AWS re:Invent

NOV. 29 – DEC. 3, 2021 | LAS VEGAS, NV

SVS212

What's new in serverless

Talia Nassi (she/her)
Senior Developer Advocate, AWS Serverless
AWS

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About me



Hi 👋
I build serverless things.
Then I talk and write about them.
Test Engineer > Senior Developer Advocate

@talia_nassi

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Why are we here today?

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Serverless applications

Event source

Function

Destination







Changes in data state



Requests to endpoints



Changes in Resource state



Node.js
Python
Java
C#
Go
Ruby
Runtime API

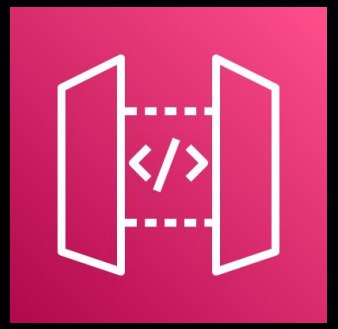


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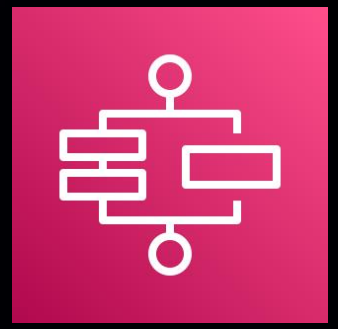
Serverless services



AWS Lambda



Amazon API Gateway



AWS Step Functions



Amazon EventBridge



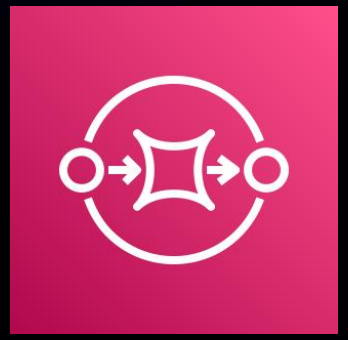
AWS Serverless Application Model (AWS SAM)

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But don’t forget!



Amazon Simple Notification Service (Amazon SNS)



Amazon Simple Queue Service (Amazon SQS)



AWS AppSync



Amazon Simple Storage Service (Amazon S3)



Amazon DynamoDB

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Serverless services



AWS Lambda

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AWS Graviton 2

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Graviton 2

NEW ARM64 CHIP SET



New processor for the cloud

Computationally heavy use cases
(graphics processing, machine learning)

Makes workloads faster and more
cost-effective in most cases

faster

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Graviton 2

NEW ARM64 CHIP SET



Functions run more efficiently



Up to 34% better price-performance



20% lower cost vs. same-sized Lambda functions

faster

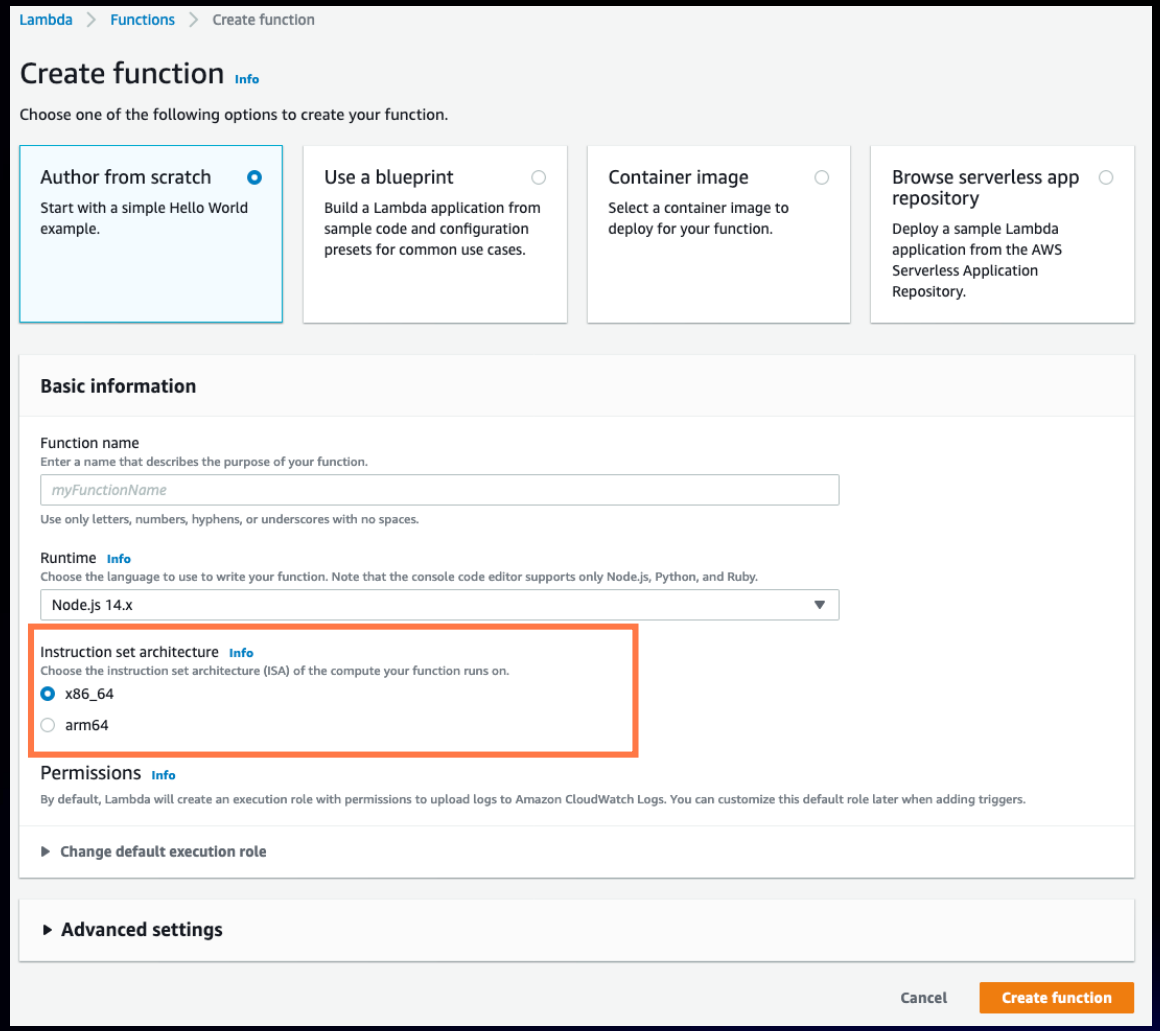
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Graviton 2

NEW ARM64 CHIP SET

Customers can target functions deployed with a container image or .zip file to run on x86-based or Arm-based processors powered by AWS Graviton 2



faster

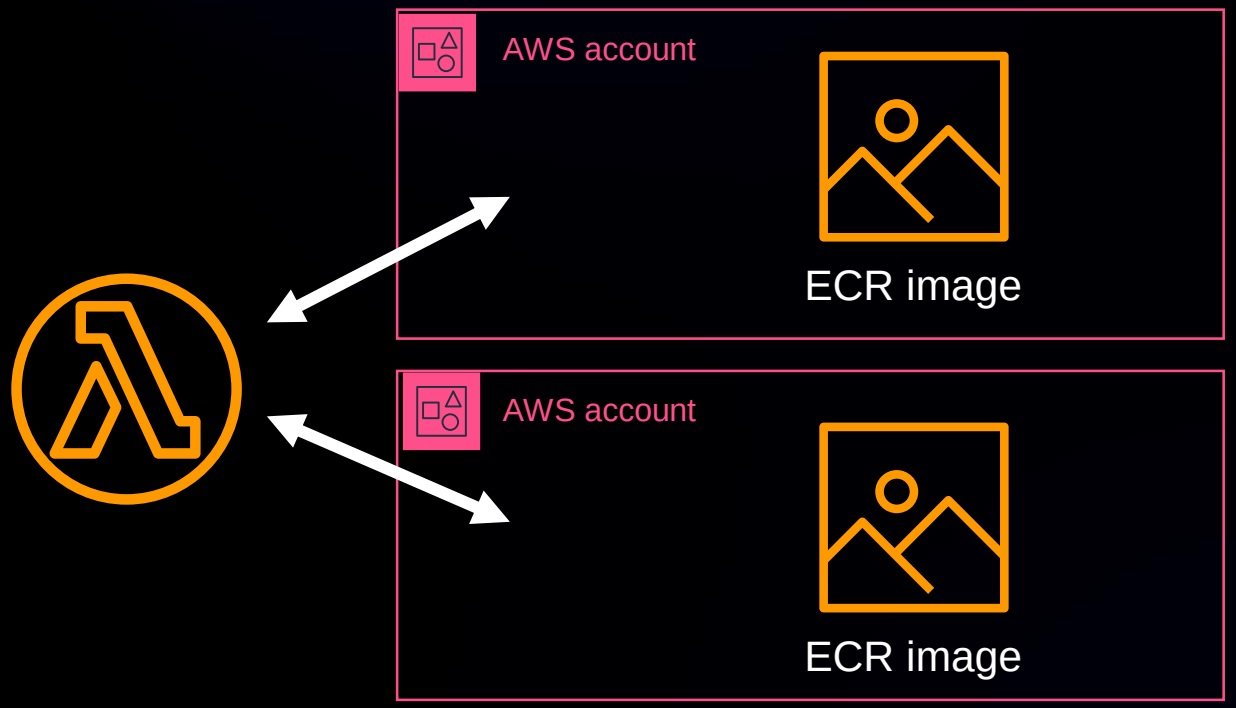
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Cross-account ECR images

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Cross-account ECR images

USE CONTAINER IMAGES IN A DIFFERENT ACCOUNT



- Previously, no access to container images stored in other accounts; you needed to replicate or copy images to the same account as your AWS Lambda function
- Avoids “it works on my machine”
- Supports multi-account strategy
- Simplifies build and deployment pipelines
- One source of truth



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Event filtering

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Event filtering

FILTER MESSAGES PRIOR TO THE INVOCATION OF YOUR AWS LAMBDA FUNCTION

- Previously, AWS Lambda function would get invoked based on incoming events from streams from Amazon Kinesis, Amazon DynamoDB, or Amazon SQS
- Now, when you set up the event source mapping, you specify what type of event you are interested in
- Could be an attribute
- Only invoke the AWS Lambda function if *xyz* is true
- Dramatic reduction in the number of invocations of your AWS Lambda function
- You don’t have to filter in your AWS Lambda function

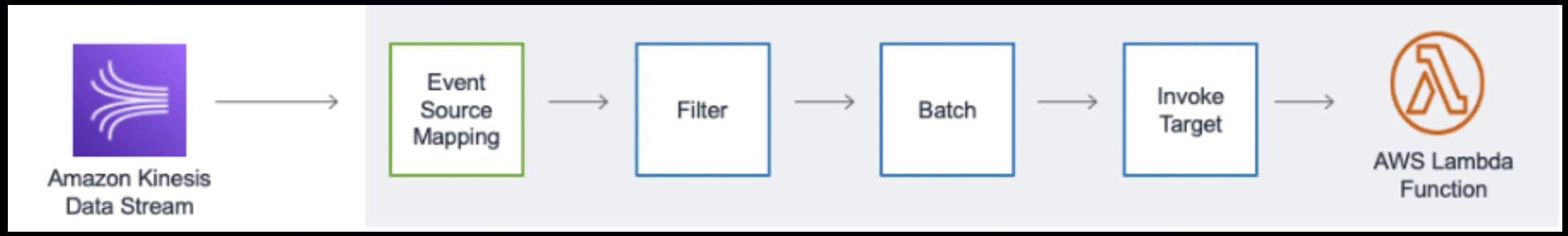


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Event filtering

FILTER MESSAGES PRIOR TO THE INVOCATION OF YOUR AWS LAMBDA FUNCTION



Trigger for your AWS Lambda function

Defines how the Lambda service handles incoming messages from the event source

Filter logic

Adds messages to the batch

Invokes the AWS Lambda function

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Event filtering

FILTER MESSAGES PRIOR TO THE INVOCATION OF YOUR AWS LAMBDA FUNCTION

Event 1:

```
{
   "userId":"talia",
   "second":599,
   "final":false
   “ranking”:5
}
```

Event 2:

```
{
   "userId":"talia",
   "second":600,
   "final":true,
   "ranking":3
}
```



Invokes the AWS Lambda function



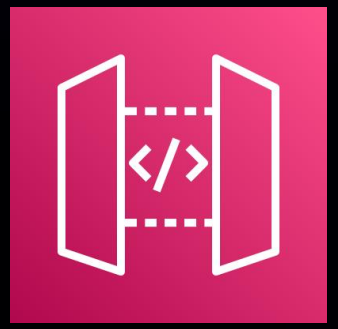
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Serverless services



