Multi-Cloud Container Applications with CDK for Terraform

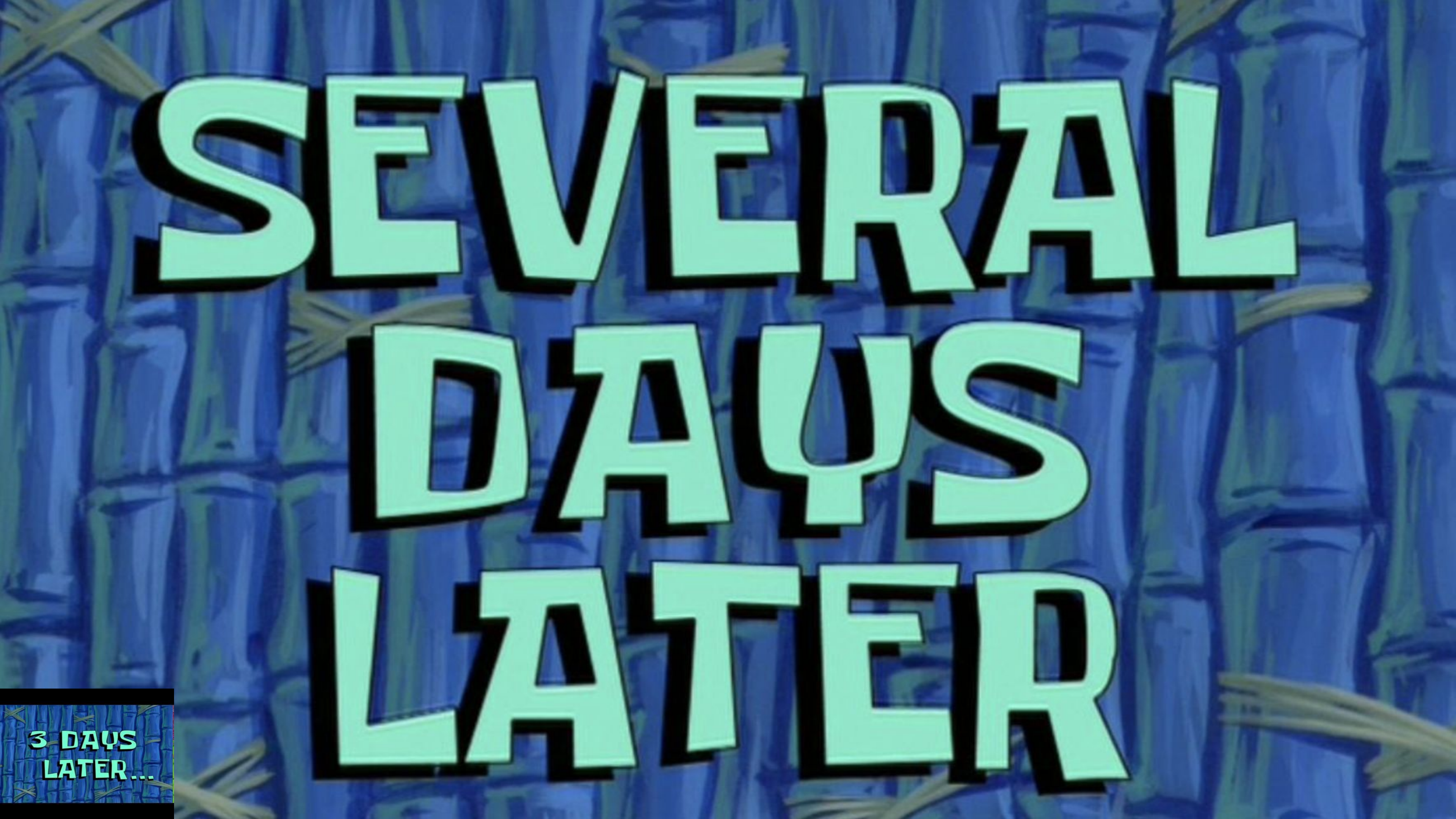
•••

CDK x Terraform 跨雲演出

Stroy (1) ...

I have a dream.
I want my appication , run on azure appservice.

