

20 October, 2022



Serverless without Lambda Also known as: Functionless

Adriaan de Jonge

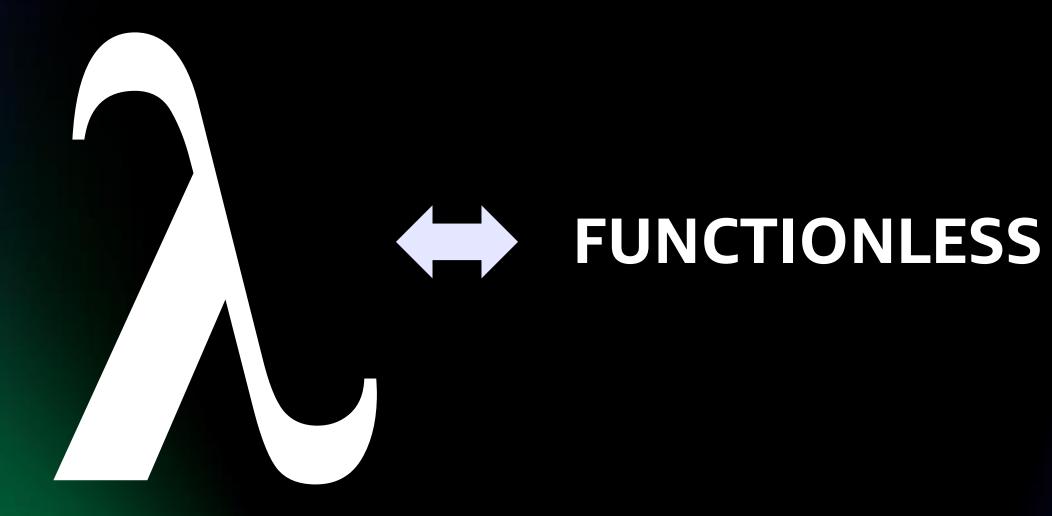
Senior Solutions Architect, Digital Native Business Amazon Web Services



Agenda

- Why work without AWS Lambda?
- Introduction example use case
- Amazon API Gateway without AWS Lambda
- Direct service integrations from AWS Step Functions
- Connecting Amazon EventBridge with other services







Use Case: ...

~370 million people worldwide own a cat

Source: Statista 2018



Use Case: Newsletter

CATS NEWS

THE LATEST SCOOP FOR CAT OWNERS

Will local governments impose

tax on cat owners?

Tax-paying dog owners demand justice!

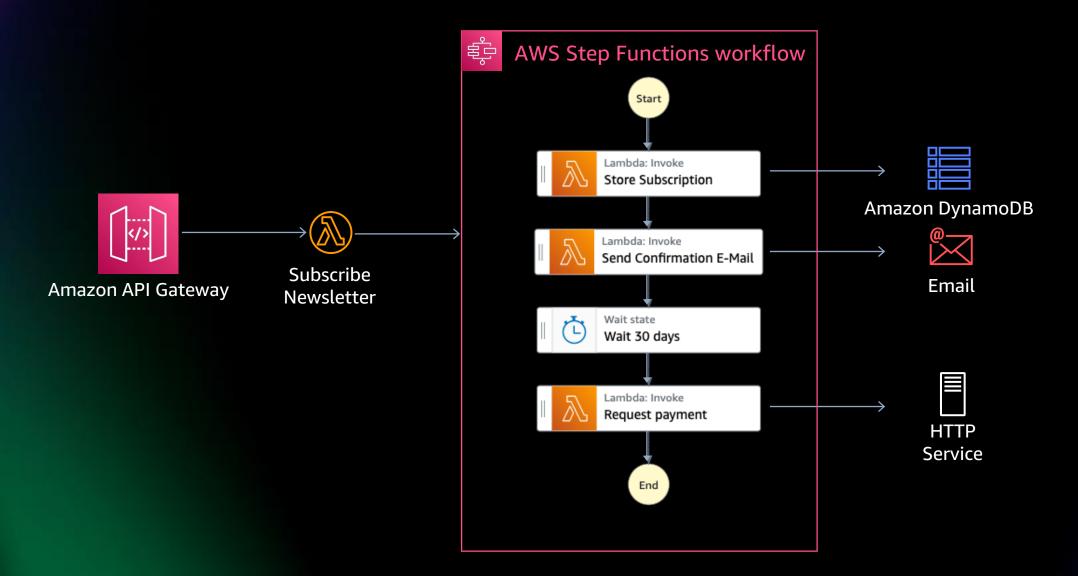
ANYTOWN 20 October 2022 – A group of activist dog owners is asking the local government to impose a tax on cat owners. Why do dog owners need to bear the burden of tax while cat owners pay absolutely nothing?



