

Handling Asynchronous Image Resizing with Lambda and S3



Mark Richman

CLOUD ARCHITECT & STRATEGIST

@mrichman www.markrichman.com

Overview

What is Lambda?

How Lambda works

When to use Lambda and its limitations

Installing the Apex toolkit

Creating a Lambda function in Go

Deploying to AWS using Apex

Viewing logs in CloudWatch

What is Lambda?



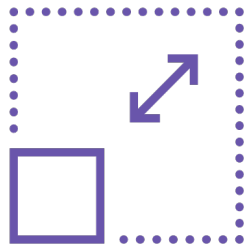
Serverless computing



Pay only for time your code executes

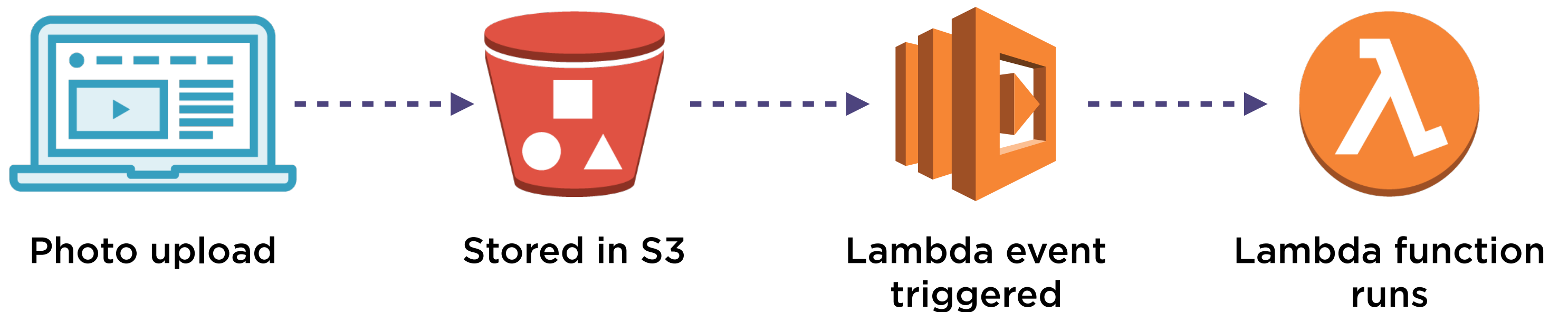


Event based

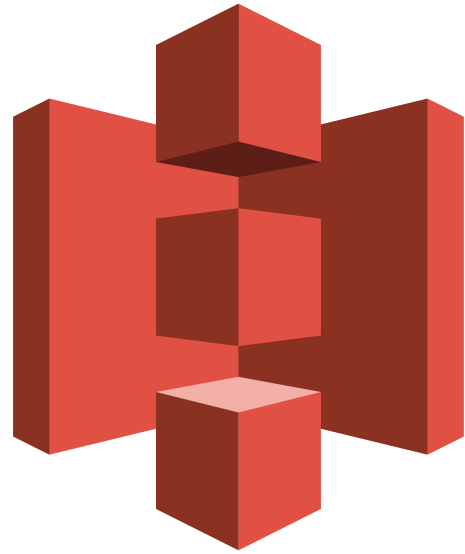


Unlimited scaling

How Lambda Works



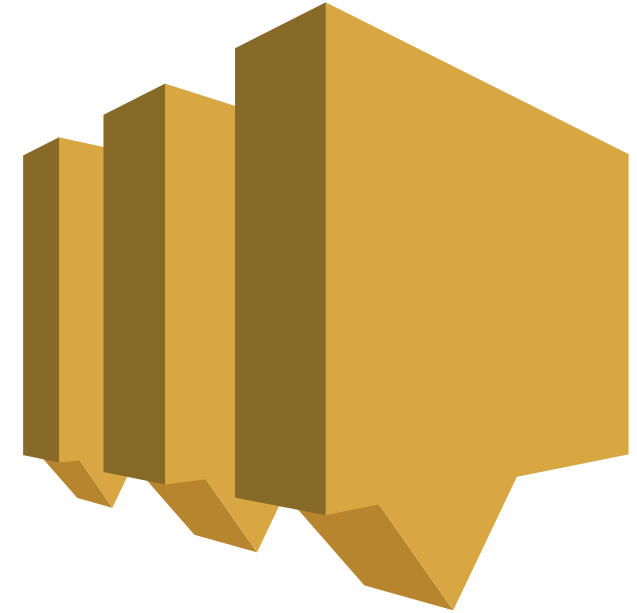
Events



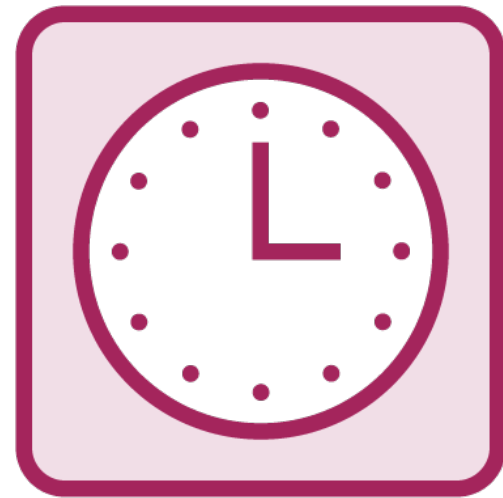
S3



DynamoDB



SNS

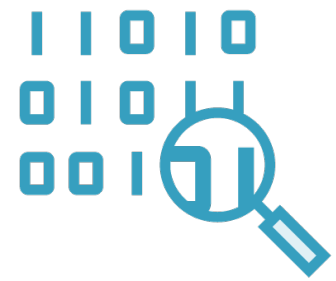