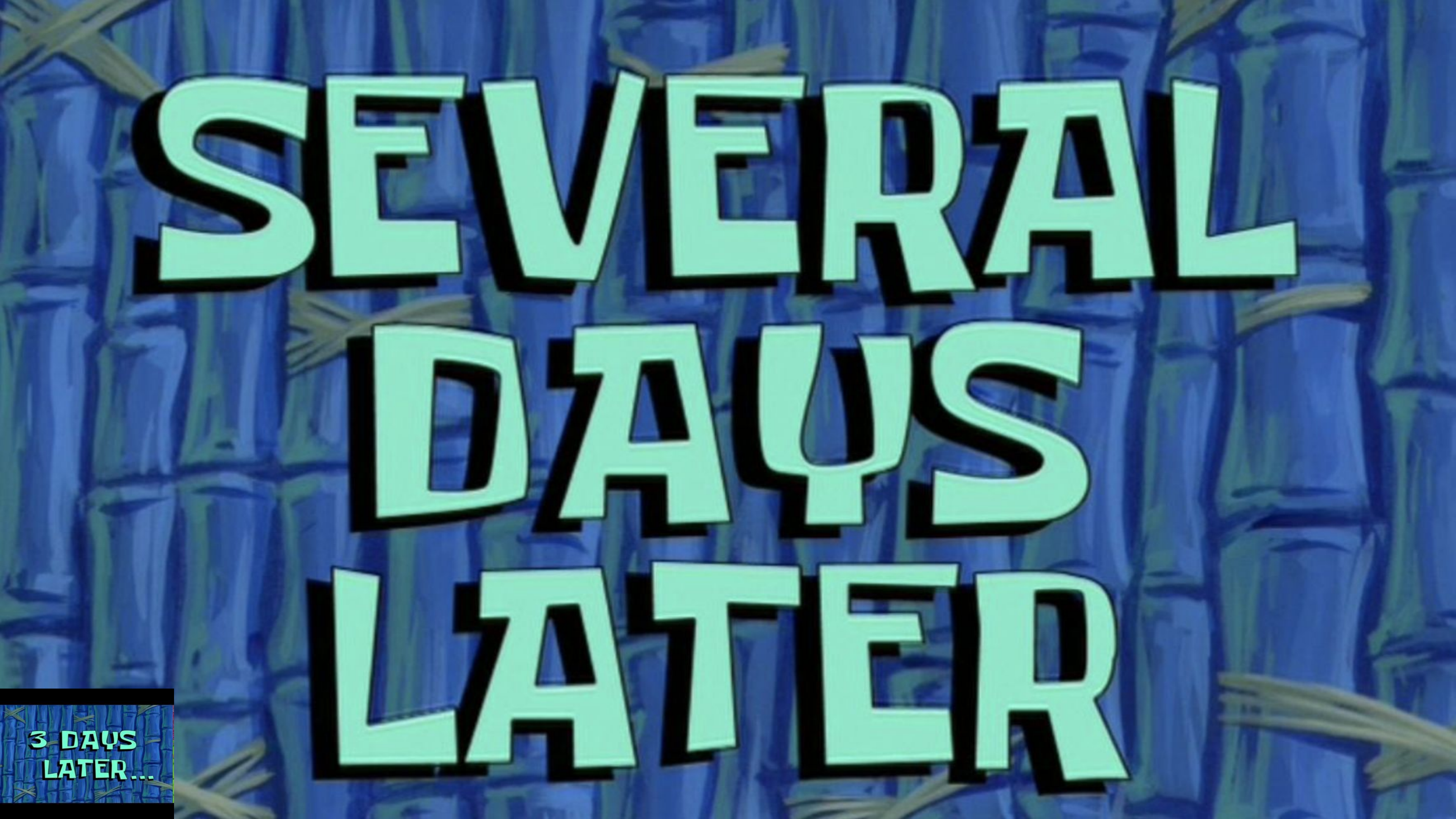
Okay !! No Problem .


SEVERAL DAYS LATER
3 DAYS LATER...

Stroy (2)...

I have another dream.
I want my appication , run on azure appservice and AWS .

Okay … I try my best .