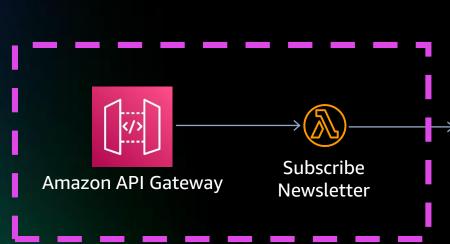
Cat owners are furious about the proposal! John Doe, owner of 2 cats said that taxing cat owners discourages cat ownership and predicts plagues of mice in the city. Moreover, Doe argued that the burden of cats on society is negligible compared to dogs.

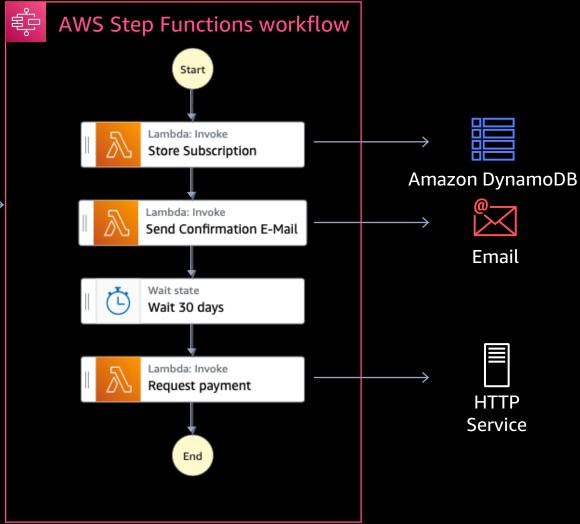
Dog owners on the other hand explain that dogs these days are not that much of a burden either. Jane Doe, owner of a Golden Retriever reported that her dog also once caught a mouse and argued it is unfair if cat owners don't bear the same tax burden as dog owners.