AWS Lambda



Amazon API Gateway

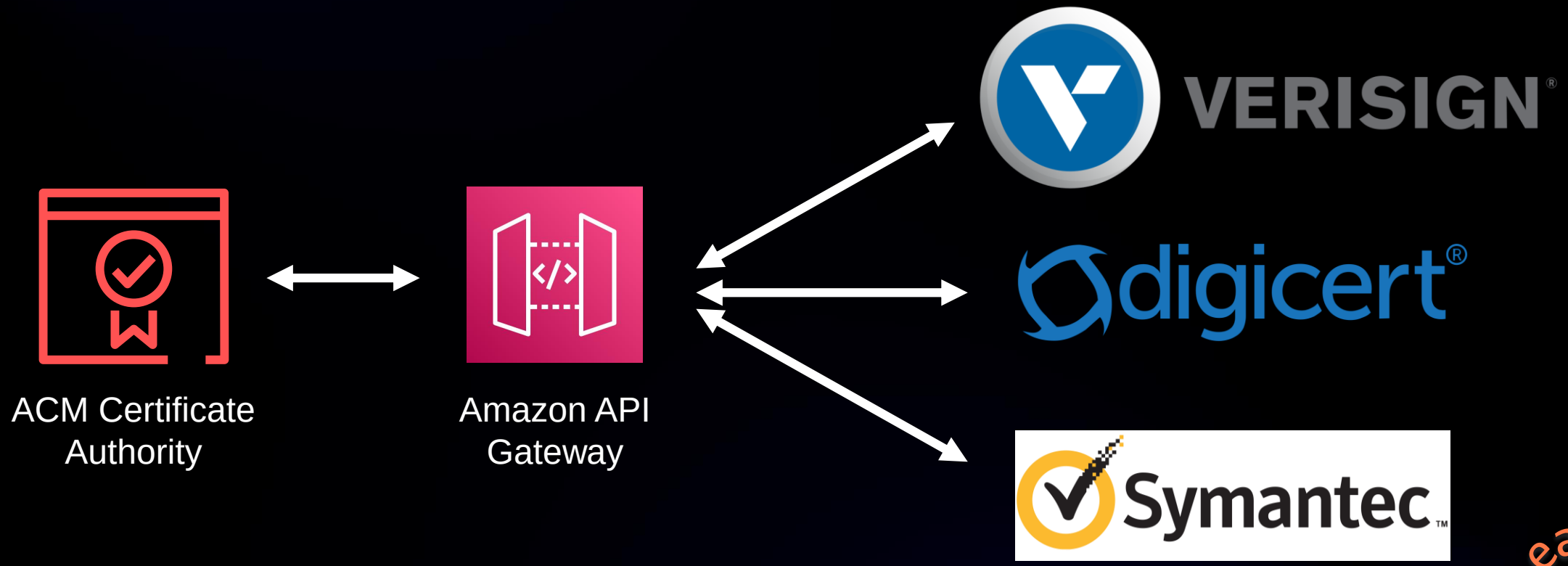
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Extended mutual TLS support for Amazon API Gateway

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Extended mutual TLS support for Amazon API Gateway

IMPORT A THIRD-PARTY CERTIFICATE AND BIND IT TO YOUR CUSTOM DOMAIN NAME



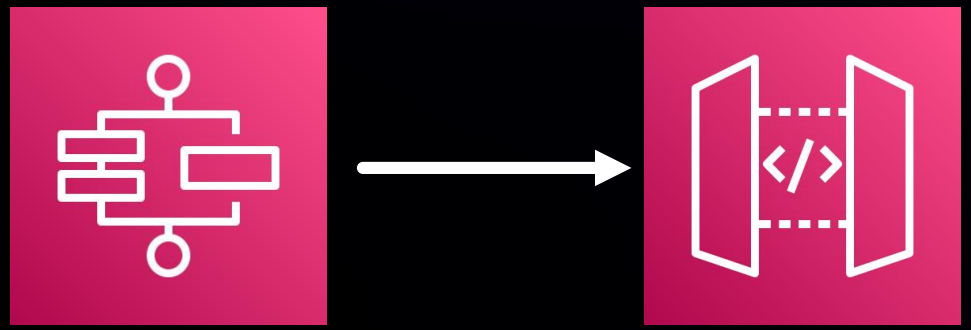
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Amazon API Gateway integration for AWS Step Functions

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Amazon API Gateway integration for AWS Step Functions

AWS STEP FUNCTIONS CAN NOW INVOKE AN AMAZON API GATEWAY ENDPOINT



- New resource type: `arn:aws:states:::apigateway:invoke`
- Can be used with both standard and express workflows
- Allows customers to call Amazon API Gateway REST APIs and HTTP APIs directly from an AWS Step Functions workflow
- Combine built-in error handling of AWS Step Functions with the authentication and throttling power of Amazon API Gateway

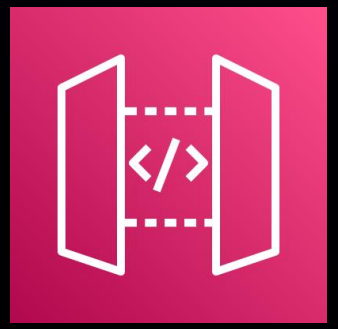


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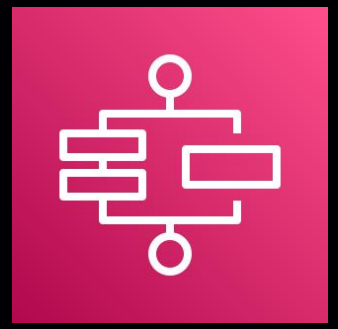
Serverless services



AWS Lambda



Amazon API Gateway



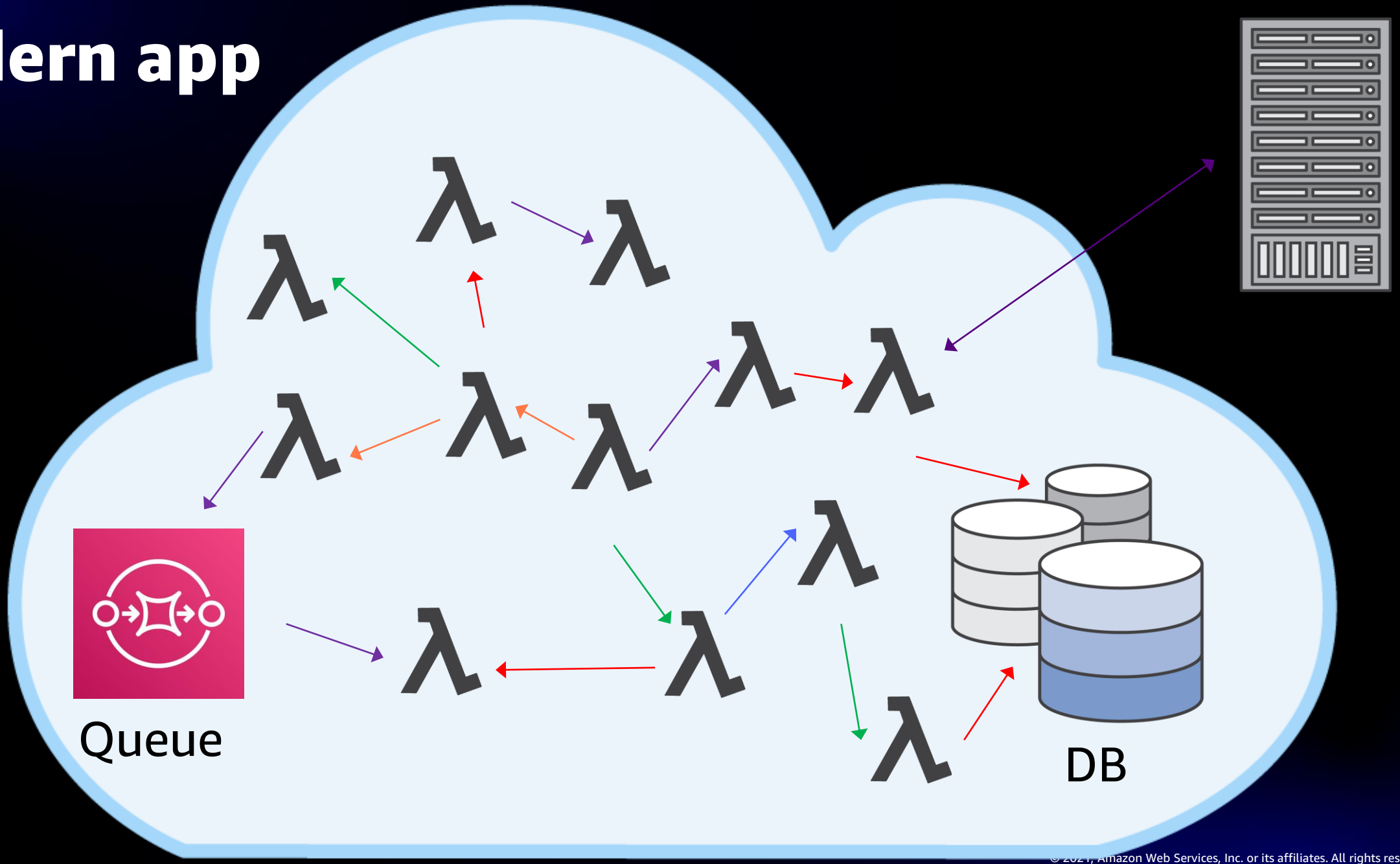
AWS Step Functions

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AWS Step Functions Workflow Studio

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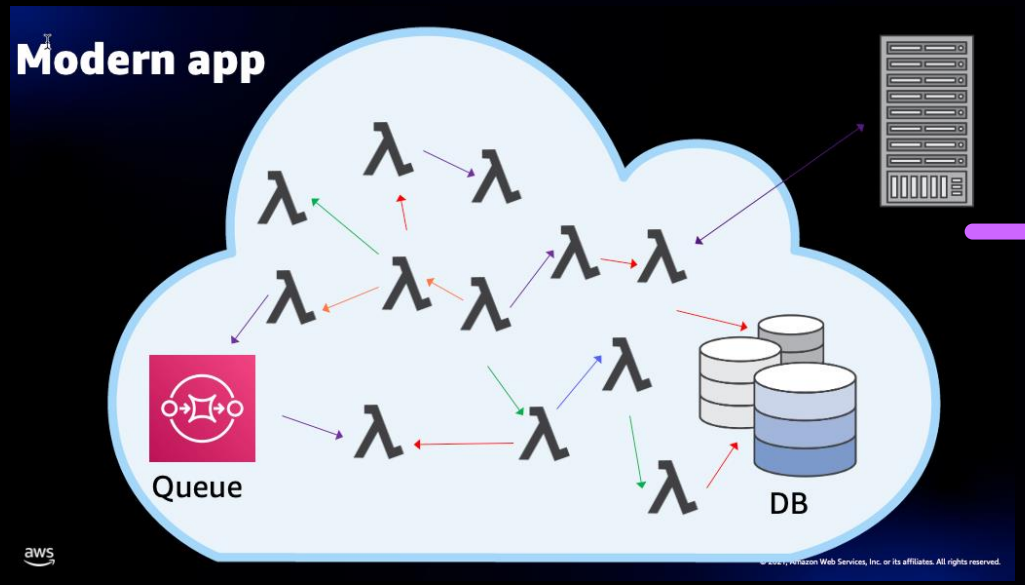
Modern app

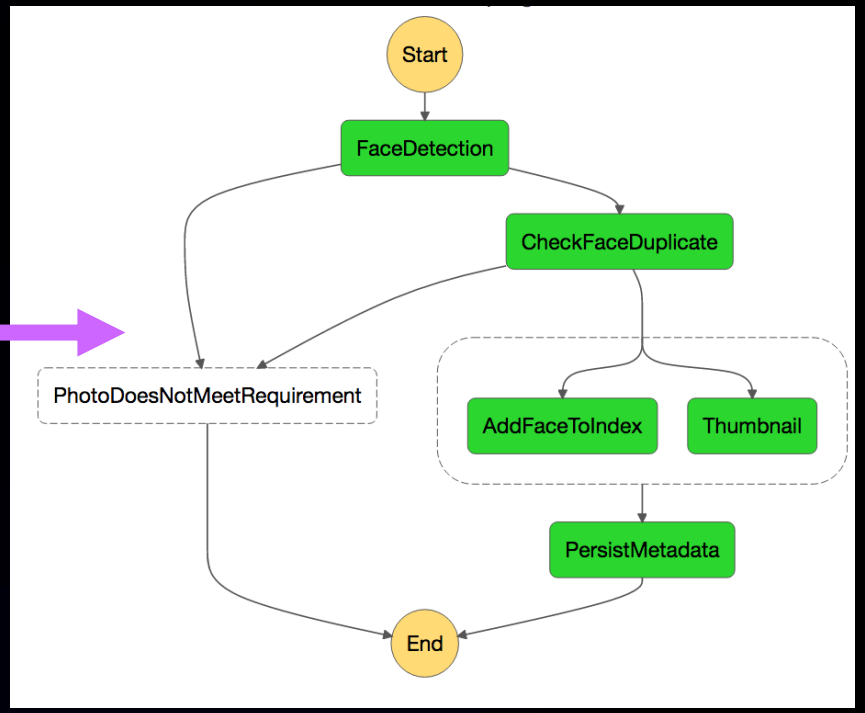


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AWS Step Functions Workflow Studio

