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End YAML engineering with cdk8s!

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Who we are

Elad
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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.

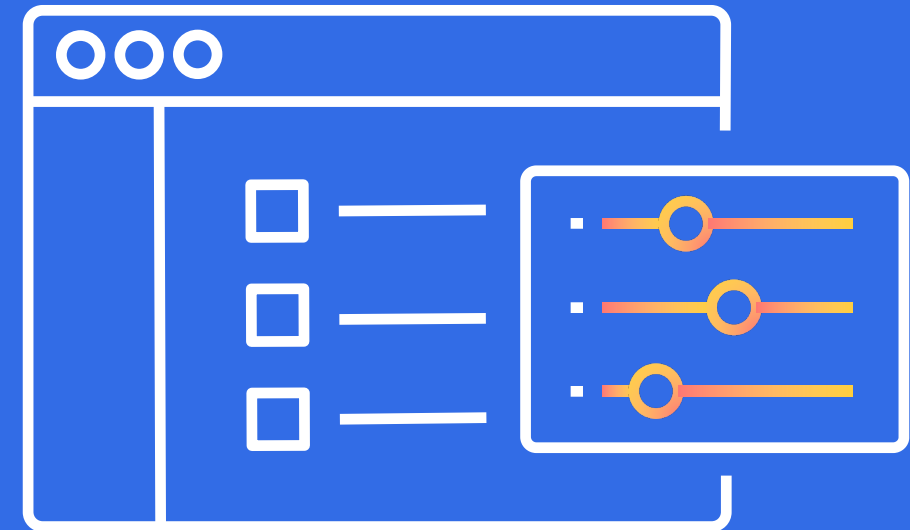Standardize across on-premises and any cloud.

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YAML

Easy for humans

Universal

Declarative – desired state

Static

YAML

Easy when you have a few things

Gets harder as you grow!

- Promotes copy/paste
- Customizations are manual or require special tooling
- Updates are complex

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General-purpose languages

Familiar to developers

Specialized

Imperative

Dynamic

Tools and workflows

cdk8s bridges imperative languages with declarative YAML.

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Easily define applications

Define Kubernetes applications using familiar programming languages.

Today: Javascript, Typescript, Python
Future: Go, .NET, and more!

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Share best practices as libraries

Compose and share reusable components through code libraries.

Libraries are easier to update, maintain, and share than templates. Use cdk8s to standardize how you define Kubernetes.

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Simplify application workflows

Use the same tools to build and define your application.

Using cdk8s and GitOps, you can write your application and its configuration as code, then deploy it through CICD pipelines to your cluster.

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Demo

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Things to know

This is day one. cdk8s is **alpha** today and we have big things planned!

Supported languages are **Python**, **Typescript**, and **Javascript**. Support for more languages (including Go, Java, and .NET) is on our roadmap!

cdk8s is built for the **entire community** and can work with any cluster, anywhere.

We love contributions. Open a issue or pull request at **github.com/awslabs/cdk8s**

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Questions?

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cdk8s.io
github.com/awslabs/cdk8s