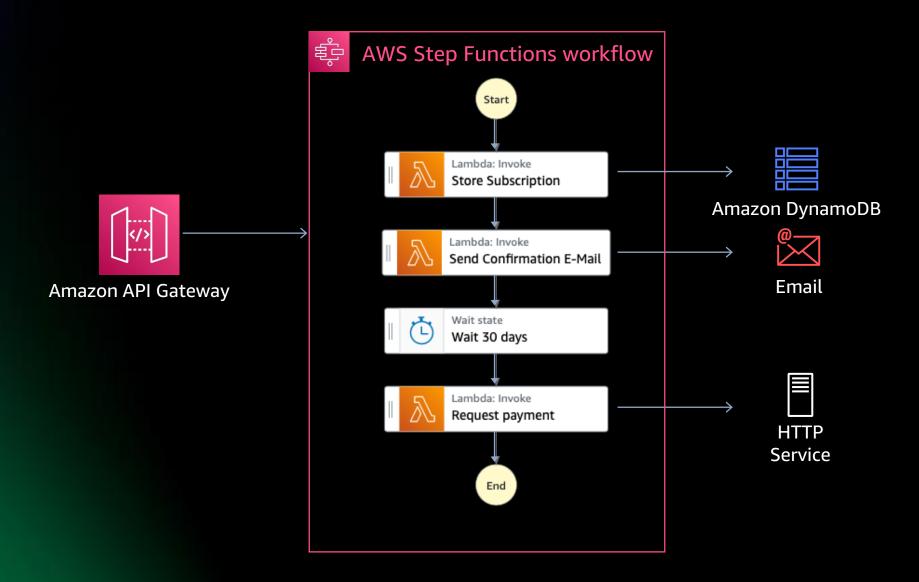




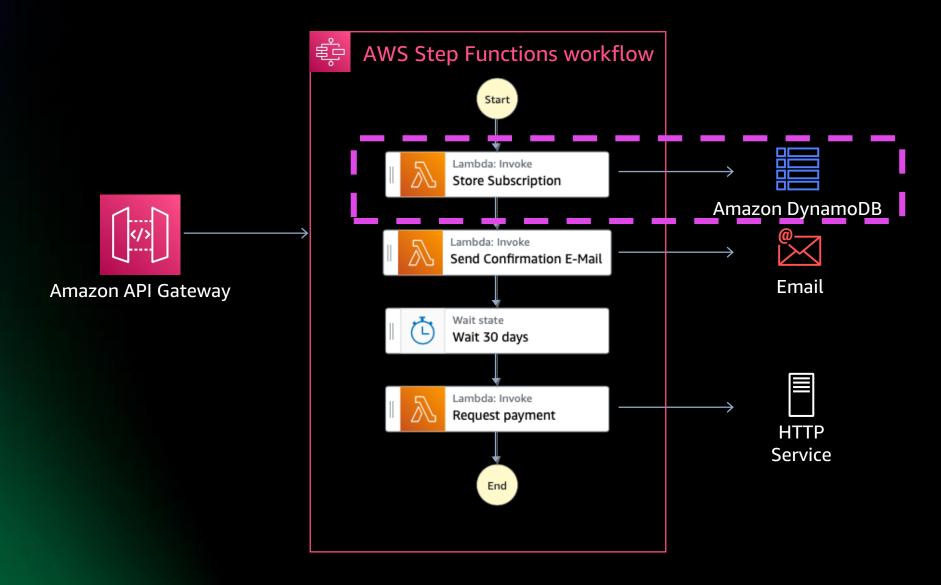






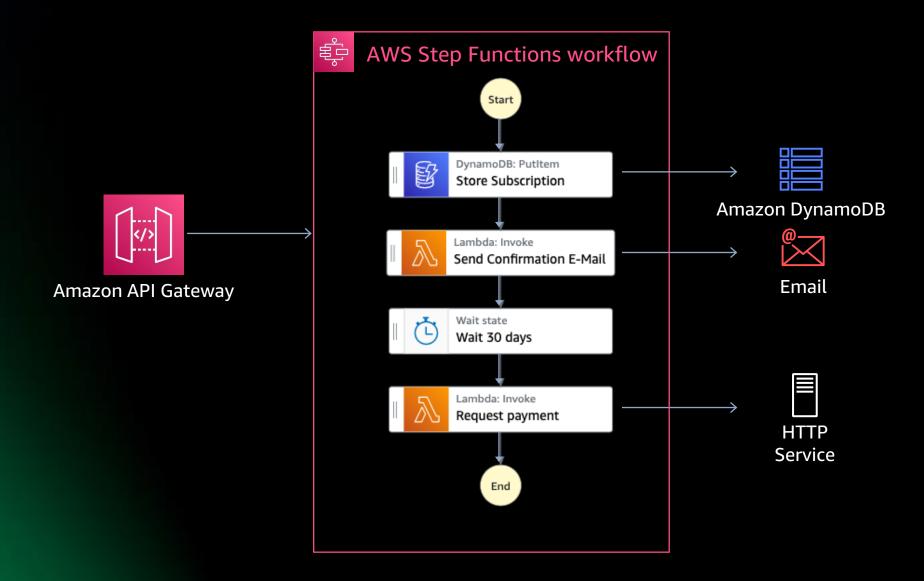




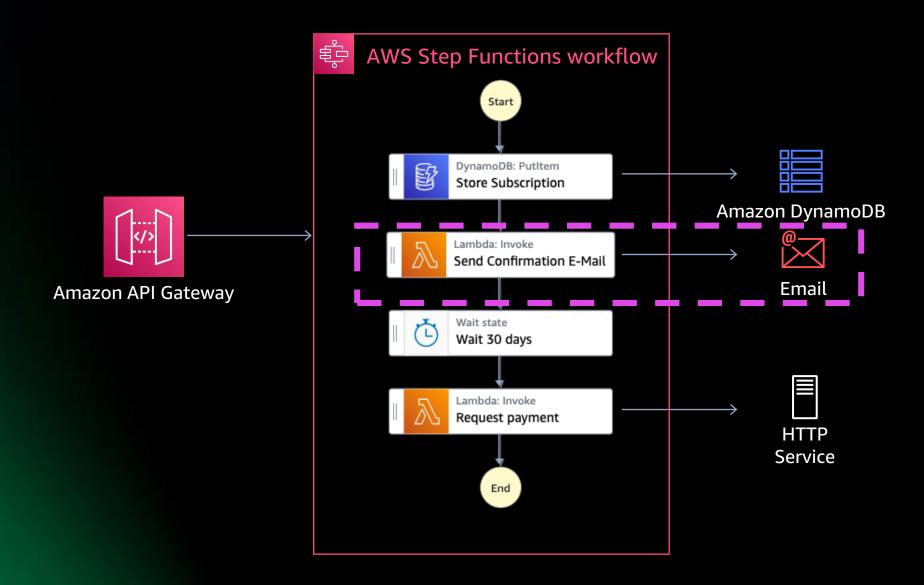






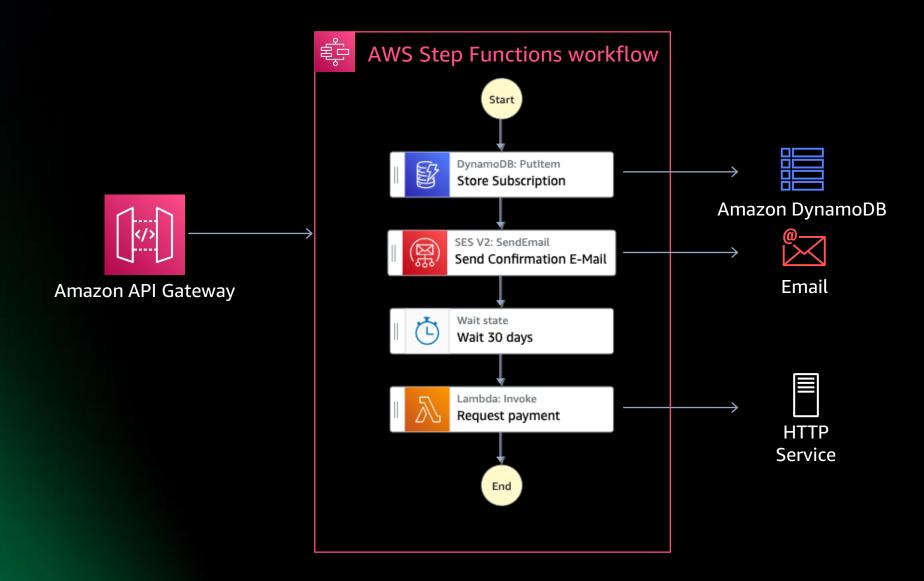




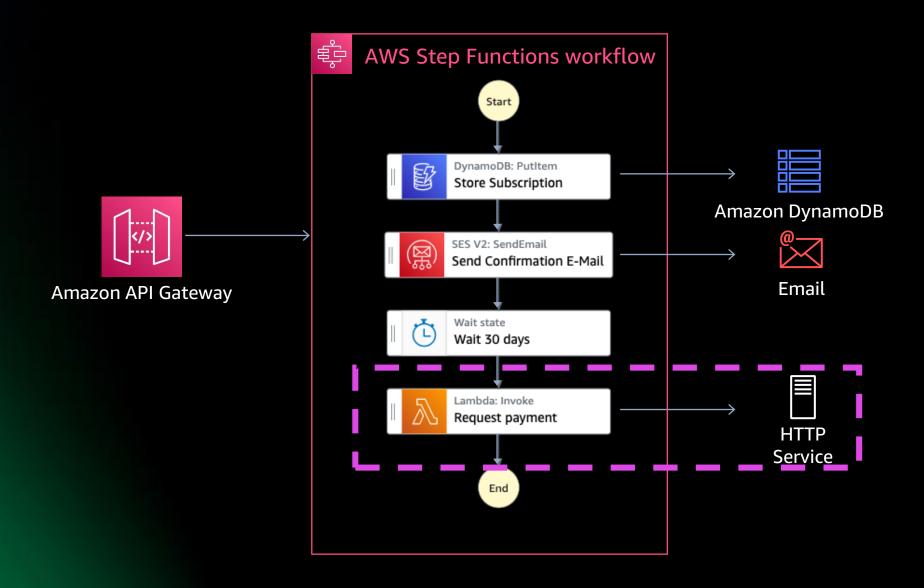






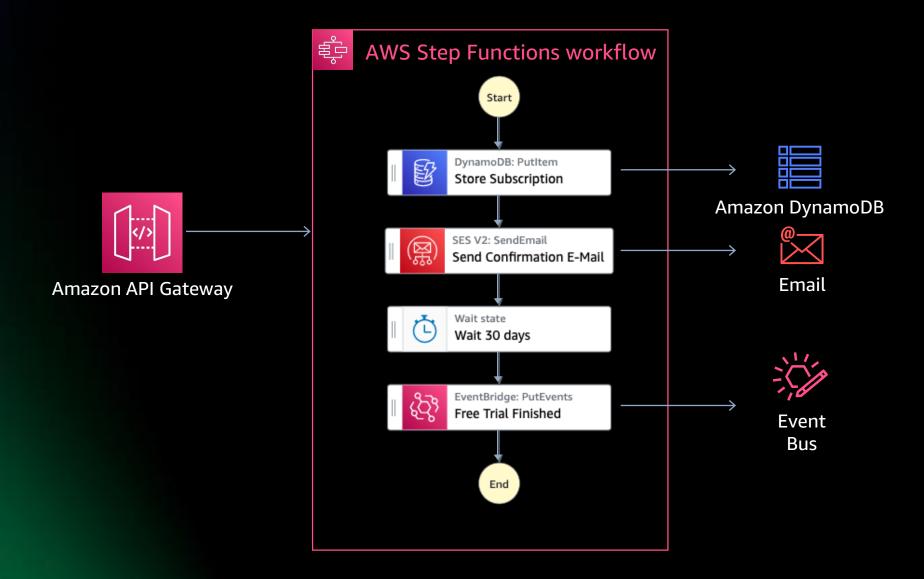






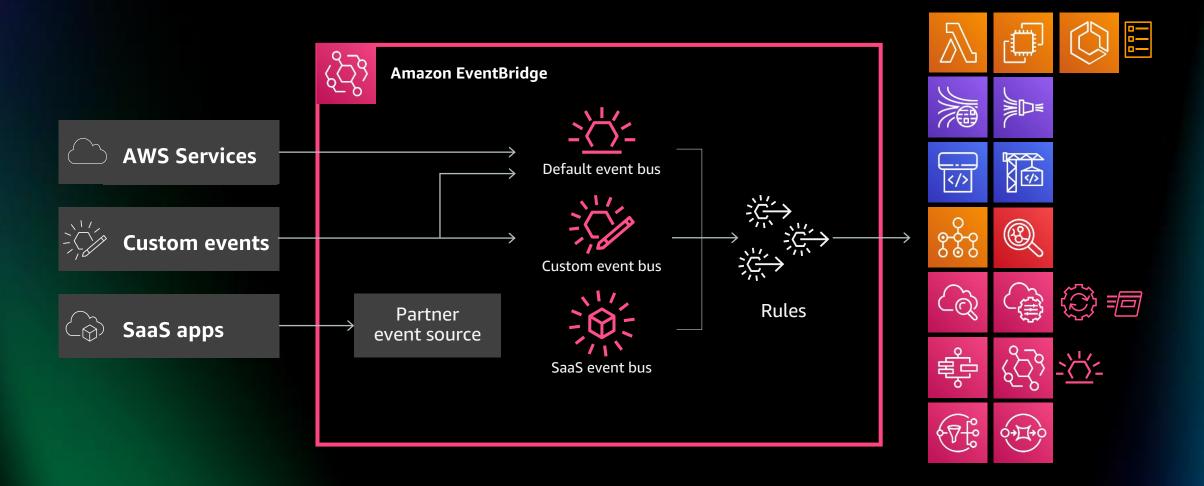




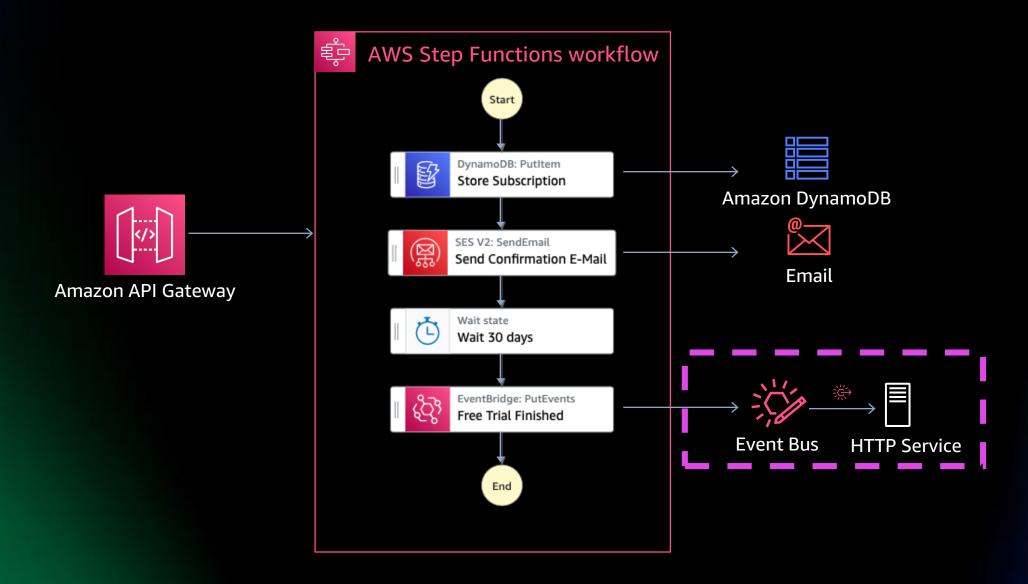




Amazon EventBridge Architecture

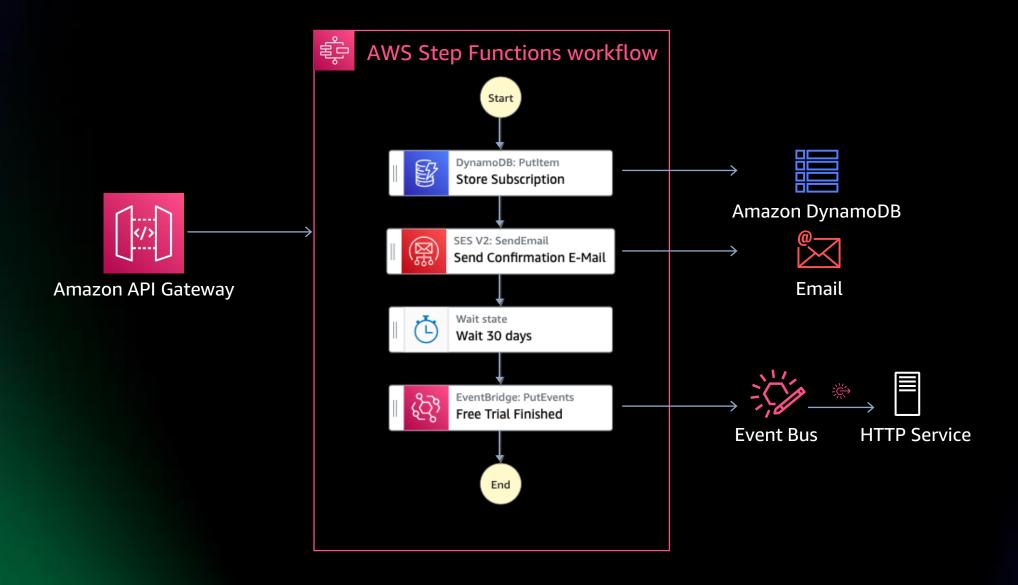














AWS Cloud Development Kit





Familiar Your language Just classes and methods



Tool Support
AutoComplete
Inline documentation



Abstraction
Sane defaults
Reusable classes

```
class UrlShortener extends Stack {
 constructor(scope: App, id: string, props?: UrlShortenerProps) {