VISUAL WORKFLOW ORCHESTRATION



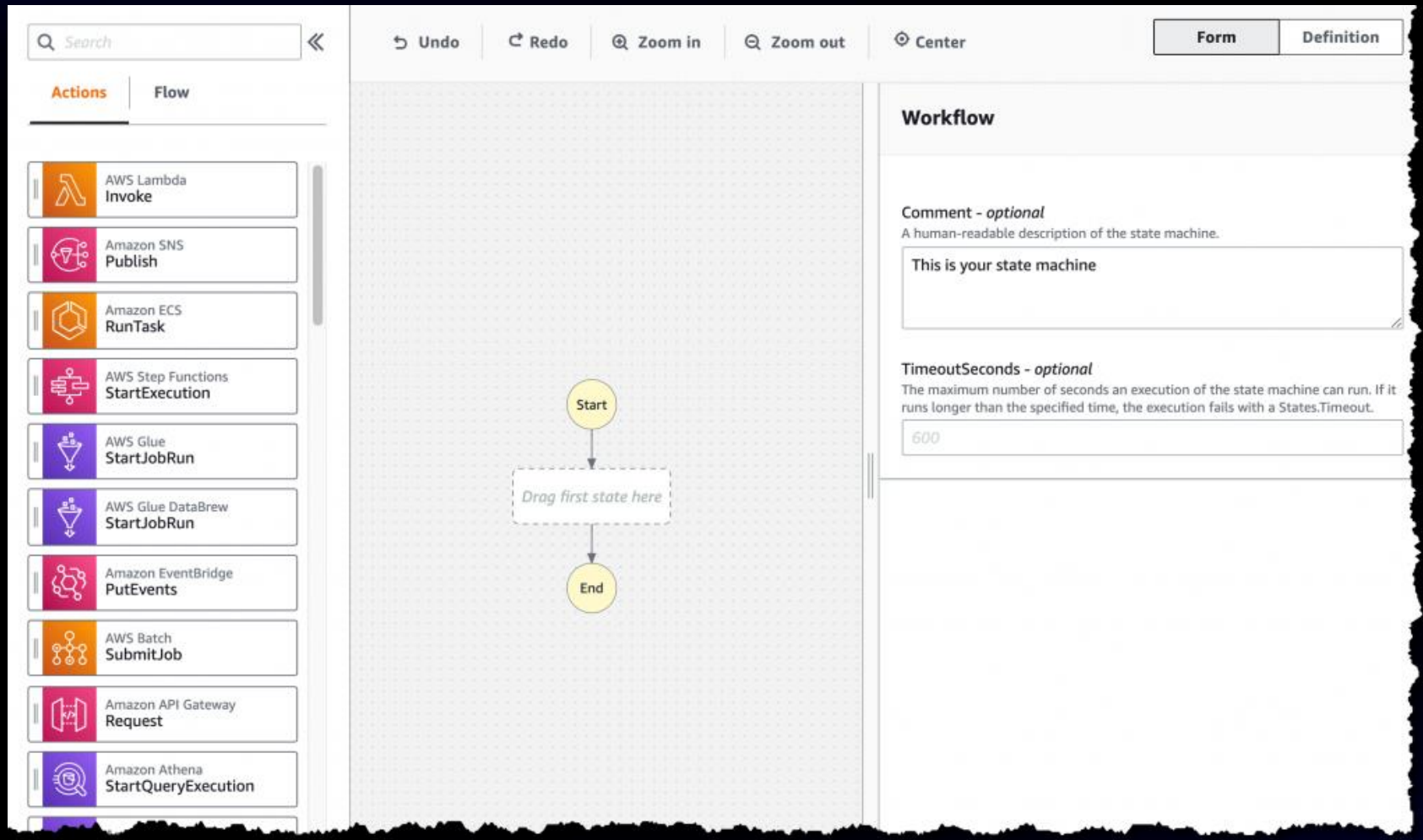


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AWS Step Functions Workflow Studio

VISUAL WORKFLOW ORCHESTRATION



- Focus on your business logic, not writing configuration code or workflow definitions
- Reduces time to build your first workflow
- Develop workflows faster using a visual tool
- Drag and drop different actions from AWS services, configure them from the UI, monitor your executions



aws

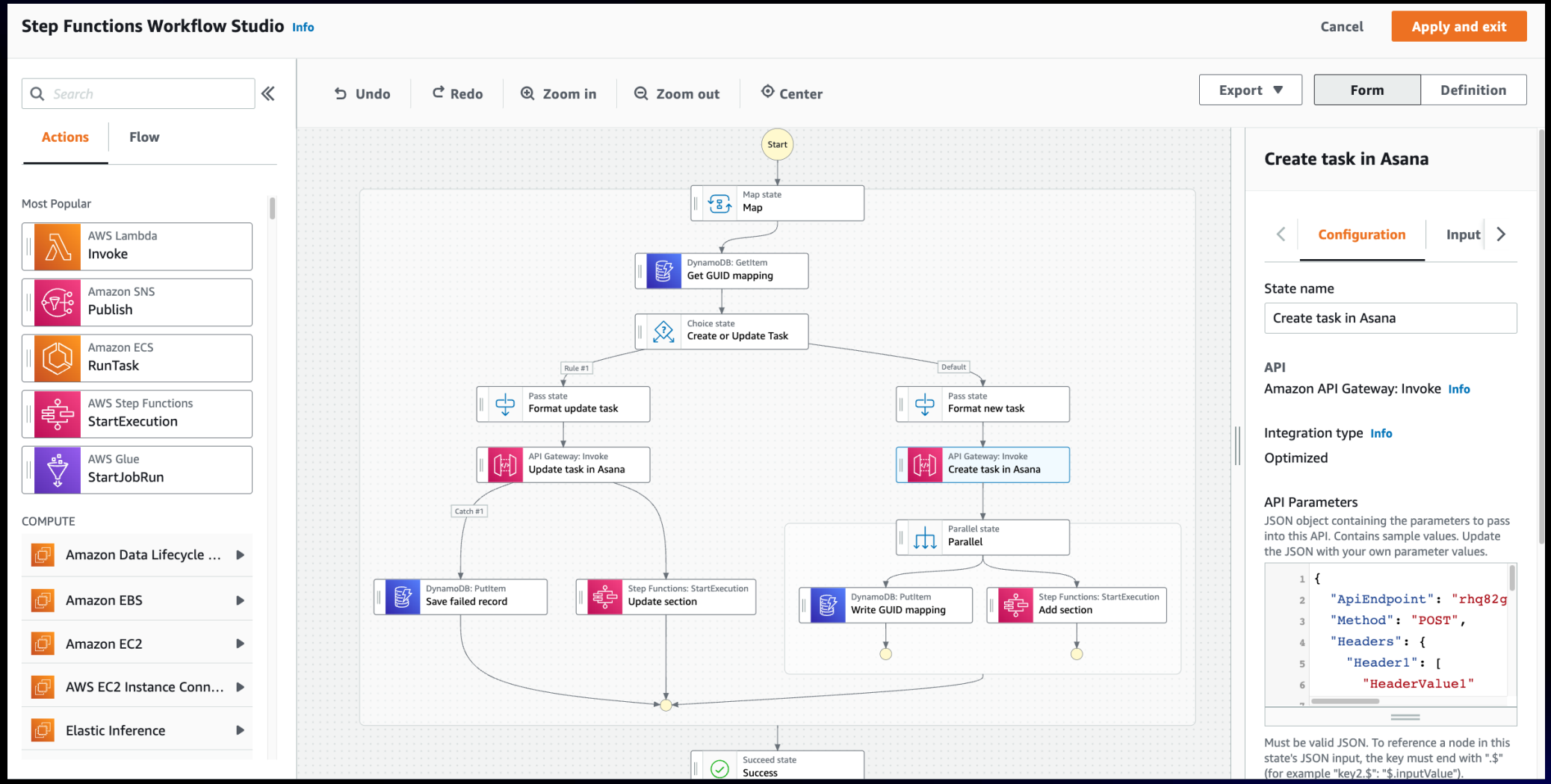
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AWS Step Functions SDK integration

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AWS Step Functions SDK integration

SUPPORT FOR OVER 200 AWS SERVICES



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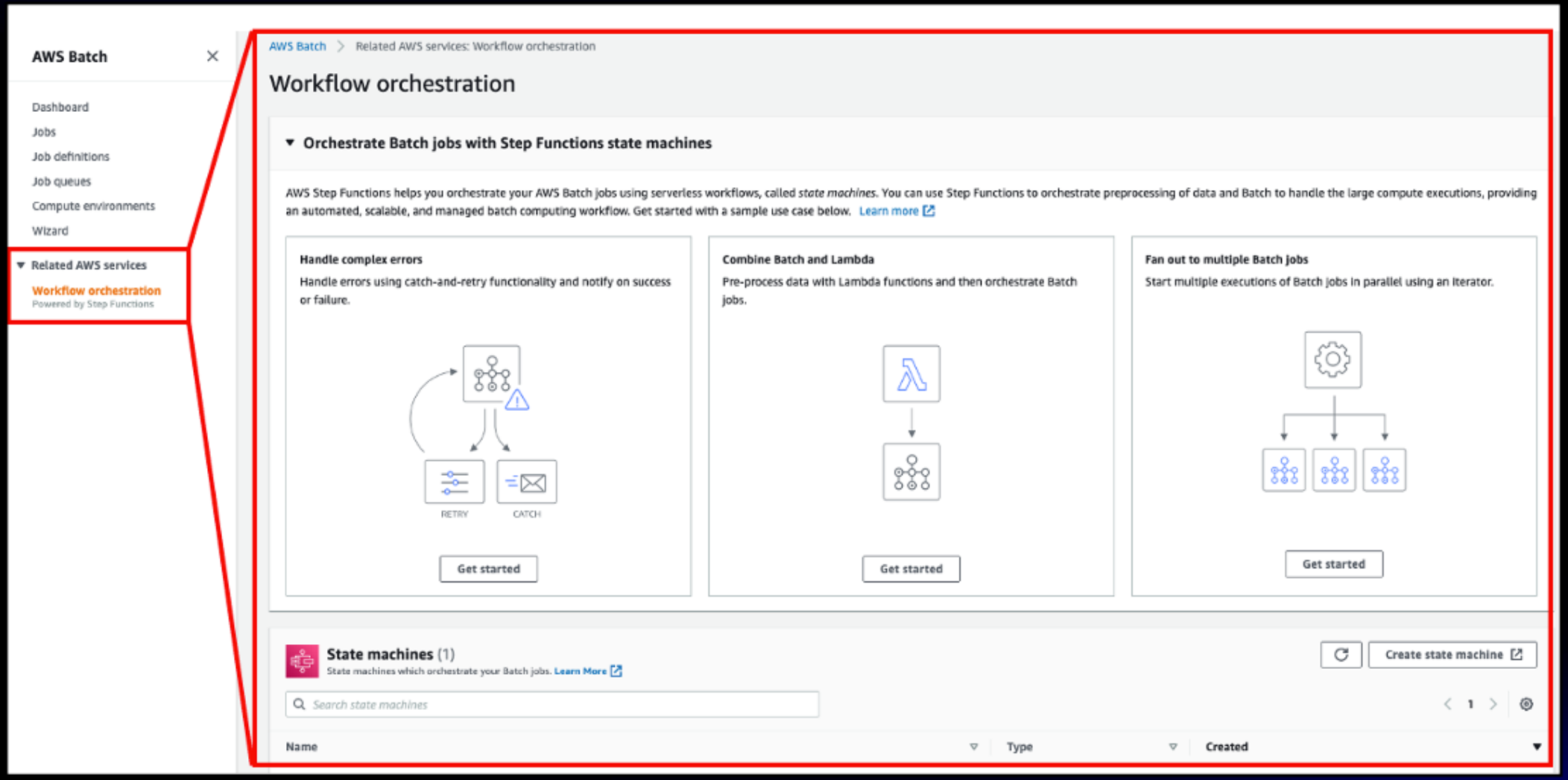
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AWS Batch adds console support for visualizing AWS Step Functions workflows

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AWS Batch console support

MANAGE AWS STEP FUNCTIONS WORKFLOWS FROM THE AWS BATCH CONSOLE



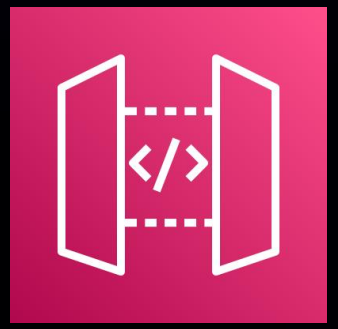
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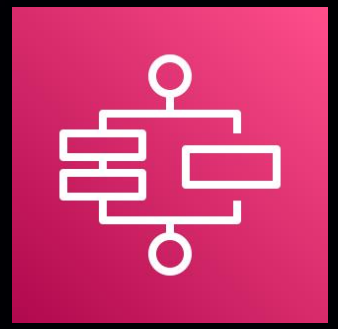
Serverless services



AWS Lambda



Amazon API Gateway

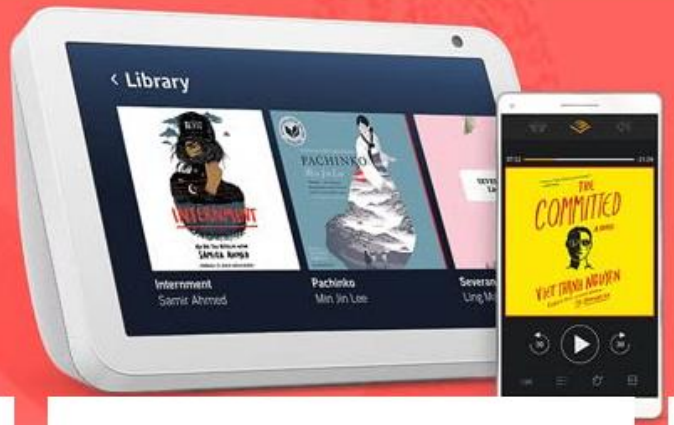


AWS Step Functions



Amazon EventBridge

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Stories unite us

audible

Hi, Trevor

Customer since 2011

Your recent order



See your orders

Recently viewed



Yesterday

Edit your browsing history

$5 off your first pickup order of $50+



Shop Whole Foods Market

Save on your weekly grocery order

Shop Amazon Fresh





Sponsored



Deal of the Day

Get warm weather ready

Events vs. APIs

Commands/APIs	Events
Synchronous	Asynchronous
Has an intent Directed to a target	It's a fact Happened in the past
"CreateAccount" "AddProduct"	"AccountCreated" "ProductAdded"

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event

[i-’vent] **noun**

A signal that a system’s state has changed.

