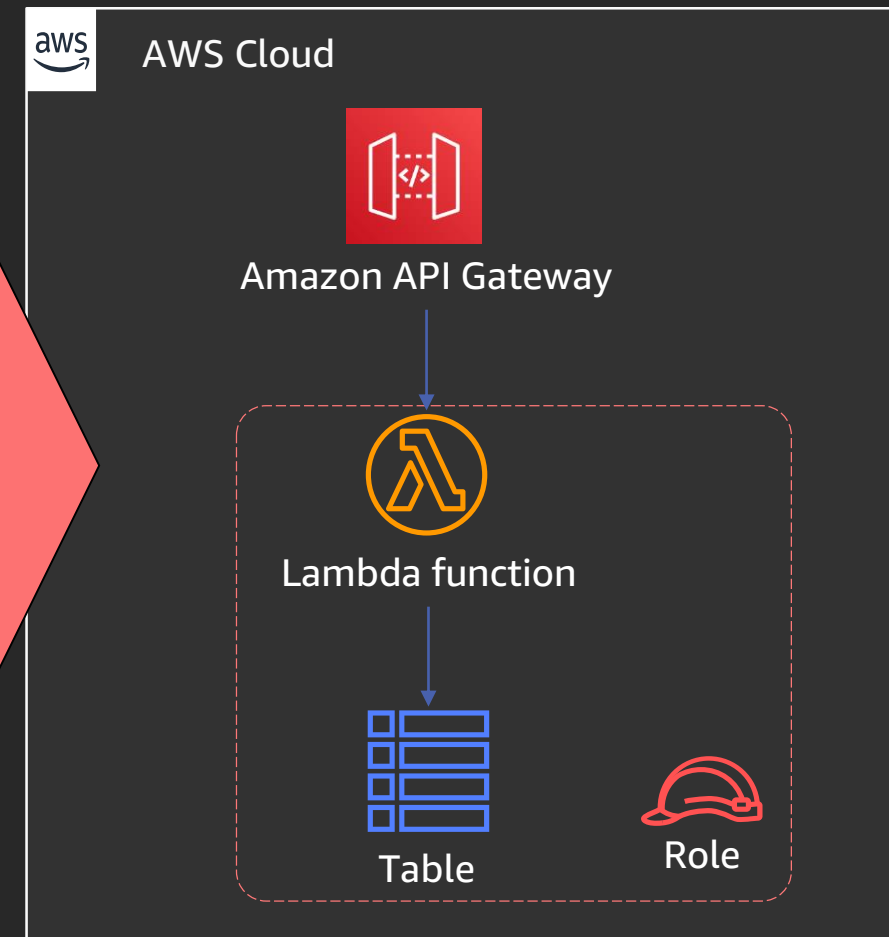
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Method: get

ProductTable:

Type: AWS::Serverless::SimpleTable

Allowing
← this
==
to become
this
→



Demo

bit.ly/385jMSP

Thank you!

Moheeb Zara

@virgilvox



Please complete the session
survey in the mobile app.