    super(scope, id, props);
    const vpc = new ec2.Vpc(this, 'vpc', { maxAzs: 2 });
    const cluster = new ecs.Cluster(this, 'cluster', { vpc: vpc });
    const service = new patterns.NetworkLoadBalancedFargateService(this, 'sample-app', {
     cluster,
     taskImageOptions: {
        image: ecs.ContainerImage.fromAsset('ping'),
     },
      dom
        ⊘ domainName
                                                  (property) patterns.NetworkLoadBala \times
          ⊘ domainZone
                                                  ncedServiceBaseProps.domainName?: s
                                                  tring | undefined
    const scaling = service.service.autoScaleTasl
    scaling.scaleOnCpuUtilization('CpuScaling',
                                                  The domain name for the service, e.g.
     targetUtilizationPercent: 50,
                                                  "api.example.com."
     scaleInCooldown: Duration.seconds(60),
                                                  @default
     scaleOutCooldown: Duration.seconds(60)
    });
                                                    No domain name.
```













Resources

- Amazon API Gateway: Working with models and mapping templates
- AWS Step Functions: Optimized integrations
- AWS Step Functions: AWS SDK service integrations
- AWS Step Functions: Intrinsic functions
- Amazon EventBridge: API destinations



Visit the Modern Applications Resource Hub