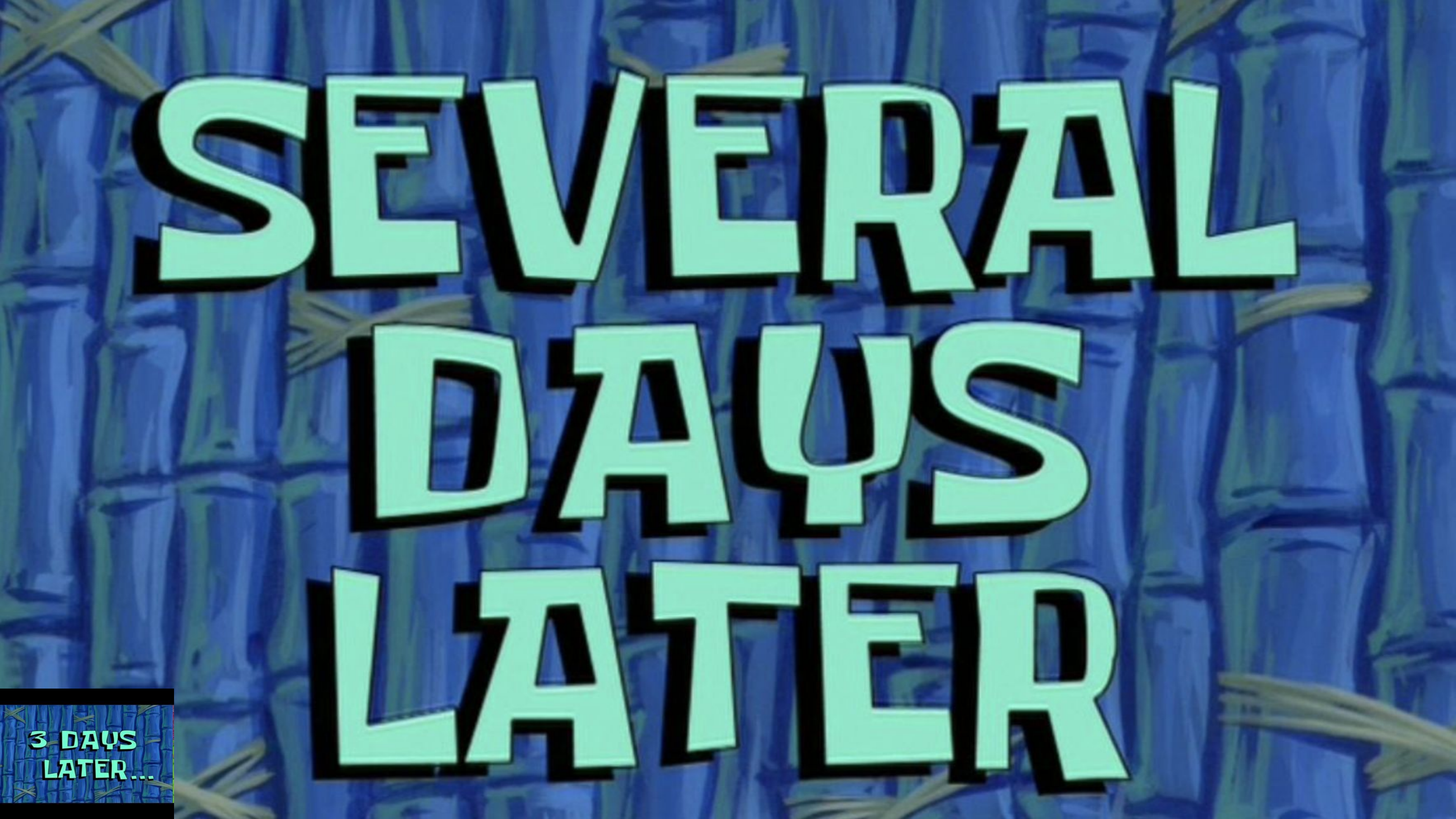

SEVERAL DAYS LATER
3 DAYS LATER...

Stroy (3)...

I already run your application on AWS and Azure .

I have another dream.
I want my application , run on azure Appservice ,
and other cloud like AWS and GCP etc… , and
easy to deploy .

okay ...


SEVERAL
DAYS
LATER
3 DAYS
LATER...

Stroy (4) ...

AWS

Cloudformation

Deploy Manager

Resource Manager

阿里云 aliyun.com

Resource Orchestration

But every cloud has its own way of setting

How to let it easy to deploy ....

Stroy (5)...

Stroy (6)...

