Saying goodbye to YAML engineering with cdk8s

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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 +
apiVersion: apps/v1
kind: Deployment
metadata:
  annotations: {}
  labels: {}
  name: chart-deployment-pod-d4285cc9
spec:
  replicas: 2
cdk8s+

- Service
- Deployment
- ConfigMap

Application logic

Boilerplate & connecting code
Try
https://github.com/awslabs/cdk8s/tree/master/examples/typescript/cdk8s-plus-elasticsearch-query

Contribute
github.com/awslabs/cdk8s

Visit
ck8s.io