

CDK and
SAM-local

are your
friends

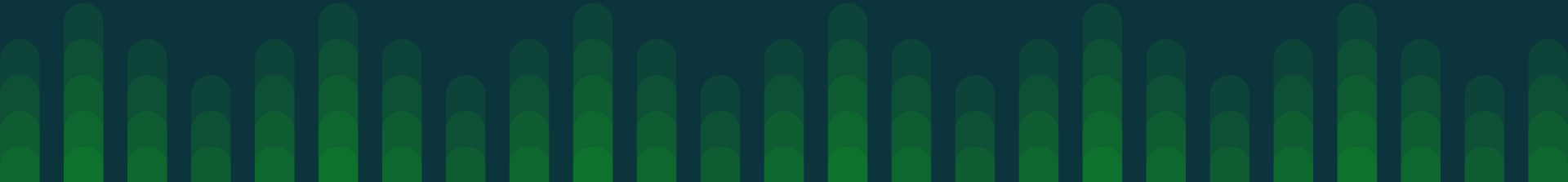


AWS SAM CLI

Serverless Application Model

+

Command Line Interface





Serverless?

“

Lambda functions, event sources, and other resources that work together to perform tasks

...

can include additional resources such as APIs, databases, and event source mappings

”



Serverless Application Model

“

- * Open Source

- * framework for building serverless applications

- * shorthand ... to express resources

- (functions, APIs, databases, and event source mappings)

- * define the application you want and model it using YAML

- * expands the SAM syntax into AWS CloudFormation

”



SAM Command Line Interface

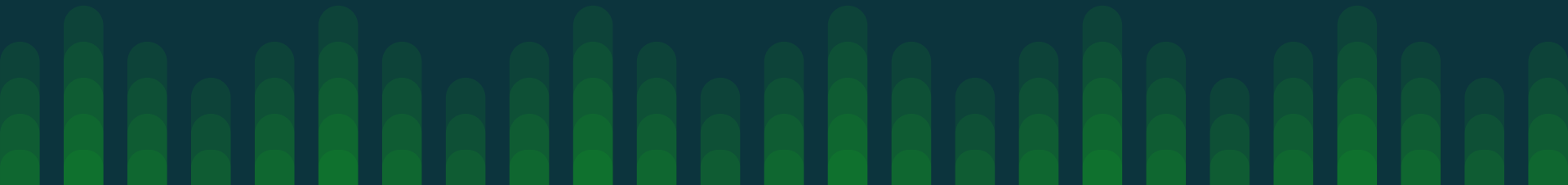
“

- * Verify templates
- * Invoke Lambda functions locally w/Docker
- * Step-through Lambda debugging
- * Package and deploy Lambda functions
- * and more

”

AWS CDK

Amazon's Open Source
Cloud Development Kit





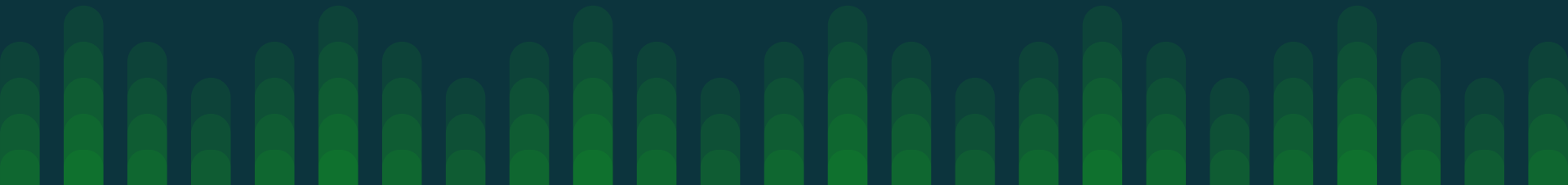
CDK Features

- * Open Source: github.com/aws/aws-cdk, responsive to issues, public roadmap
- * Typescript -> JavaScript, Python, Go, Java, C#
- * Extensible: cdktf, AWS Solution Constructs
- * Produces CloudFormation ("stack synthesis")
 - * APIs: CloudFormation Resource Specification...
 - > L1: low-level CloudFormation resources
 - > L2: high-level intent-based resource API
 - > Patterns: combine resources via Construct Library

SAM + CDK

Announced on the AWS blog

End of April 2021





Blog announcement --

"Better together: AWS SAM and AWS CDK"

“

- * AWS SAM is template-based using JSON or YAML

- * AWS CDK uses languages such as Python or Node

”

Previously: SAM to manage Lambda code and CloudFormation as separate components

Now: SAM to manage CDK code with synthesized CFN

Walkthrough

<https://github.com/oshaghnessy/cdk-sam-lambda-rest>