Datacenter Unplugged

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$ godoc tormath1

- DevOps engineer @ Cycloid
- Like sharing / learning
- Go / Python developer

import “context”

- Infrastructure as Code (IaC)
- Migrating !IaC → IaC can be tough
- Can be a brake to DevOps adoption

$ vim cycloid/helpers.go

- TerraCognita: tool to import !IaC as Terraform HCL / TFstate
- InfraMap: tool to generate graphs from Terraform HCL / TFstate
- Two OSS built around Terraform

$ yay -S terracognita

```
# mathieu @ arch-x250 in ~ [12:18:12]
$ pacman -Qs terracognita
local/terracognita 1:0.5.1-1
    Reads from existing Cloud Providers (reverse Terraform) and generates your infrastructure as code on Terraform configuration
```

- Supports AWS, GCP and AzureRM TF providers
- Naive interpolation (HCL interpolation + TFstate dependencies)
- HCL2 compliant / designed as a lib

$ yay -S inframap

```
# mathieu @ arch-x250 in ~ [12:19:16] C:127
$ pacman -Qs inframap
local/inframap 0.3.0-1
    Read your tfstate or HCL to generate a graph specific for each provider, showing only the resources that are most
    important/relevant
```

- Supports all Terraform providers with affinities for AWS, GCP, OpenStack, Azure and FlexibleEngine
- Scalable
- Supports HCL / TFstate

$ ./demo

- Two manually created instances on my GCP account with mutual connection

1. Use TerraCognita to import them as code

2. Use InfraMap to display a graph

To conclude

- TerraCognita to help converting infra as code
- InfraMap to generate graph from TF
- IaC is better when started from the beginning (but it’s never too late 😉)
- You can pull the plug now

Going further

- TerraCognita roadmap: https://github.com/cycloidio/terracognita/issues/118
- InfraMap GH : https://github.com/cycloidio/inframap
- Tool used for the demo: https://github.com/saschagrunert/demo
- Pablo, you owe me 1€ for the GCP instance fees

Thanks for your attention! Questions?