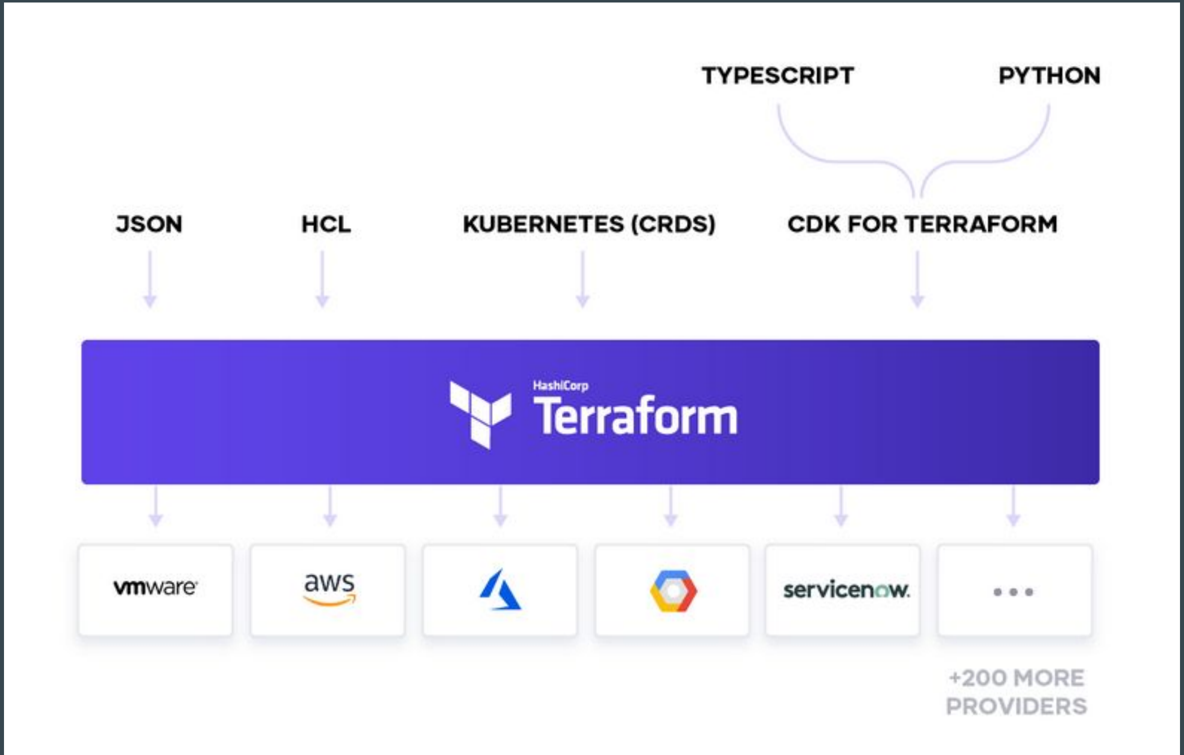
CDK for Terraform

CDK for Terraform is origin from open source porject Terrastack was built over the course of a few days in March 2020.

After four months, the successor of Terrastack - the Terraform CDK - got launched as a joint effort by Hashicorp, the AWS CDK team with @skorfmann.

source blog

CDK for Terraform



With the CDK for Terraform you can define infrastructure resources using the supported programming languages. The tool generates a Terraform configuration in JSON that can be applied with terraform apply or using the CDK for Terraform CLI with cdktf deploy.

so we can use like typescipt , python define your resource deploy to **Multi-Cloud**