Events

- JSON
- Facts
- Immutable
- Observable
- Temporal

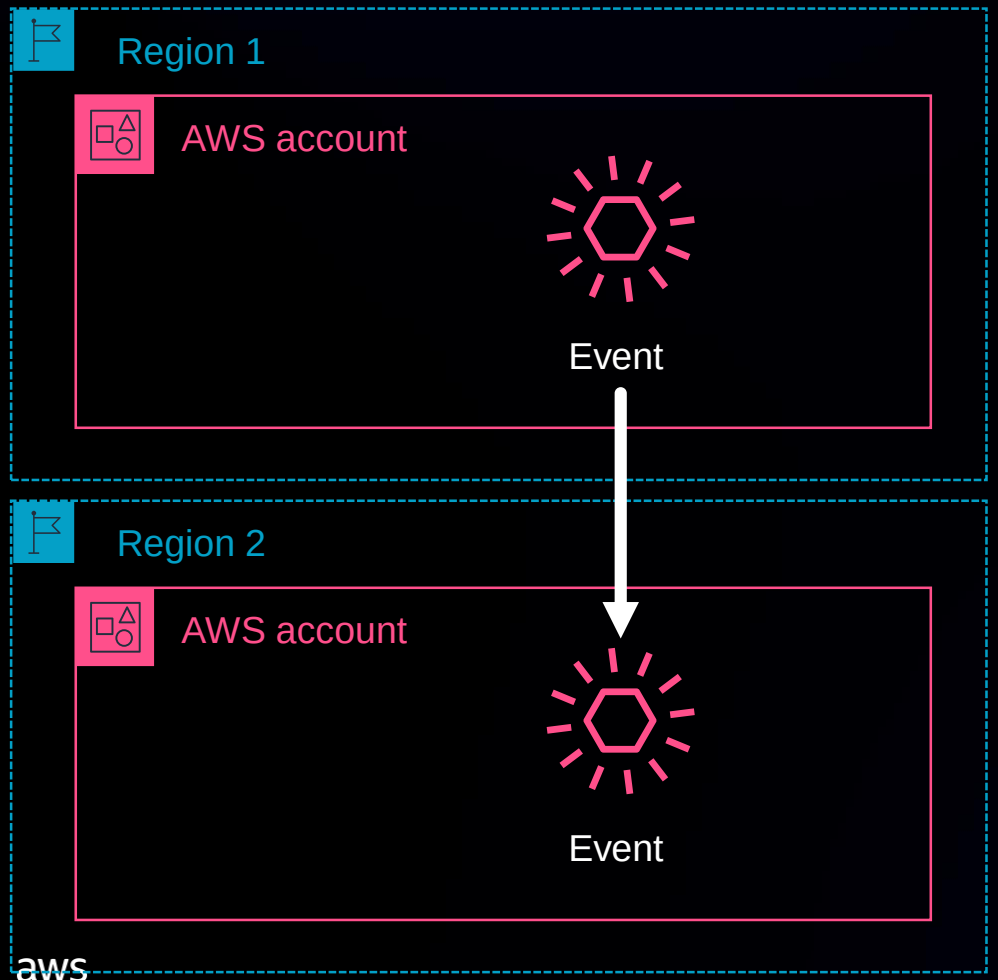
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Cross-Region event routing with Amazon EventBridge

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Cross-Region event routing with Amazon EventBridge

ROUTE EVENTS FROM ONE REGION TO ANOTHER



- Centralize your AWS events
- Invoke asynchronous workflows
- Replicate events to different Regions
- Makes it easier to develop multi-Region workloads

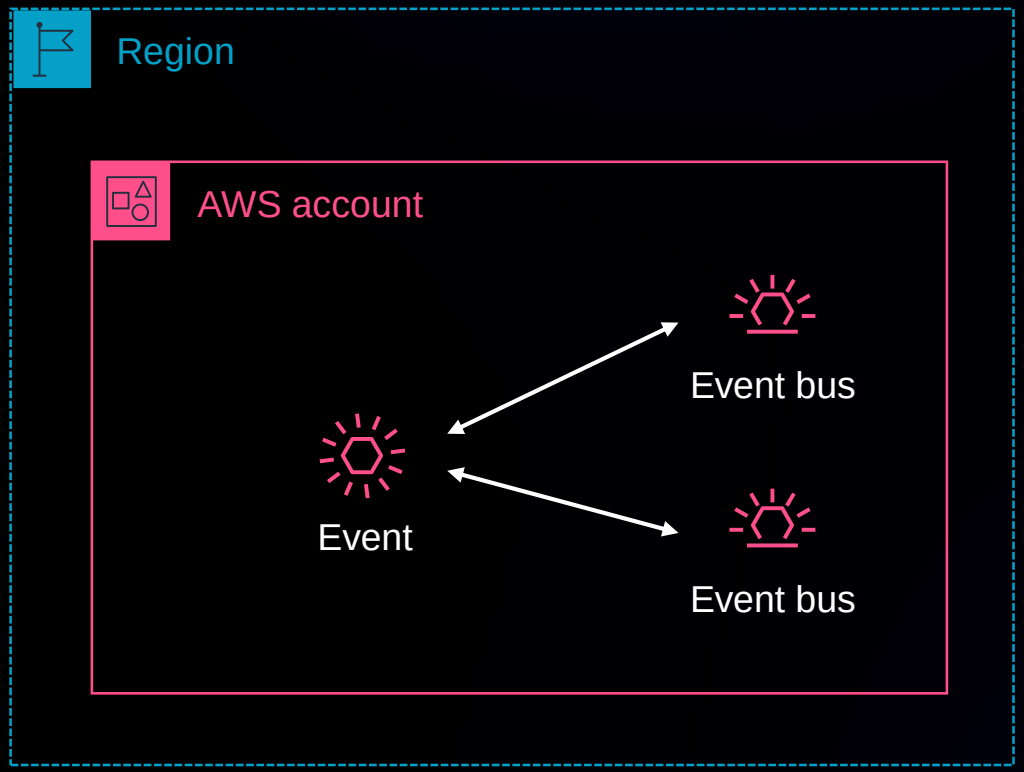
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Amazon EventBridge now supports sharing events between event buses in the same account and Region

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Sharing events between event buses in the same account and Region

INCREASED FLEXIBILITY IN ROUTING EVENTS IN YOUR WORKLOADS



- Previously, you couldn’t go from bus to bus in the same Region or account
- Route events to buses in the same account and Region
- Useful for keeping events used in similar workloads on their own buses

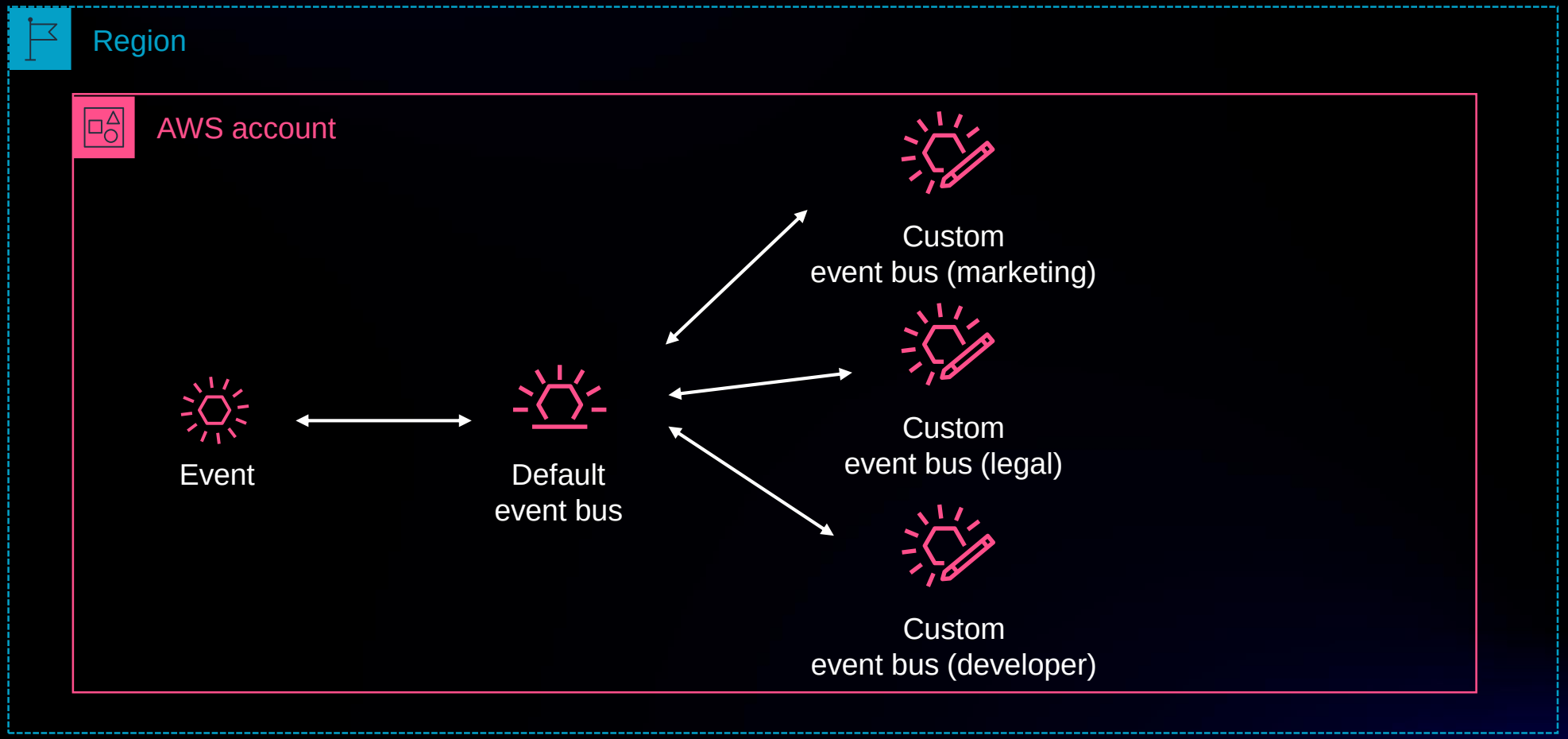


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Sharing events between event buses in the same account and Region

