

CDK for Terraform

Cloud Development Kit for HashiCorp Terraform

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Outline

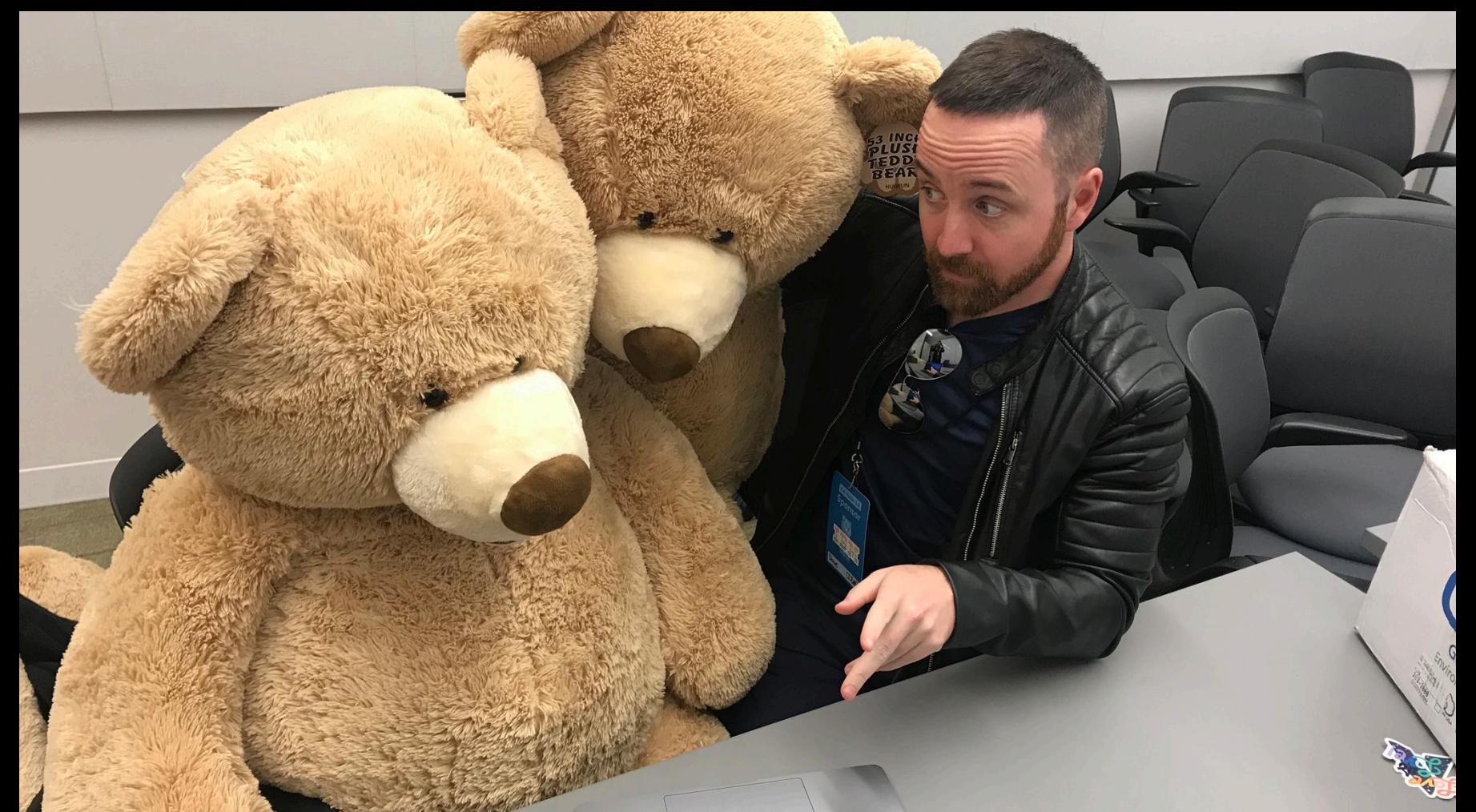
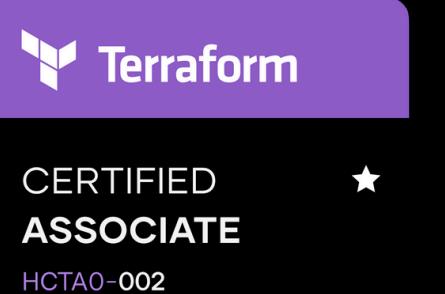
- Background
- Terraform & CDKTF
- Lab
- Conclusion
- Q&A
- References

About David

I'm a developer advocate in San Francisco.