Story

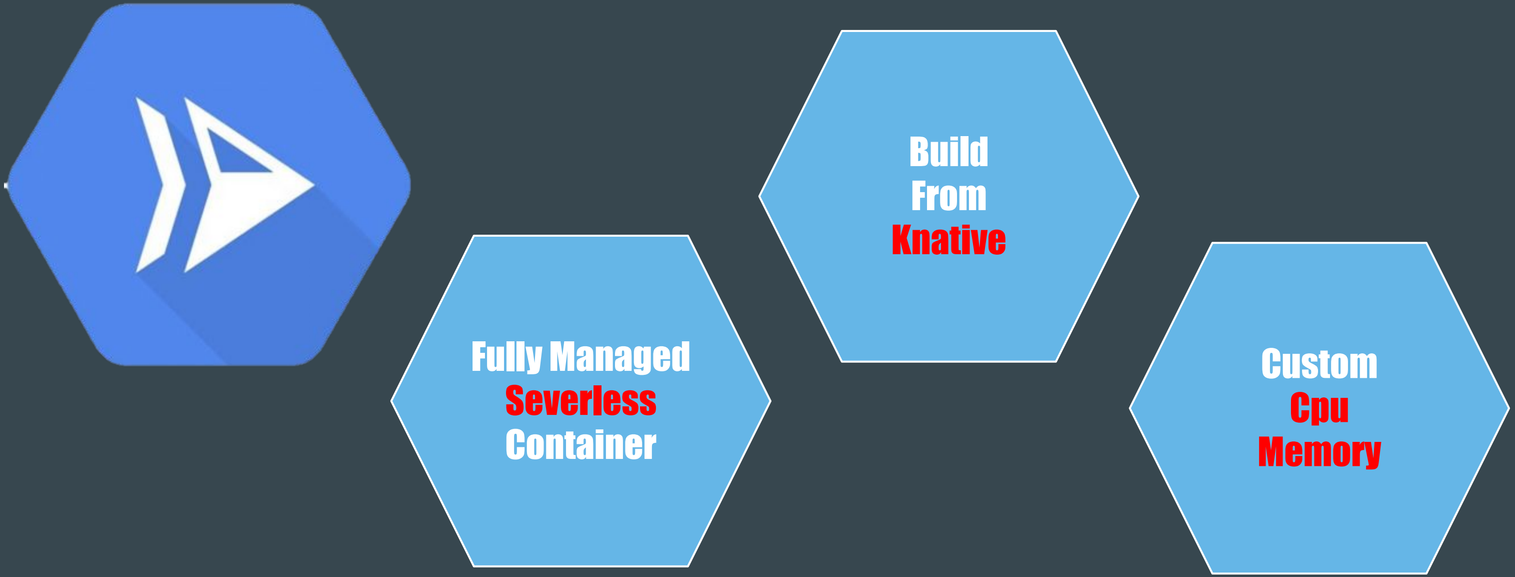
Now we know , can use **CDK for Terraform** define our Infrastructure

But how make it fast deploy

Container !!!

Google CLoud Run project > GCR image > Cloud Run

GCP Cloud Run is built from Knative, letting you choose to run your containers either fully managed with Cloud Run, in your Google Kubernetes Engine cluster, or in workloads on-premises with Cloud Run for Anthos



Fully Managed
Severless
Container

Build
From
Knative

Custom
Cpu
Memory

AWS ECS/EKS Fargate

VPC > ECS Cluster > Fargate > Route53

AWS Fargate is a serverless compute engine for containers that works with both Amazon Elastic Container Service (ECS) and Amazon Elastic Kubernetes Service (EKS).

Custom
Cpu
Memory

Good
Friend
EKS / ECS

Severless
Container

Azure AppService for Containrs

Resource group > AppServicePlan > AppService

Azure App Service for Containers will deploy the containerized application to the production stage in a few seconds according to your preferred dependencies.

Easy
Deploy
Containerized
Appication

Full
Managed
infrastructure

automatically
handles OS
patching and
load balancing

Alibaba Docker Swrm

Alibaba Cloud Container Service is a scalable, high-performance, container management product that allows you to orchestrate and manage containerized application lifecycles with either Docker Swarm

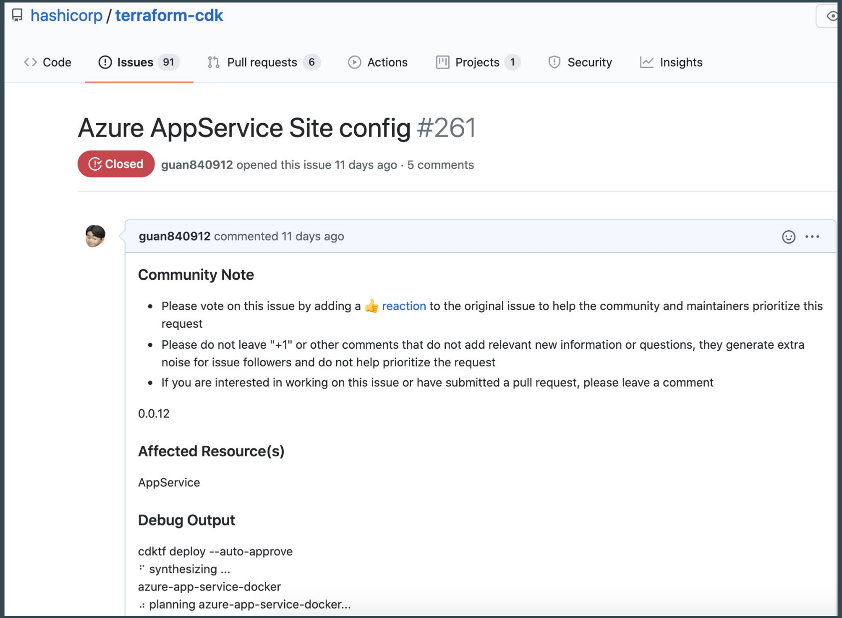
Deploy Service Like Dockercompose Yaml

Full Managed infrastructure

Easy Deploy Containerized Appication

About CDK for Terraform a few week ...