INCREASED FLEXIBILITY IN ROUTING EVENTS IN YOUR WORKLOADS



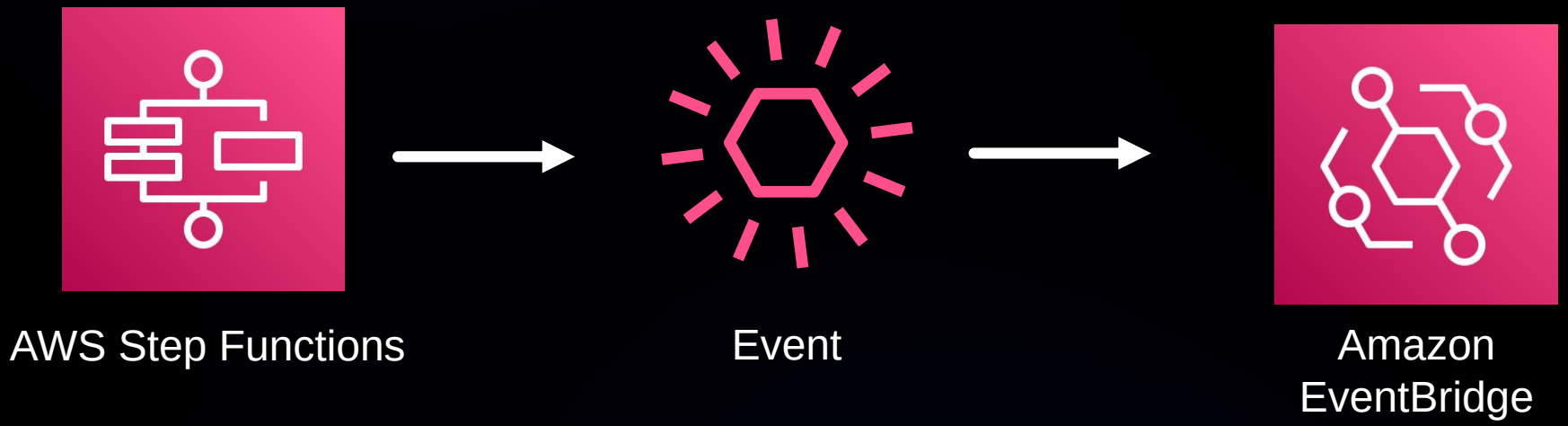
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AWS Step Functions integration with Amazon EventBridge

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AWS Step Functions integration with Amazon EventBridge

SEND CUSTOM EVENTS FROM YOUR AWS STEP FUNCTIONS WORKFLOWS TO AN EVENT BUS WITHOUT WRITING CUSTOM CODE

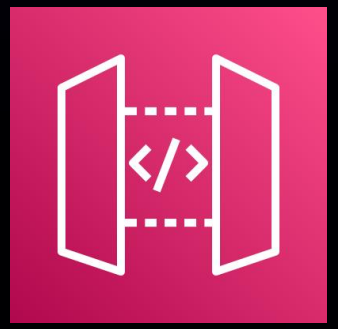


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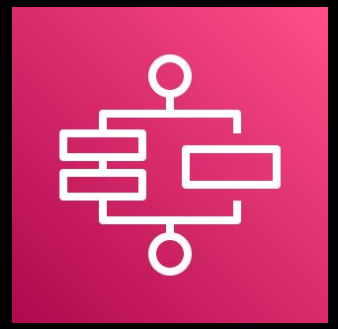
Serverless services



AWS Lambda



Amazon API Gateway



AWS Step Functions



Amazon EventBridge



AWS SAM

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AWS Management Console

AWS services

Recently visited services

- IAM
- Lambda
- VPC
- Amazon MQ
- Secrets Manager
- AWS AppSync
- Amazon Rekognition
- CloudWatch
- DynamoDB
- CloudFormation
- Cloud9
- S3
- Simple Notification Service
- Simple Queue Service
- Step Functions

All services

Build a solution

Get started with simple wizards and automated workflows.

Launch a virtual machine
With EC2
2-3 minutes

Build a web app
With Elastic Beanstalk
6 minutes

Build using virtual servers
With Lightsail
1-2 minutes

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AWS Application Migration Service

Lift and shift with minimal downtime and no changes to your applications. Learn more

Infrastructure as code (IaC)

- Automate the provisioning process
- Instantiate infrastructure using configuration files
- Treat configuration files as software code
- Reduce configuration drift through automation

AWS IaC solutions

- AWS CloudFormation
- AWS SAM
- AWS Cloud Development Kit (AWS CDK)

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Serverless Application Model



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AWS SAM comes in two parts



AWS SAM templates

Version your infrastructure as code

AWS SAM CLI

Utility that you install on your local machine that helps you with local development, debugging, builds, and deployments for your serverless application



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AWS SAM templates

```yaml
AWSTemplateFormatVersion: '2010-09-09'
Transform: AWS::Serverless-2016-10-31
Resources:
  GetProductsFunction:
    Type: AWS::Serverless::Function
    Properties:
      CodeUri: src/
      Handler: app.lambda_handler
      Runtime: python3.8
      Policies:
        - DynamoDBReadPolicy:
            TableName: !Ref ProductTable
      Events:
        HelloWorld:
          Type: HttpApi
          Properties:
            Path: /products/{productId}
            Method: get
  ProductTable:
    Type: AWS::Serverless::SimpleTable
```

In 20 lines it creates:

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

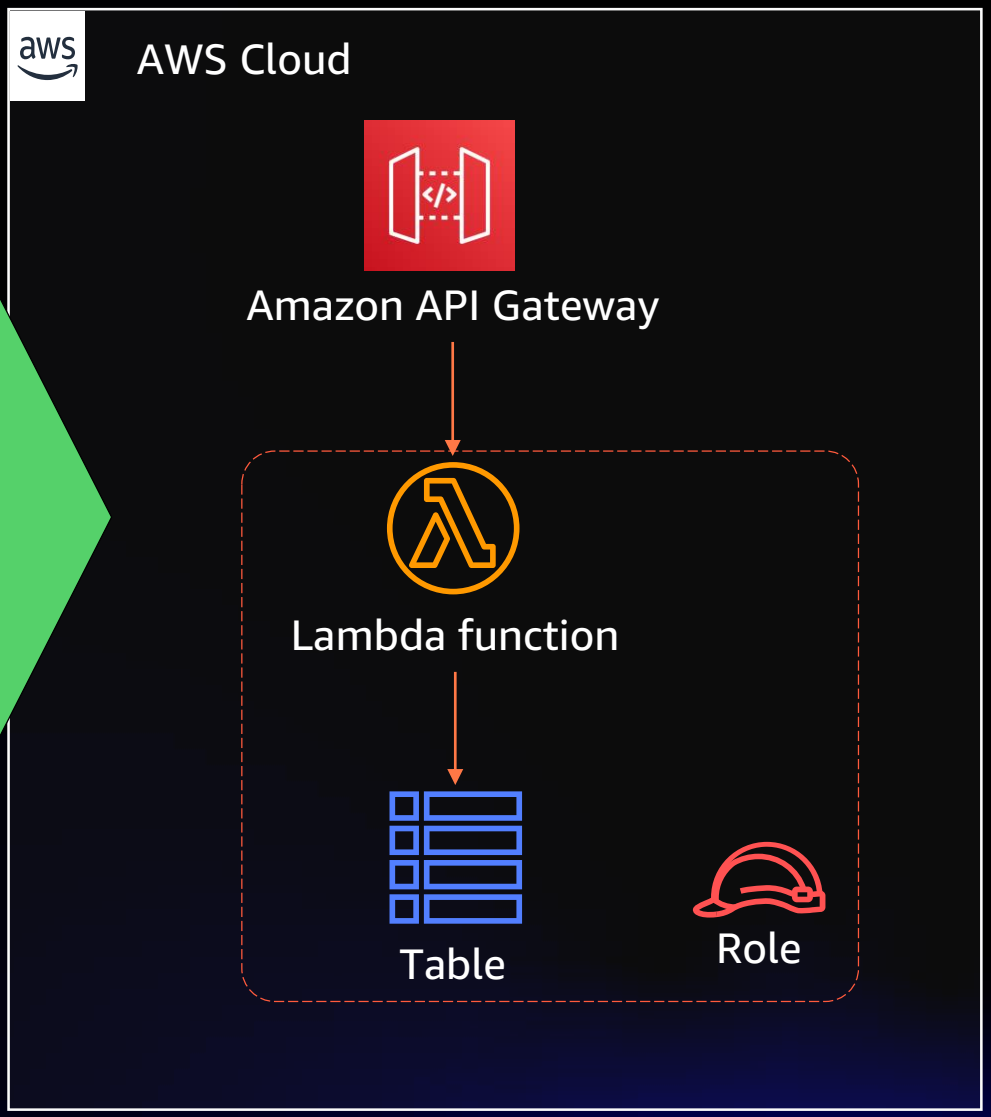
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AWS SAM templates

```yaml
AWSTemplateFormatVersion: '2010-09-09'
Transform: AWS::Serverless-2016-10-31
Resources:
  GetProductsFunction:
    Type: AWS::Serverless::Function
    Properties:
      CodeUri: src/
      Handler: app.lambda_handler
      Runtime: python3.8
      Policies:
        - DynamoDBReadPolicy:
            TableName: !Ref ProductTable
      Events:
        HelloWorld:
          Type: HttpApi
          Properties:
            Path: /products/{productId}
            Method: get
  ProductTable:
    Type: AWS::Serverless::SimpleTable
```

Allowing this

To become this



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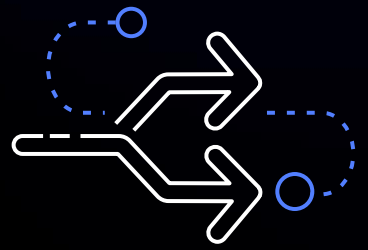
AWS SAM Accelerate

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AWS SAM Accelerate

ITERATE AGAINST THE CLOUD WITH THE SPEED OF LOCAL DEVELOPMENT





Incremental builds

Build only the parts of your code that have changed



AWS SAM sync

Quickly sync code changes with the cloud



Aggregated feedback

Tail application logs that include output from all resources in a single command

https://s12d.com/accelerate



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Code vs. configuration

Beta

Code

- Lambda function code
- Lambda Layer code
- Step Functions Amazon States Language (ASL)
- API Gateway OpenAPI

Configuration

- Everything else



aws

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Incremental builds using ‘sam build’

Beta

app.py

```
import json

def handler(event, context):
    return {
        "statusCode": 200,
        "body": json.dumps({"message": "hello world!"}),
    }
```

requirements.txt

```
Boto3
requests
```





Currently: Everything is updated and built

aws

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Incremental builds using ‘sam build’

Beta

app.py

```
import json

def handler(event, context):
    return {
        "statusCode": 200,
        "body": json.dumps({"message": ”Howdy!"}),
    }
```

requirements.txt

```
Boto3
requests
```





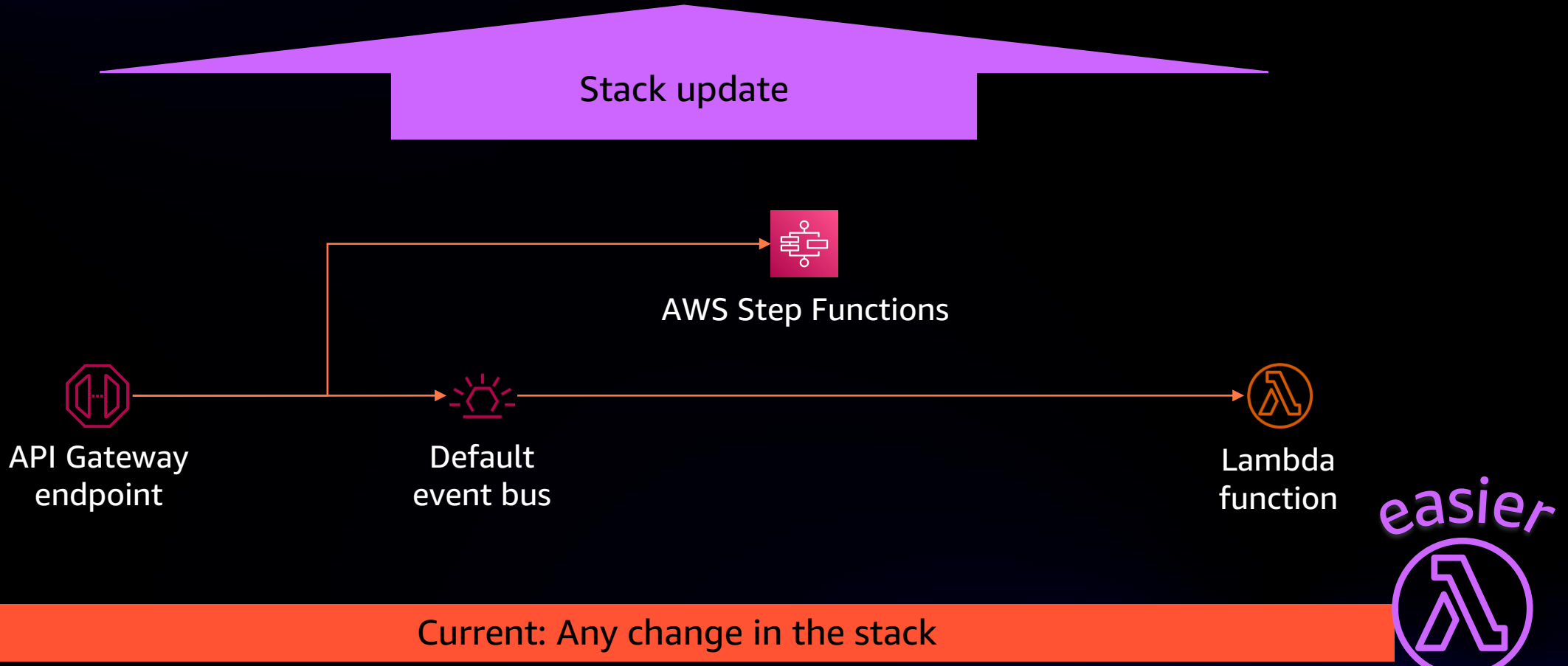
Incremental builds: only the changed code is built