I also help organize:

- The SF JavaScript Meetup
- IBM Developer SF Meetup
- ForwardJS San Francisco && Ottawa



Part 1: Background

A Background of IAC

Cloud Development Kit for Terraform

- Infrastructure as Code
- Terraform
- Declarative vs imperative
- Reliability and consistency

What is CDKTF

Cloud Development Kit for Terraform

- Define infrastructure using an imperative programming language
- Use more complex language features
- Utilize existing Terraform ecosystem

Part 2: Terraform & CDKTF

Cloud Development Kits



aws
**Cloud
Development
Kit**

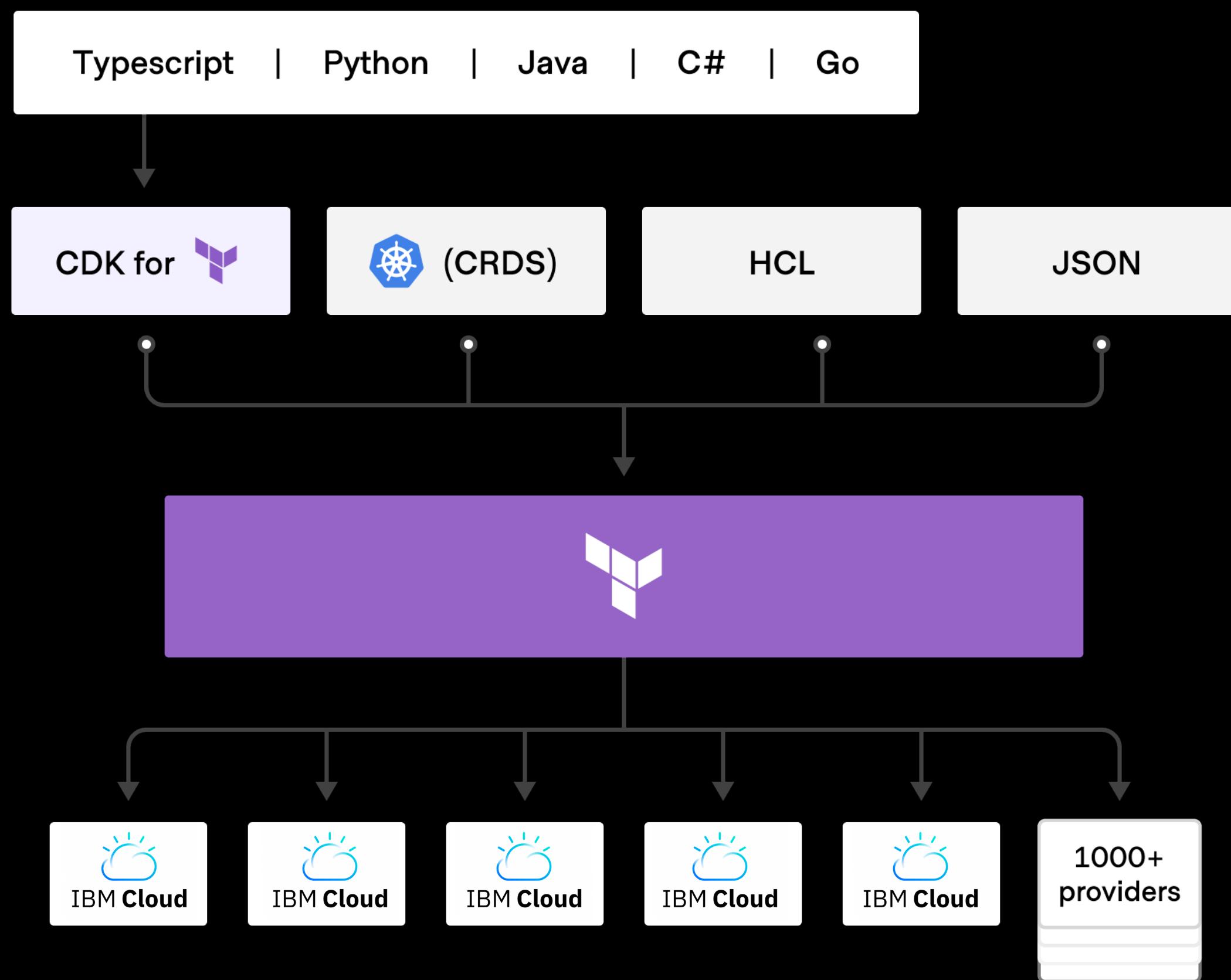


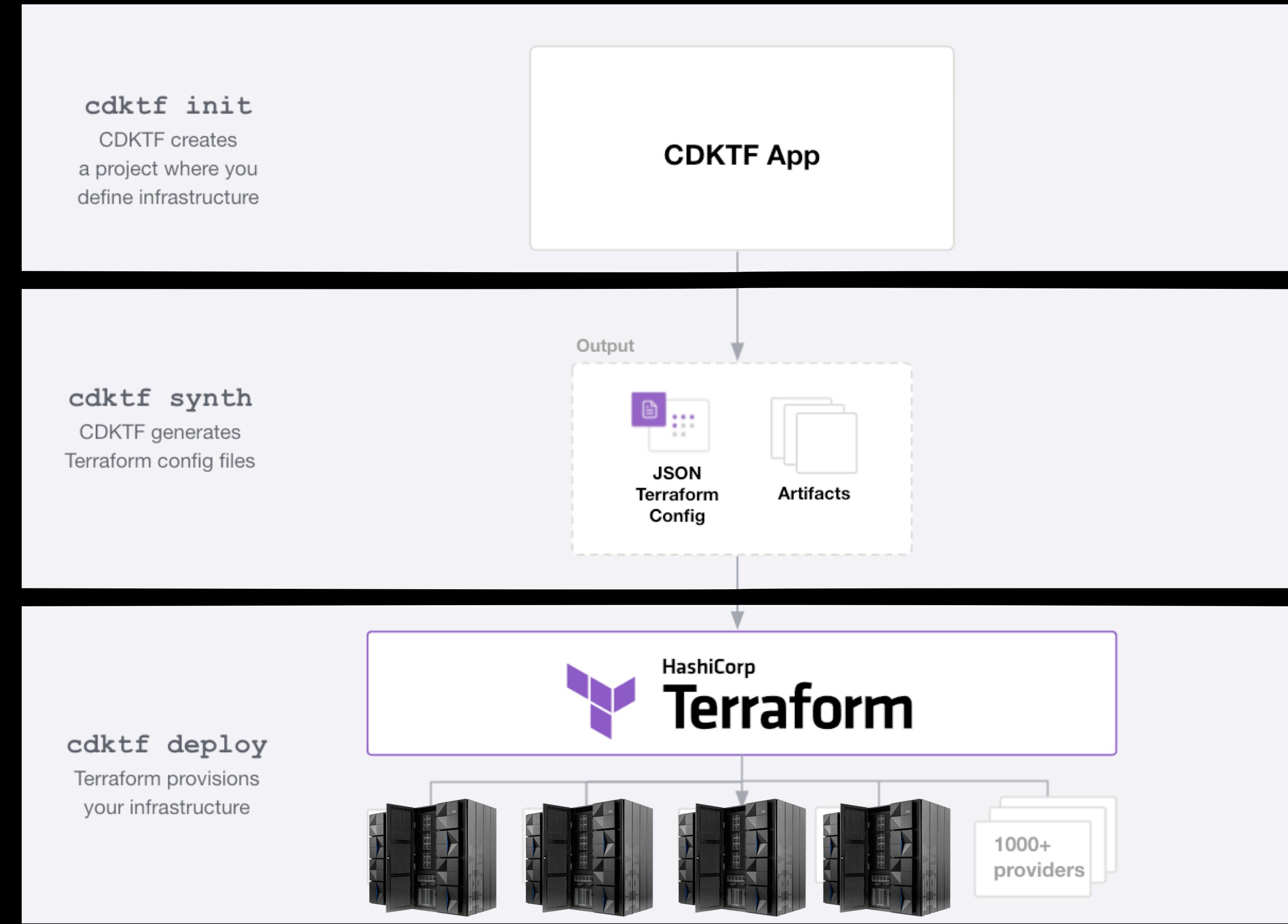
Definitions & Terms

- Stacks
- Scope
- Constructs

Cloud Development Kit for Terraform

- Define infrastructure with code
- Useful for certain teams/projects
- jsii [github]





CDKTF CLI

Command reference

- `completion`
- `convert` (known limitations)
- `diff`
- `synth`
- `watch`

Part 3: Lab

Command Reference

Prerequisites: node.js, terraform, npm

- `npm install --global cdktf-cli@latest`
- `cdktf init -template=typescript --local`
- Going over `cdktf.json`
- Install PodMan: `brew install podman`
- `cdktf get`

Full lab instructions

Lab Next Steps

- Build AWS Infrastructure with CDK for Terraform
- Deploy Lambda Functions with TypeScript and CDKTF

Part 4: Conclusion

References

Videos

- [HashiCorp Live: CDK for Terraform \(2020\)](#)
- [HashiCorp Live: CDK for Terraform \(2021\)](#)
- Michael Levan, [HashiCorp CDK Getting Started](#)
- [CDKTF CLI Configuration](#)

Documents

- [Pre-built providers for CDKTF](#)
- [Stacks in CDKTF](#)
- [Constructs in AWS CDK](#)
- [Install CDKTF and Run a Quick Start Demo](#)

Downloads

- [Docker Desktop](#)
- [Installing Podman](#)



Thank You!

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Q&A