After using the CDK for Terraform up to now, I have felt its power. Because of the AWS CDK, it is very easy to get started, but because of the alpha version, I still encountered one or two issues in the process.



hashicorp / terraform-cdk

Code · Issues 91 · Pull requests 6 · Actions · Projects 1 · Security · Insights

Azure AppService Site config #261

Closed · **guan840912** opened this issue 11 days ago · 5 comments

guan840912 commented 11 days ago

Community Note

- Please vote on this issue by adding a 👍 reaction to the original issue to help the community and maintainers prioritize this request
- Please do not leave "+1" or other comments that do not add relevant new information or questions, they generate extra noise for issue followers and do not help prioritize the request
- If you are interested in working on this issue or have submitted a pull request, please leave a comment

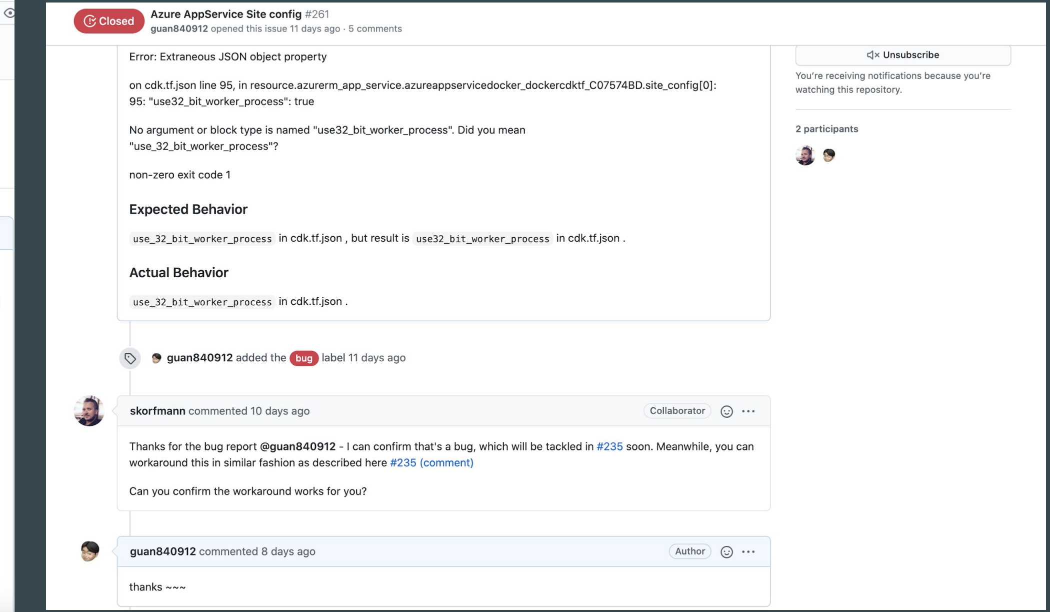
0.0.12

Affected Resource(s)

AppService

Debug Output

```
cdktf deploy --auto-approve
⠁ synthesizing ...
azure-app-service-docker
⠤ planning azure-app-service-docker...
```



Closed **Azure AppService Site config** #261
guan840912 opened this issue 11 days ago · 5 comments

Error: Extraneous JSON object property

on cdk.tf.json line 95, in resource.azurerm_app_service.azureappservicedocker_dockercdktf_C07574BD.site_config[0]:
95: "use32_bit_worker_process": true

No argument or block type is named "use32_bit_worker_process". Did you mean
"use_32_bit_worker_process"?

non-zero exit code 1

Expected Behavior

`use_32_bit_worker_process` in cdk.tf.json , but result is `use32_bit_worker_process` in cdk.tf.json .