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AWS SAM sync

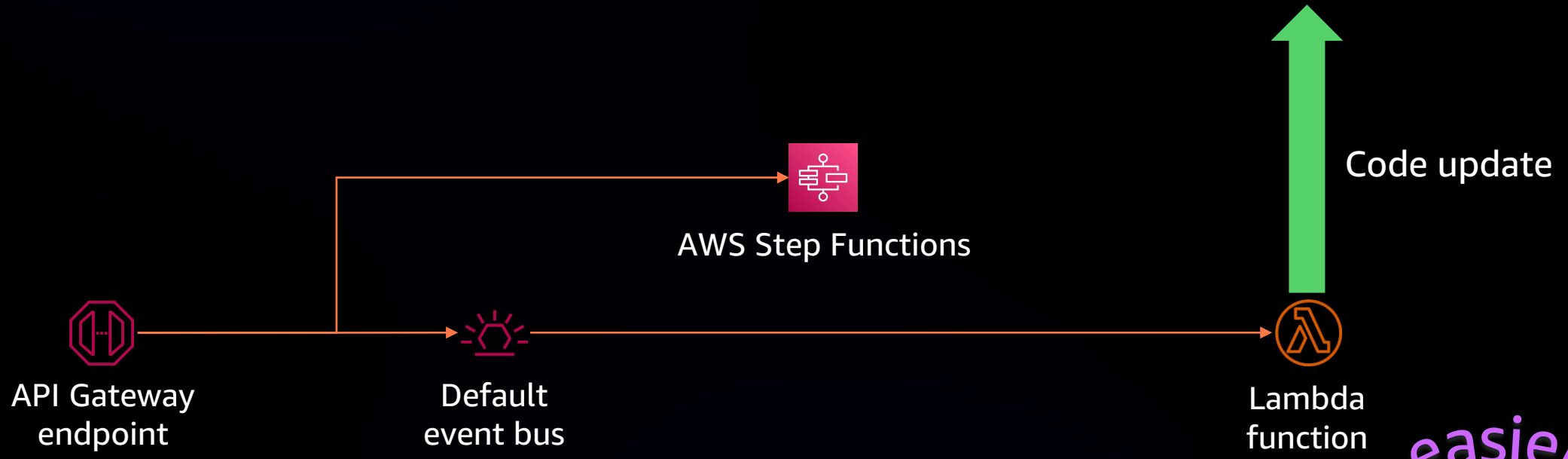
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AWS SAM sync --watch

Beta



Example: A change to the Lambda function code

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Aggregated feedback to developers

Beta



Amazon CloudWatch



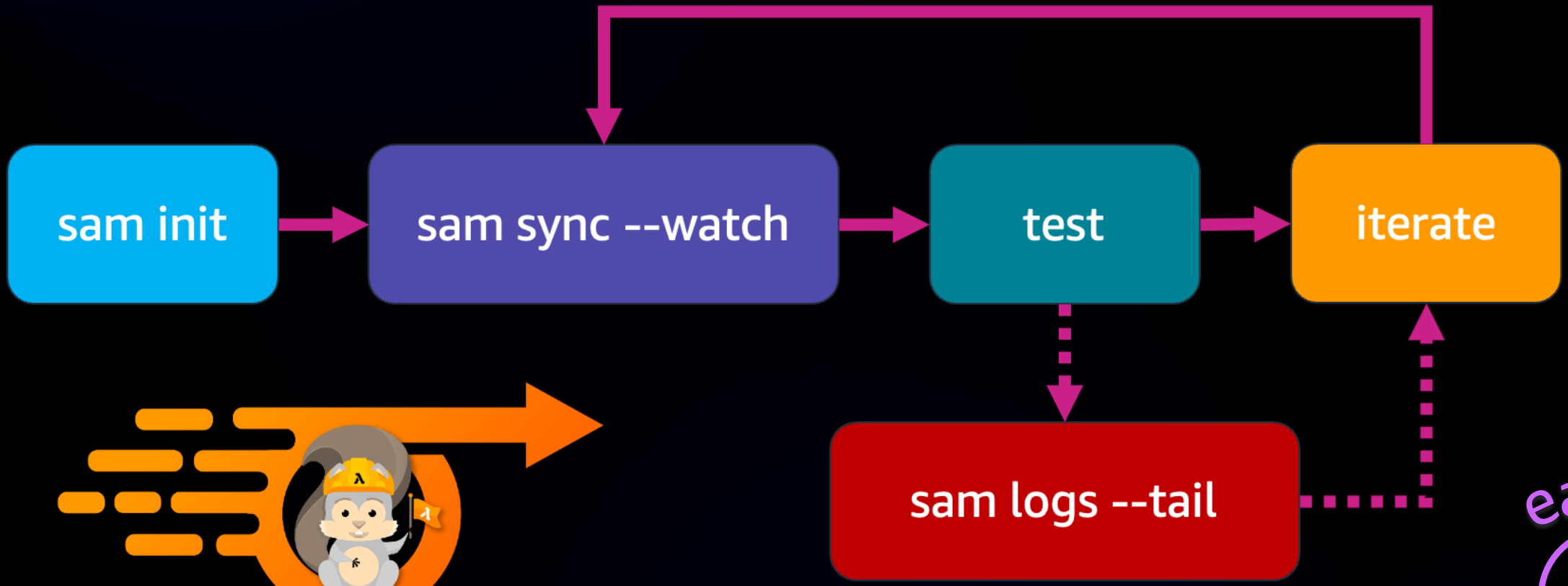
AWS X-Ray





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Testing your application with sam accelerate





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AWS SAM Pipelines

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AWS SAM Pipelines

AUTOMATICALLY GENERATE DEPLOYMENT PIPELINES FOR SERVERLESS APPLICATIONS

- Deployment pipeline – automated sequence of steps that happen when you release a new version of an application
- Supports AWS multi-account and multi-Region deployments
- Supports:
    - AWS CodePipeline
    - GitHub actions
    - JenkinsCI
    - GitLab
    - Custom pipeline



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AWS SAM Pipelines

AUTOMATICALLY GENERATE DEPLOYMENT PIPELINES FOR SERVERLESS APPLICATIONS

```
sam pipeline bootstrap
//creates all of the environment resources,
permissions, authentication

sam pipeline init
//creates the pipeline file for your CI/CD system

sam pipeline init --bootstrap
//entire bootstrap and initialization process
```



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AWS SAM delete

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AWS SAM delete

DELETES THE SAM STACK AND ALL ITS RESOURCES

- Deletes zip artifacts from the AWS managed Amazon S3 bucket associated with this stack
- Deletes Amazon Elastic Container Repository (Amazon ECR) images and repositories associated with this stack



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serverlesspresso

A re:Invent coffee bar built on serverless technologies by the serverless DA team

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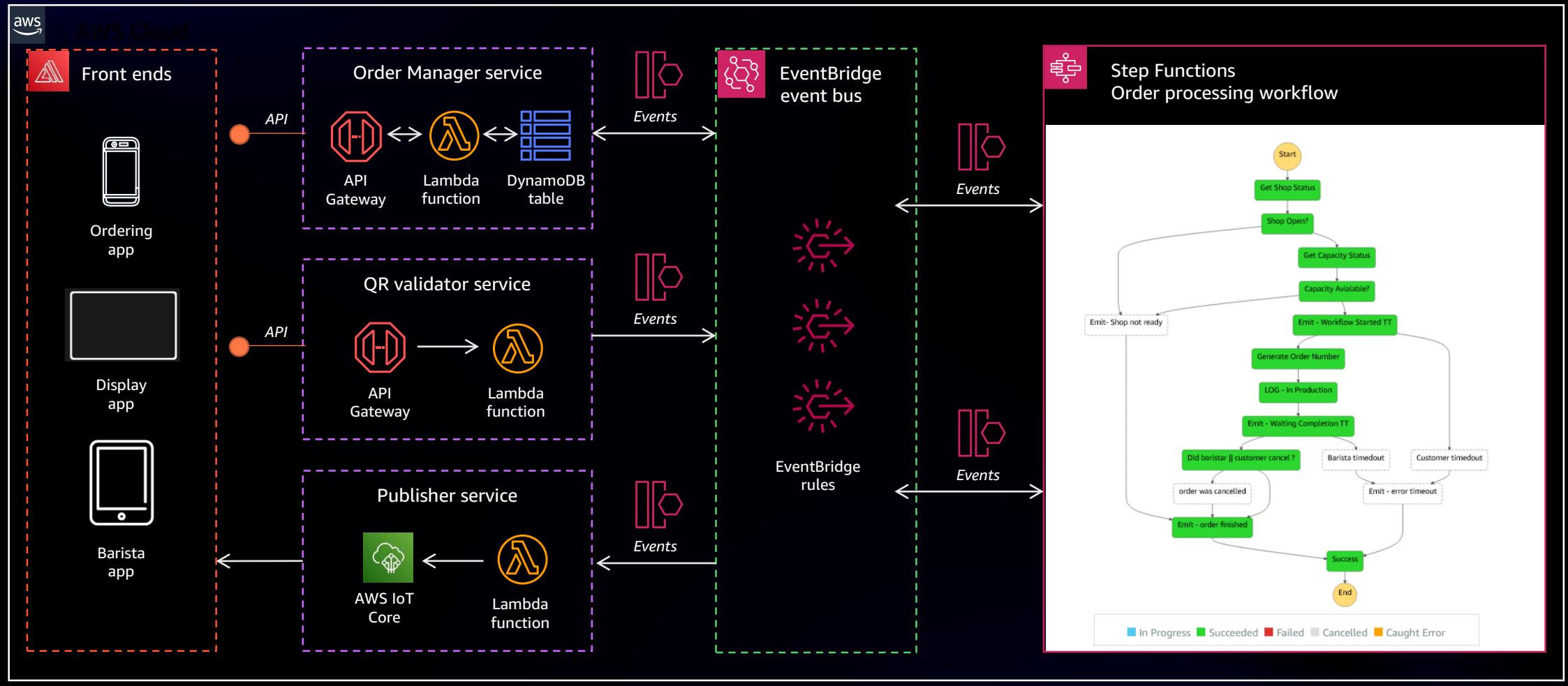
Dev lounge at the Venetian

Tuesday **10 a.m. – 6 p.m.**
Wednesday **10 a.m. – 6 p.m.**
Thursday **10 a.m. – 4 p.m.**

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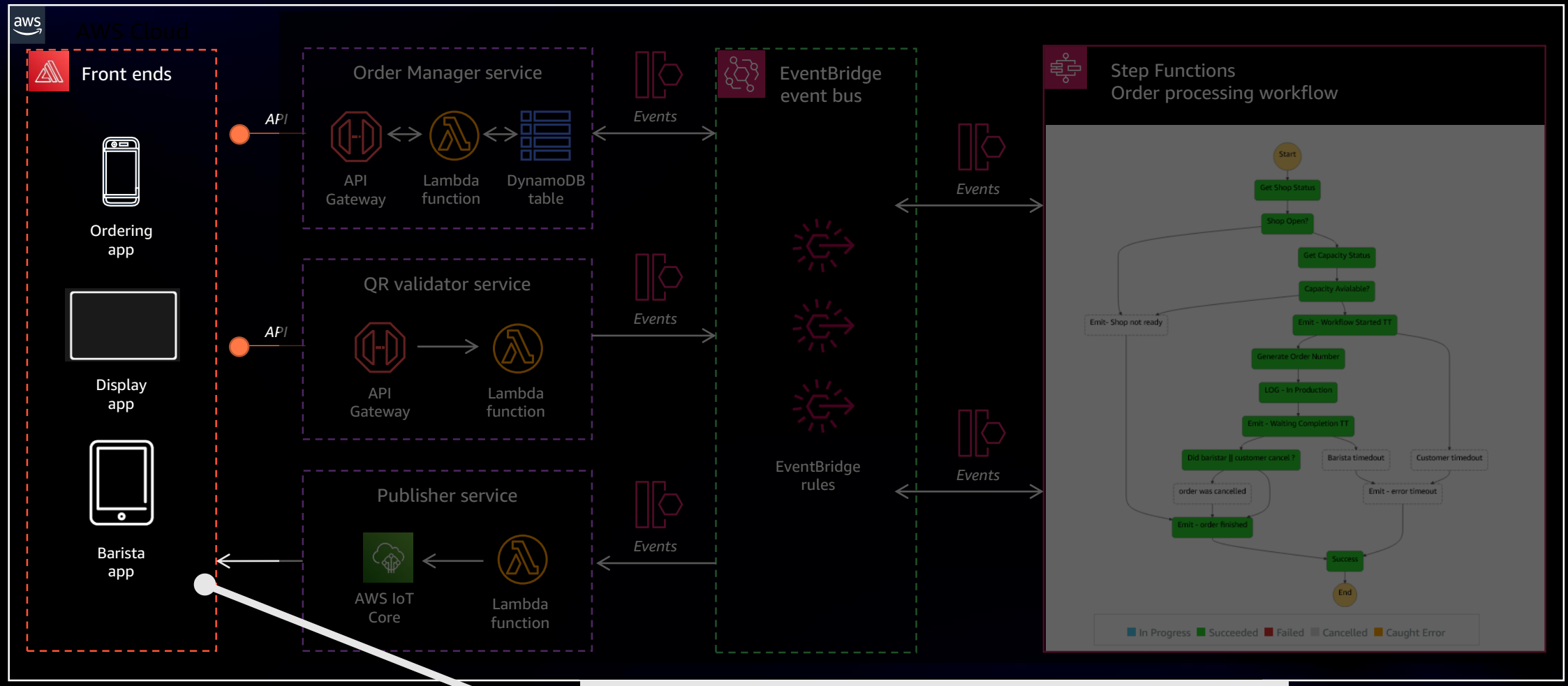
How it works



