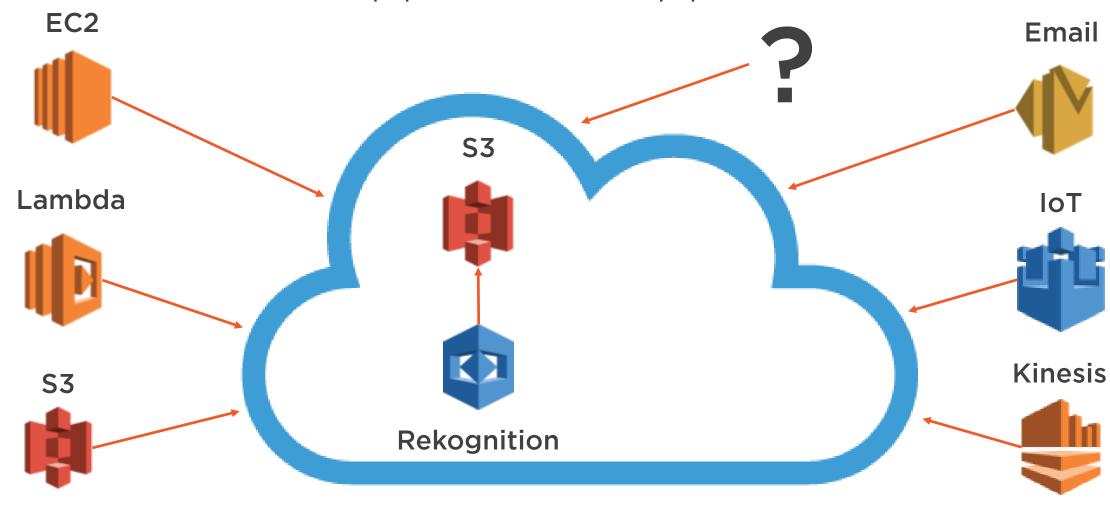
Building a Complete Rekognition Front End



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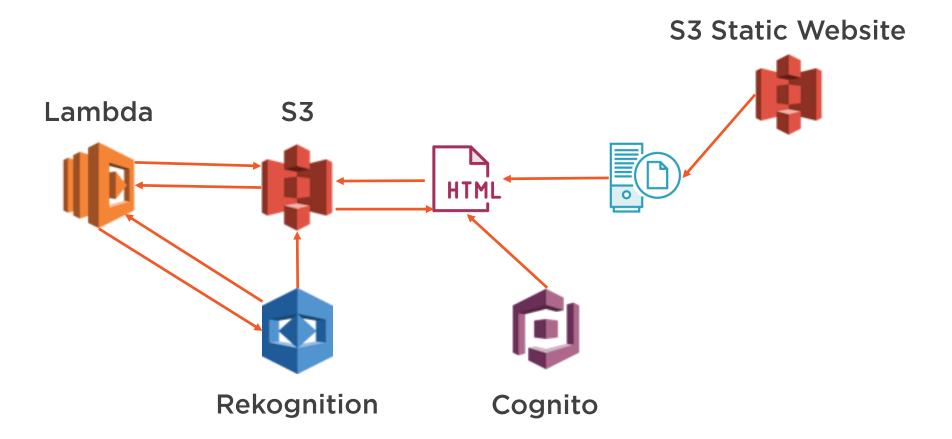


AWS Application Approaches





Application Structure



New Services and Features



Lambda microservice will call Rekognition



AWS SDK for JavaScript



Cognito federated credentials manager and user pools



S3 as a static web site host



AWS Lambda



Function as a service

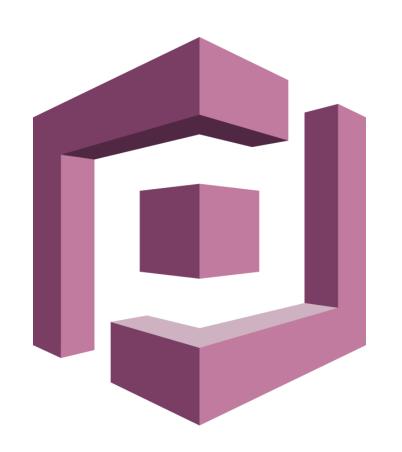
Triggered from many sources

Very low operating cost

Provides built in scalability



Cognito



Allows use of federated credentials

Create user pools with specific access



AWS SDK for JavaScript



Allows easy access from HTML
Supports direct access to S3 via Cognito





Use Lambda and JavaScript

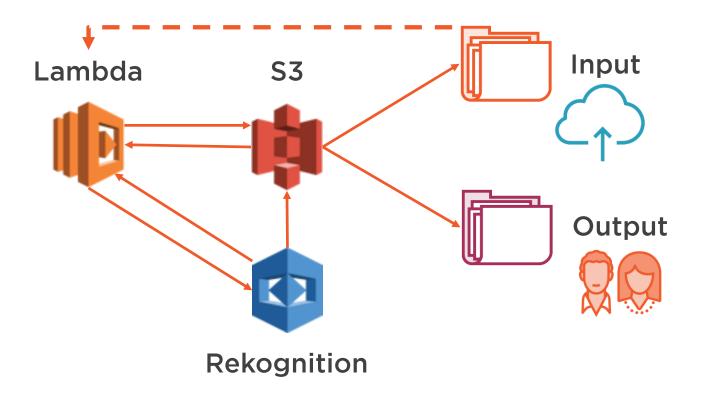
Build and test services one at a time



Building the Lambda Service



Setting Up S3 and Lambda





Create a Lambda function using a blueprint

Create Python deployment package with image library

Modify the role to allow Rekognition and S3 access

Enabled the Lambda S3 trigger

Troubleshot our problem with the CloudWatch service

Confirmed the output of our service



HTML and JavaScript Front End



HTML and JavaScript

Very easy to integrate AWS JavaScript SDK

Many development tools available

Debugging is aided by the development features in most browsers

JavaScript SDK is very similar in concept and coding to Boto3



Development Steps



Create an identity pool and apply inline policy



Setup Cross-Origin Resource Sharing (CORS) on S3 bucket



Create and test the HTML code and scripting





Setup of the identity pool and S3 CORS configuration is simple

SDK functions can be called from a browser with a few lines of code



S3 Static Web Site



S3 Static Web Site Easy to setup and low cost

Only works for static content

Can be used in conjunction with Route53 for custom URLs





Create Lambda Service
Cognito and S3 CORS

HTML and JavaScript

S3 Static Web Site Hosting