Actual Behavior

`use_32_bit_worker_process` in cdk.tf.json .

guan840912 added the bug label 11 days ago

skorfmann commented 10 days ago · Collaborator

Thanks for the bug report @guan840912 - I can confirm that's a bug, which will be tackled in #235 soon. Meanwhile, you can workaround this in similar fashion as described here #235 (comment)

Can you confirm the workaround works for you?

guan840912 commented 8 days ago · Author

thanks ~~~

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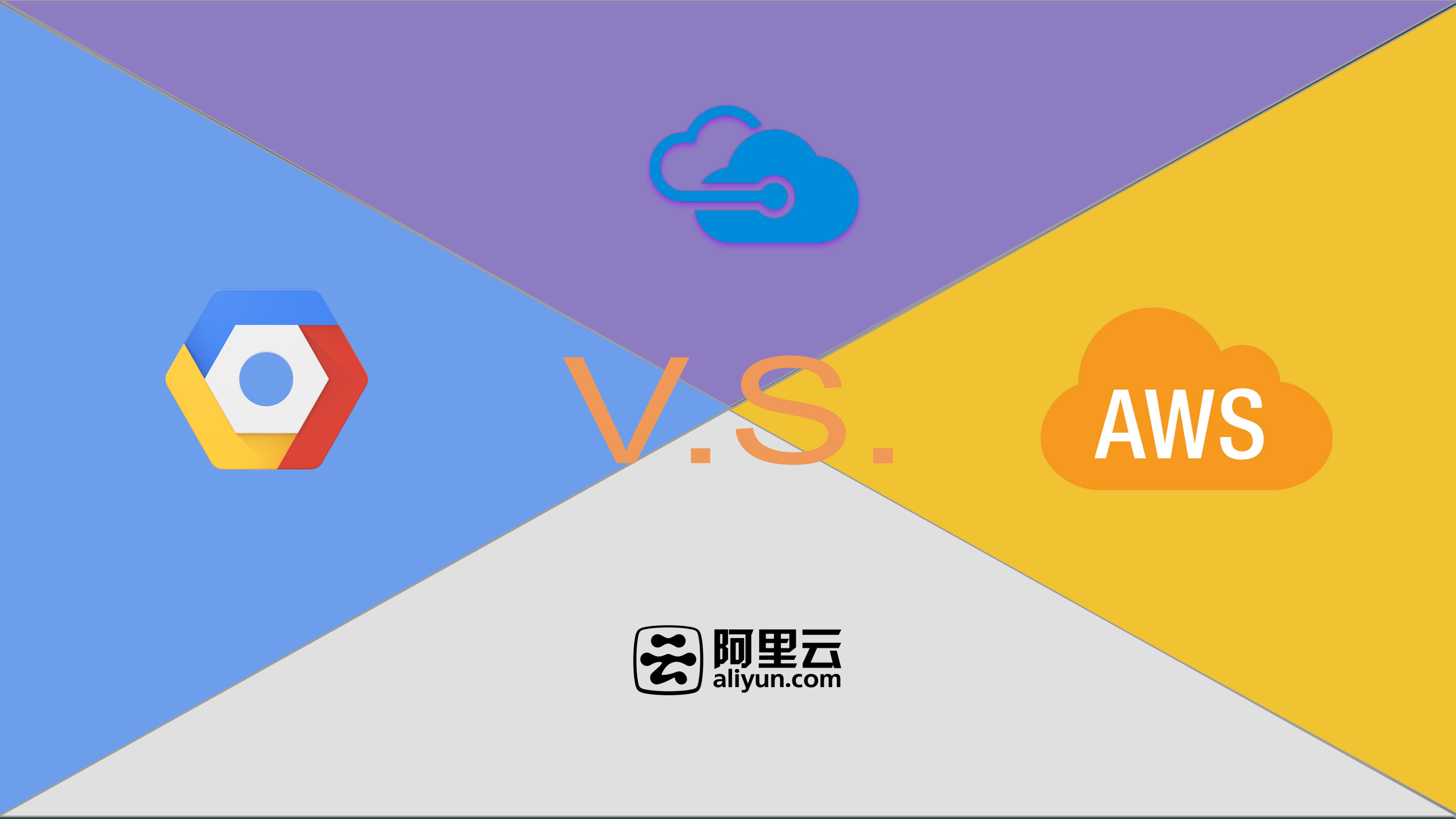
CDK for Terraform

Start to Demo …



V.S.

Just for Fun！！！

Which one application do you think can be used fastest ??