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How it works

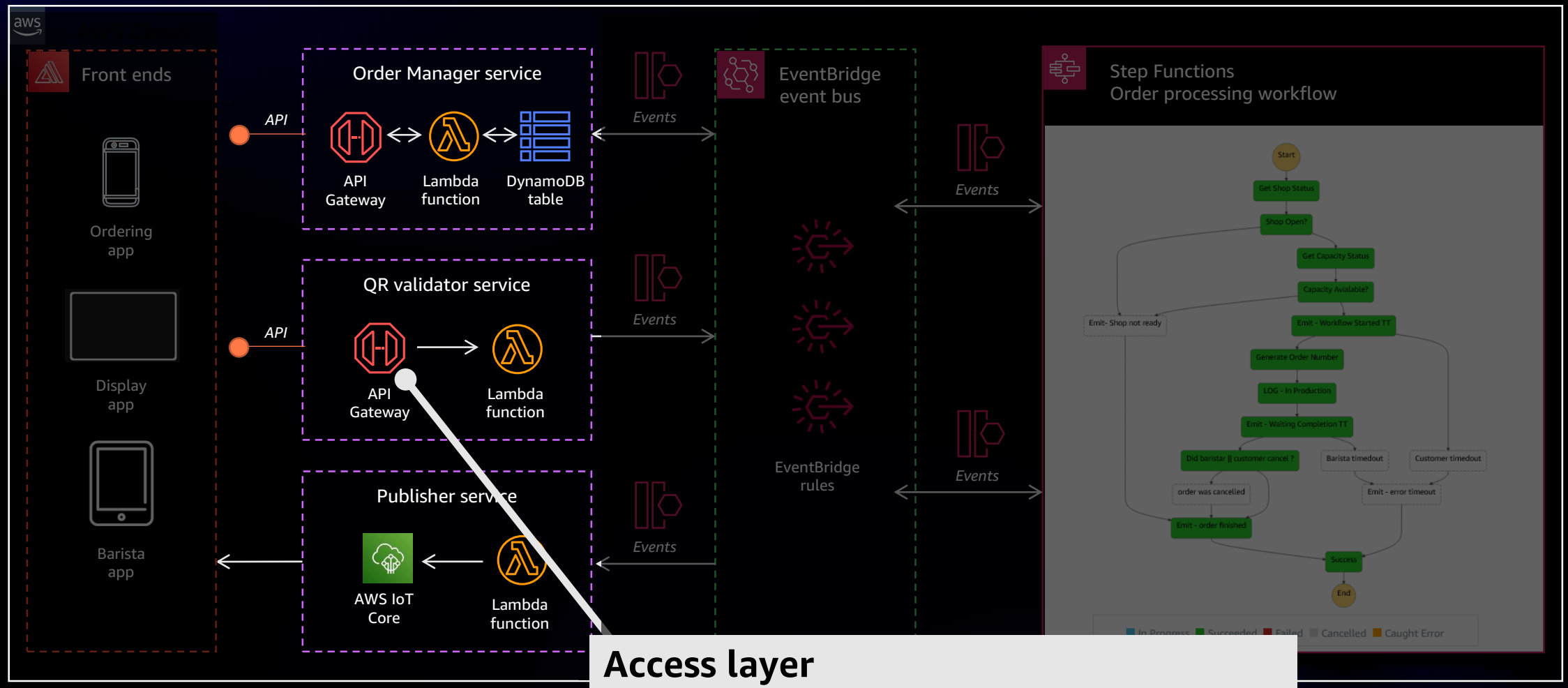


Front ends
3 web apps hosted on Amazon S3

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How it works

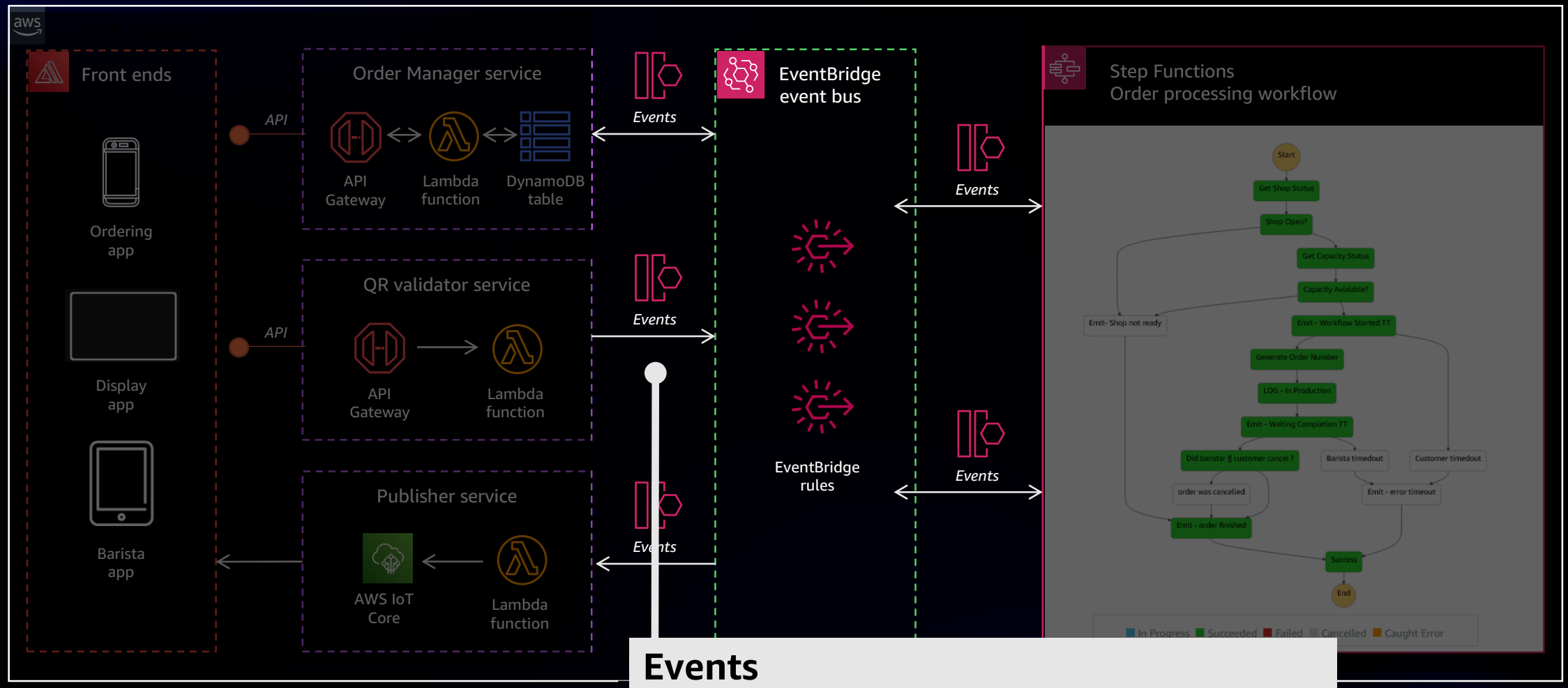


Access layer
APIs provide access to business logic

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How it works

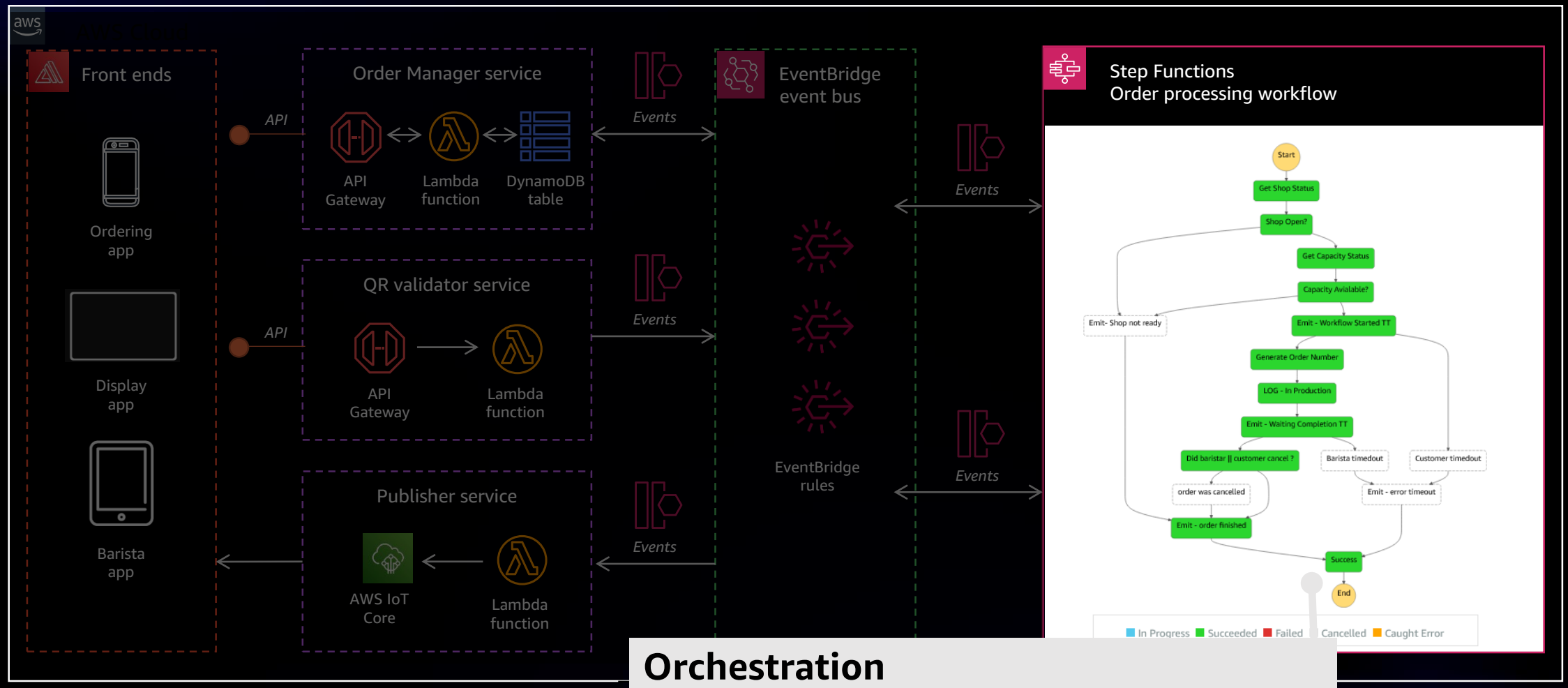


Events
Serverless event bus delivers messages about the state of each order

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How it works

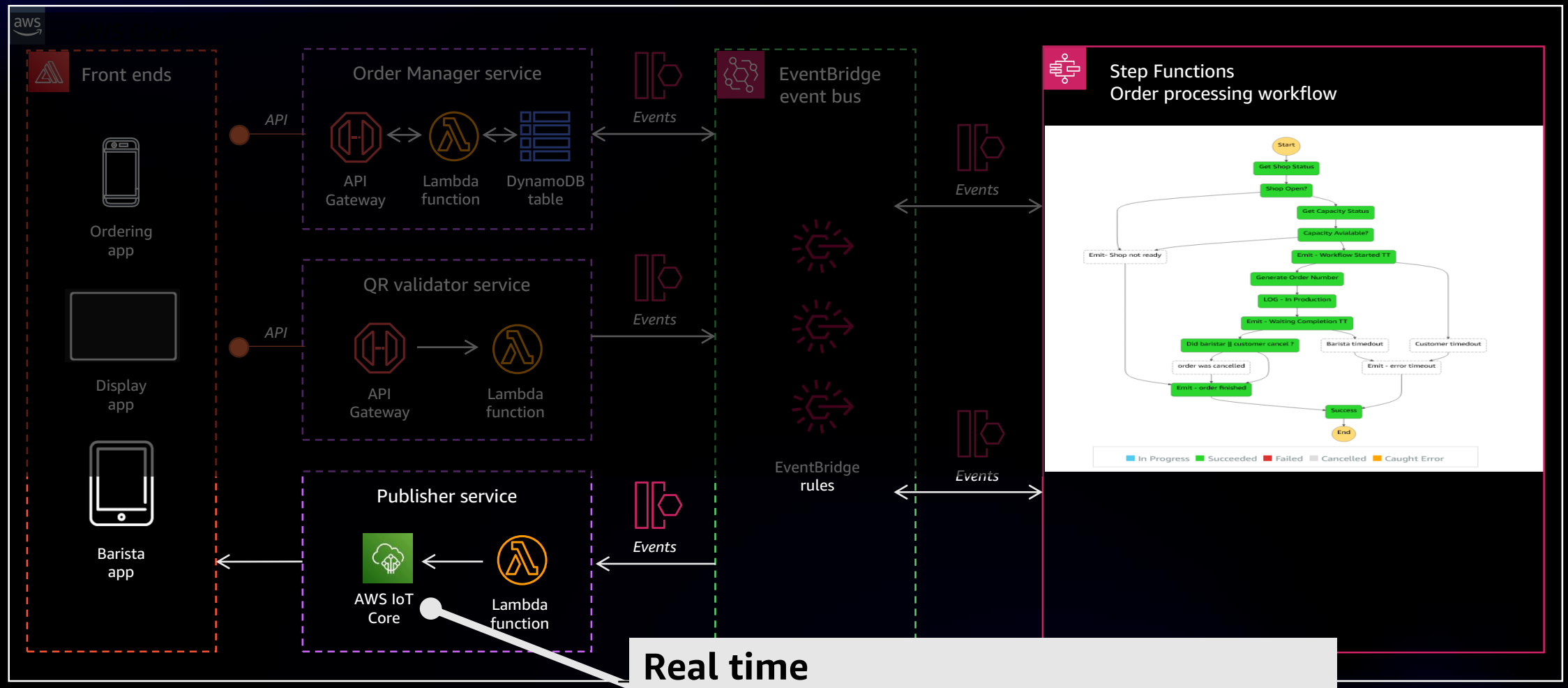


Orchestration
AWS Step Functions orchestrates each order from start to completion

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How it works



Real time
IoT topic updates web front ends

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Submit a pattern

Use serverless patterns to quickly build integrations usin

Filter by pattern and copy the template directly into your application.

Filters (44 templates) Reset

Services

- Amazon API Gateway
- Amazon CloudFront
- Amazon Cognito
- Amazon DynamoDB
- Amazon EventBridge
- Amazon Kinesis
- AWS Lambda
- Amazon S3



API Gateway REST API to DynamoDB

Create an Amazon API Gateway REST API that integrates with an Amazon DynamoDB table.

SAM View pattern



Amazon API Gateway to AWS Lambda

Create an Amazon API Gateway to AWS Lambda REST API

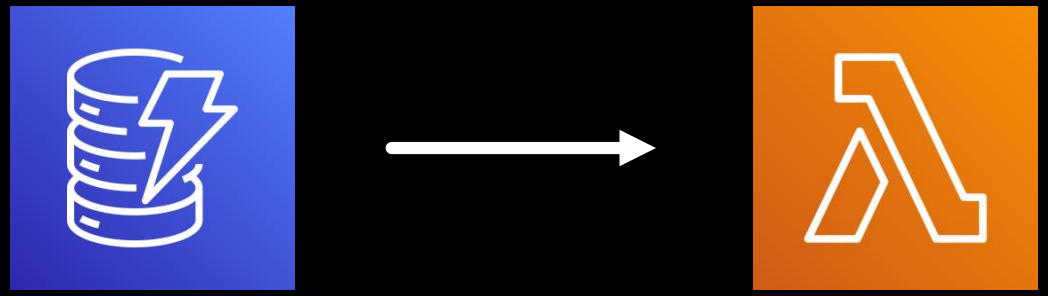
CDK View pattern

Serverless patterns collection

A NEW REPOSITORY OF SERVERLESS EXAMPLES BUILT WITH AWS SAM OR AWS CDK

Demo:

1. Choose the AWS services
2. Clone the repo
3. Deploy the stack
4. Test your application





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Serverless Patterns Collection

Submit a pattern

Use serverless patterns to quickly build integrations using AWS SAM and CDK templates.
Filter by pattern and copy the template directly into your application.

Filters (57 templates) Reset

Services

- [ ] Amazon API Gateway
- [ ] AWS AppSync
- [ ] Amazon CloudFront
- [ ] Amazon Cognito
- [ ] Amazon DynamoDB
- [ ] Amazon EventBridge
- [ ] Amazon Kinesis
- [ ] AWS Lambda
- [ ] Amazon S3
- [ ] AWS Step Functions
- [ ] Amazon SNS
- [ ] Amazon SQS

Type

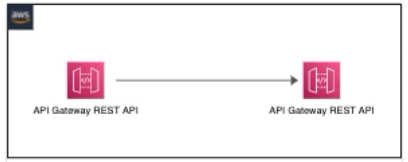
- [ ] CDK
- [ ] SAM



API Gateway HTTP API to Amazon EventBridge

Create an HTTP API endpoint that directly integrates with Amazon EventBridge

SAM View pattern



