



Bye, YAML!

Saying goodbye to YAML engineering with cdk8s

Nate Taber – Sr. Product Manager, AWS

Eli Polonsky – Software Development Engineer, CDK

July 2020



Cloud Development Kit for Kubernetes » **cdk8s**



Go from Code to Config

Define Kubernetes applications and architectures using familiar programming languages.

Generate well-formatted YAML for your applications every time.



Cut Copy & Paste

Turn best practices into code libraries and share easily.



Run Everywhere

cdk8s runs locally and generates YAML you can deploy to any cluster, anywhere.

cdk8s workflow

Import

```
$ cdk8s import k8s@1.16.1
```

Write

```
const deployment = new k8s.Deployment(this, 'Deployment', {  
  spec: {  
    replicas: 3,  
    podSpecTemplate: {
```

Synth

```
$ cdk8s synth
```

Apply

```
$ git add dist/myapp.k8s.yaml  
$ git commit
```

Cdk8s +



cdk8s

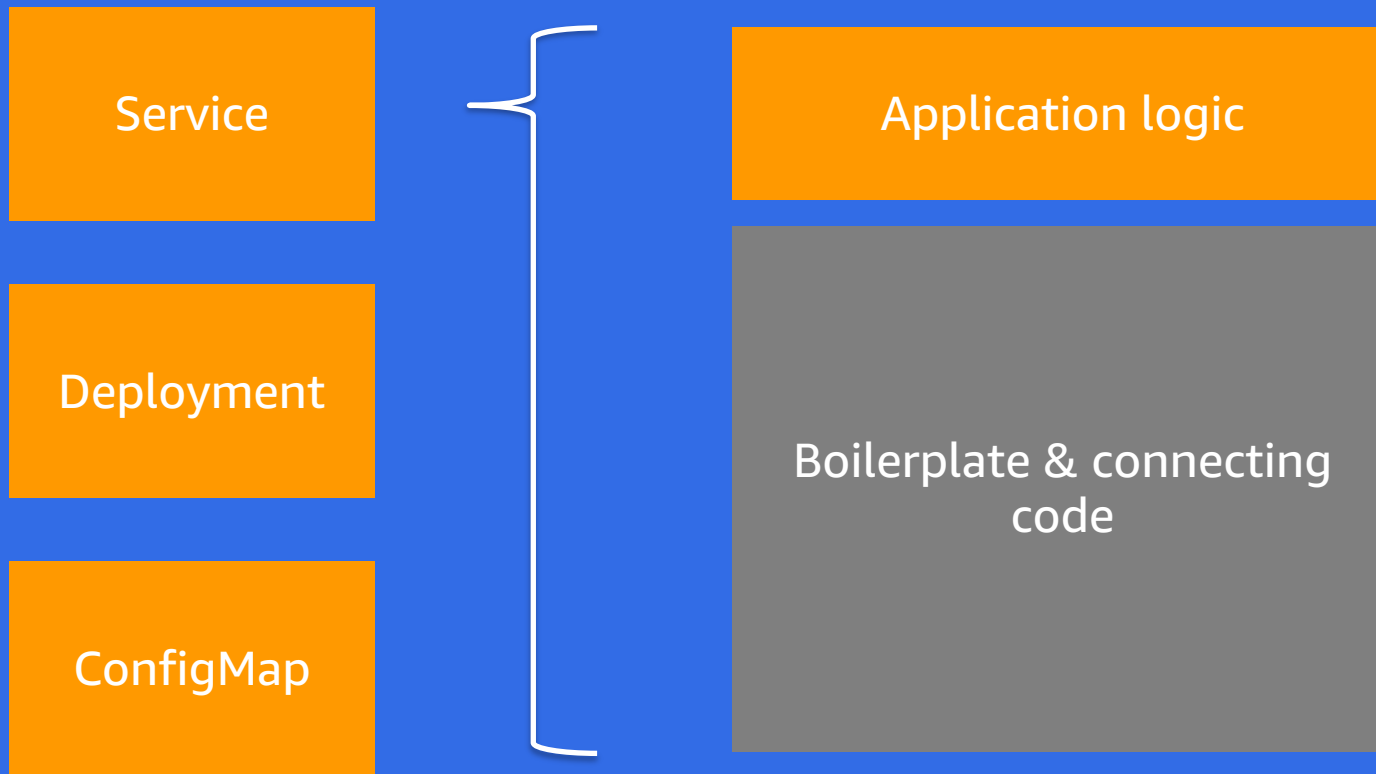
Service

Deployment

ConfigMap

```
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations: {}
  labels: {}
  name: chart-deployment-pod-d4285cc9
spec:
```

cdk8s+



Demo



Try

<https://github.com/awslabs/cdk8s/tree/master/examples/typescript/cdk8s-plus-elasticsearch-query>

Contribute

github.com/awslabs/cdk8s

Visit

cdk8s.io