Scheduled Events



CodeCommit

Lambda Scenarios



Data processing



Application backends



Control systems

Lambda Pros

No hardware to manage

Fast execution time

Low cost

Event-driven

Multiple language support

Lambda Cons

Short execution duration

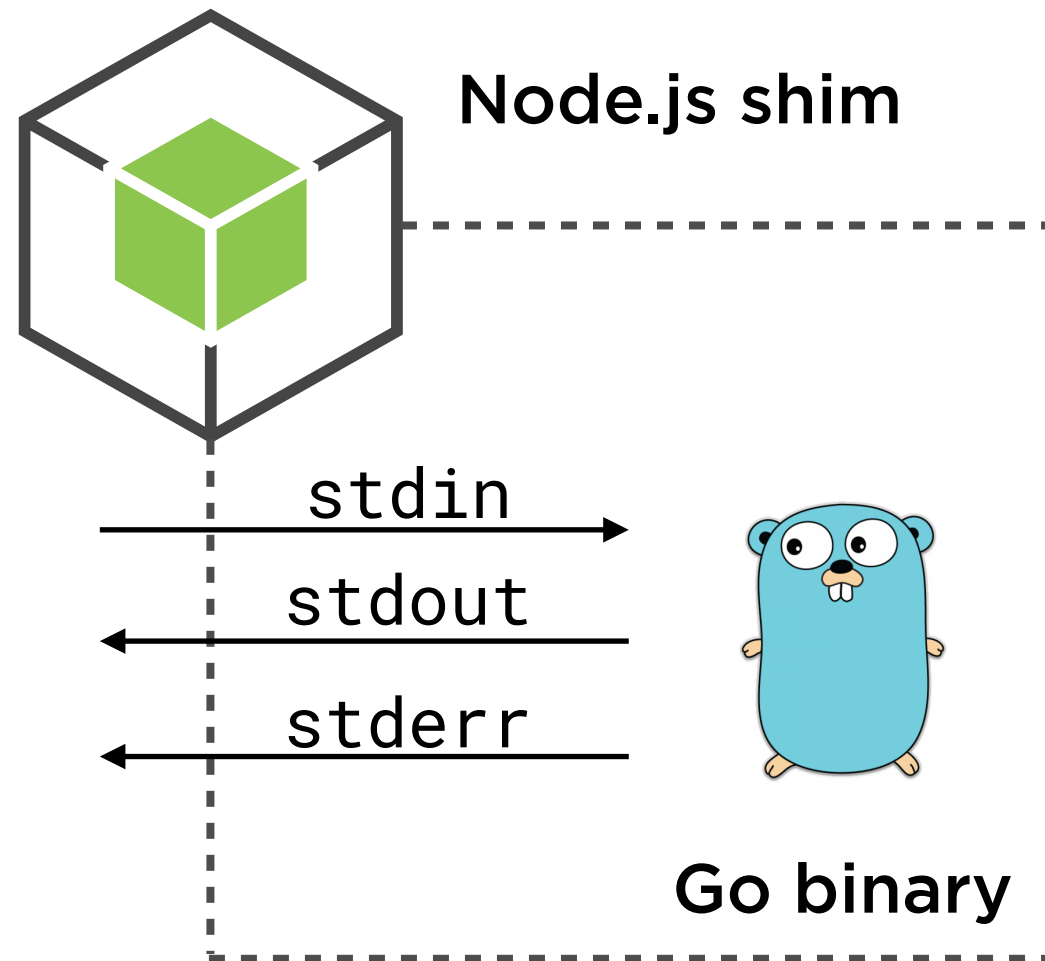
Limited resources

Stateless

Complex for more than a few functions

Lack of tooling

Using Lambda with Go



APEX
serverless architecture

<http://apex.run>

Demo

Installing the Apex Toolkit

Demo

**Creating a Lambda Function in Go with
Apex**

Summary

What is Lambda?

How Lambda works

When to use Lambda and its limitations

Installing the Apex toolkit

Creating a Lambda function in Go

Deploying to AWS using Apex

Viewing logs in CloudWatch