API Gateway REST to API Gateway REST

Create a primary API that centralizes configuration and securely proxies sub API endpoints.

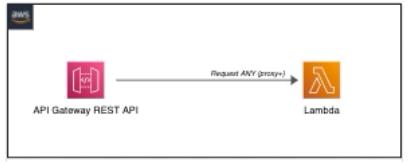
SAM View pattern



API Gateway REST API to DynamoDB

Create an Amazon API Gateway REST API that integrates with an Amazon DynamoDB table.

SAM View pattern

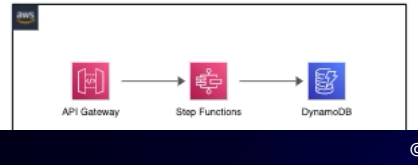


Amazon API Gateway to AWS Lambda

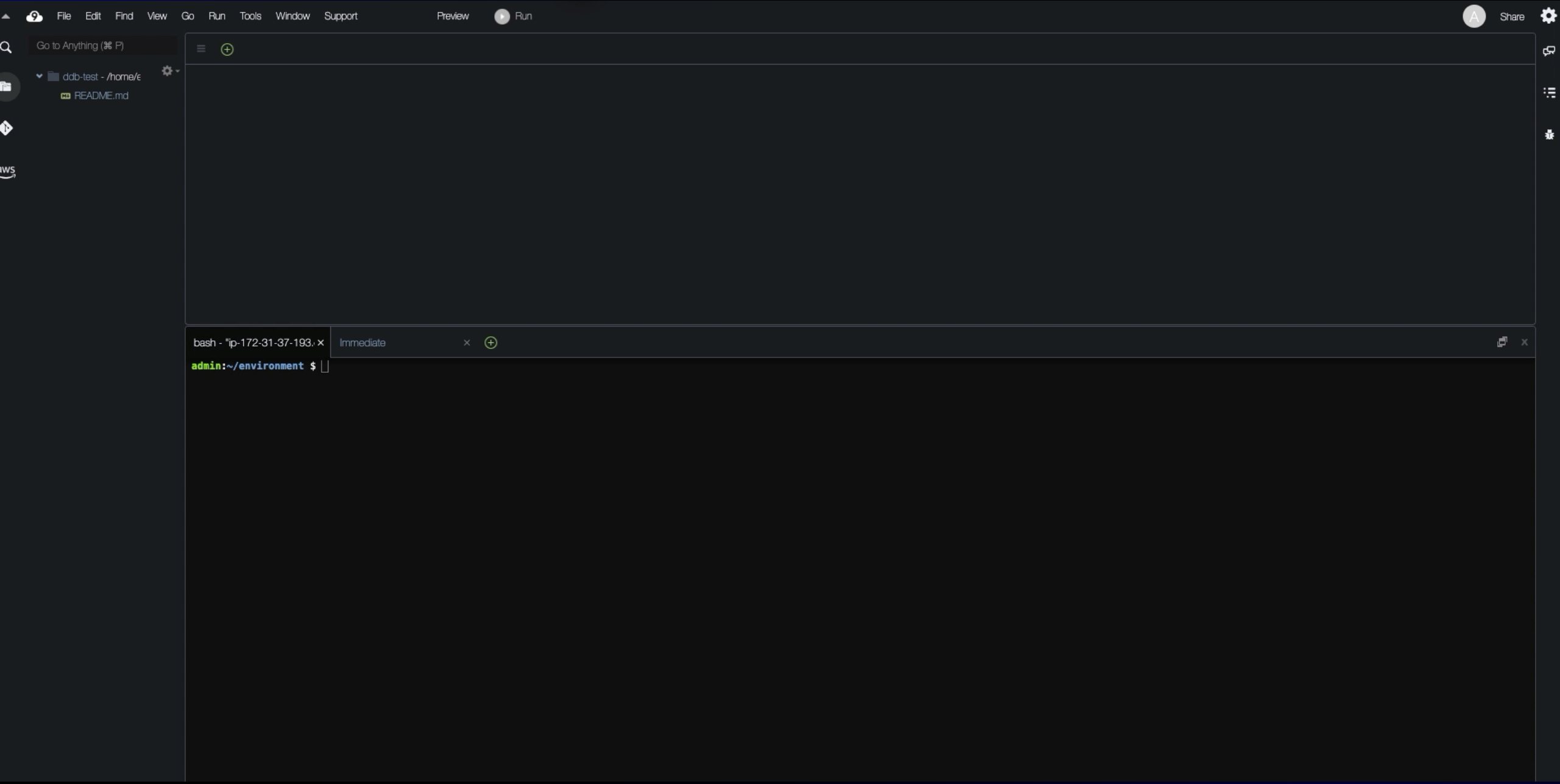
Create an Amazon API Gateway to AWS Lambda REST API

CDK View pattern





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AWS Management Console

AWS services

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- AWS AppSync
- Simple Notification Service
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- IAM
- DynamoDB
- Step Functions
- CloudWatch
- VPC
- S3

▶ All services

Build a solution

Get started with simple wizards and automated workflows.

Launch a virtual machine
With EC2
2-3 minutes



Build a web app
With Elastic Beanstalk
6 minutes



Build using virtual servers
With Lightsail
1-2 minutes



Register a domain
With Route 53
3 minutes



Connect an IoT device
With AWS IoT
5 minutes



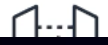
Start migrating to AWS
With AWS MGN
1-2 minutes



Start a development project
With CodeStar
5 minutes



Deploy a serverless microservice
With Lambda, API Gateway
2 minutes



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ICYMI: Serverless Q3 2021

by James Beswick | on 01 OCT 2021 | in Amazon API Gateway, Amazon DynamoDB, Amazon EventBridge, AWS Amplify, AWS Lambda, AWS Step Functions, Graviton, Serverless | Permalink | Comments | Share

Welcome to the 15th edition of the AWS Serverless ICYMI (in case you missed it) quarterly recap. Every quarter, we share all of the most recent product launches, feature enhancements, blog posts, webinars, Twitch live streams, and other interesting things that you might have missed!

July						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24

August						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

September						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
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19	20	21	22	23	24	25



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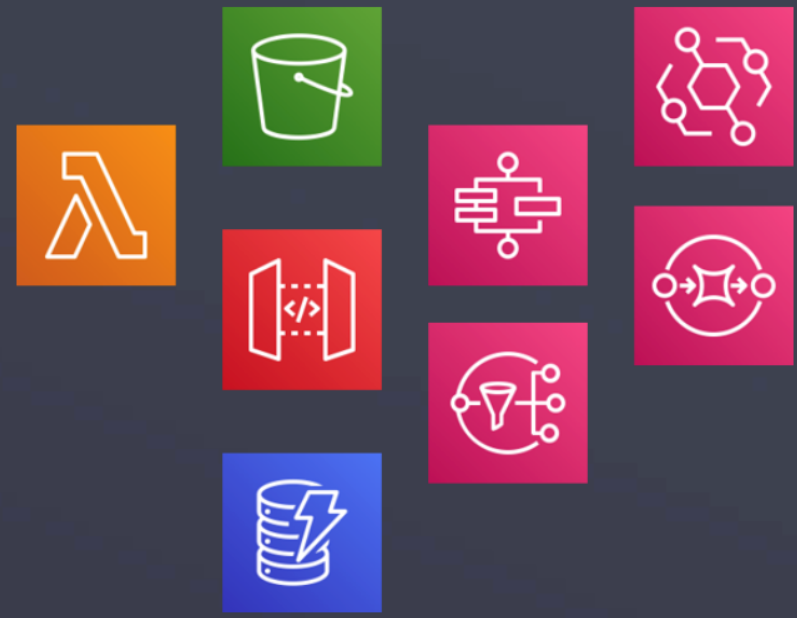
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Thank you!

Talia Nassi

 @talia_nassi

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