Dive deeper with these resources to help you develop an effective plan for your modernization journey.

- Build modern applications on AWS
- Business value of cloud modernization
- An introduction to event-driven architectures
- Accelerate full-stack web and mobile app development
- Determining the total cost of ownership: Comparing serverless and serverbased technologies
- Building event-driven architectures with AWS
- Continuous learning, continuous modernization



https://tinyurl.com/modern-apps-aws

Visit resource hub

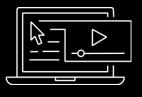


AWS Training and Certification

Get started with free digital training for you and your team today



Achieve key milestones and plan your next steps with the AWS Modern
Application skills training



Access 500+ free digital courses with AWS Skill Builder



Earn an industry-recognized credential:

<u>AWS Certified Developer – Associate</u>

<u>AWS Certified DevOps – Professional</u>



Create a self-paced learning roadmap <u>AWS ramp-up guide - Developer</u> <u>AWS ramp-up guide - DevOps</u>



Thank you for attending AWS Innovate Modern Applications Edition

We hope you found it interesting! A kind reminder to **complete the survey.**Let us know what you thought of today's event and how we can improve the event experience for you in the future.

- aws-apj-marketing@amazon.com
- twitter.com/AWSCloud
- f facebook.com/AmazonWebServices
- youtube.com/user/AmazonWebServices
- slideshare.net/AmazonWebServices
- twitch.tv/aws



Thank you!

