

Refactoring hundred of environments with terraform

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About me

- I am Carlos Angulo
- I work at Ohpen
- I have more than 7 years of experience. Last years as a Platform Engineer
- You can follow me on LinkedIn or GitHub(cangulo)



Goal

We want to refactor and simplify a terraform solution.
How would you tackle this ? 🤔

demo time 🧑💻

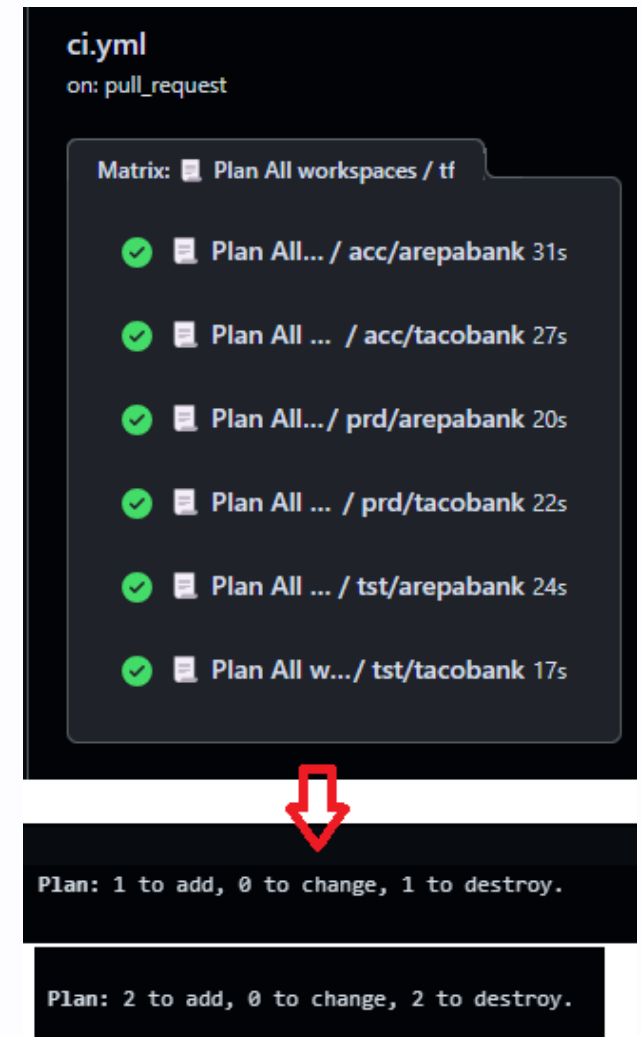
```
mbdas.tf M X
form > 🐞 lambdas.tf > ...
resource "aws_lambda_function" "payments" {
  count          = try(var.payments.enabled, false) ? 1 : 0
  function_name = "${local.resources_prefix}-payments"
  # ...
}

resource "aws_lambda_function" "crm" {
  count          = try(var.crm.enabled, false) ? 1 : 0
  function_name = "${local.resources_prefix}-crm"
  # ...
}

resource "aws_lambda_function" "transactions" {
  count          = try(var.transactions.enabled, false) ? 1 : 0
  function_name = "${local.resources_prefix}-transactions"
  # ...
}
```

Problem

- We edit the code and we perform a terraform plan to ensure our changes do what we expect. 📄
- If we have 3 environments, we check 3 terraform plans. But, what if we have hundreds of environments? 100



What do we need?

- We need to aggregate all the environments changes so it is easy for us to know how our changes affect them.

```
Plan: 1 to add, 0 to change, 1 to destroy.
```

```
Plan: 2 to add, 0 to change, 2 to destroy.
```

```
Plan: 0 to add, 0 to change, 2 to destroy.
```

```
Plan: 2 to add, 0 to change, 2 to destroy.
```

Our solution

- We end up creating a open source GH action for it:
 - [terraform-plan-summarize-gh-action](#)

Summary

environment	deleted	created	updated	replaced
acc-arepabank	0	0	0	0
acc-tacobank	1	1	0	0
prd-arepabank	0	0	0	0
prd-tacobank	1	1	0	0
tst-arepabank	0	0	0	0
tst-tacobank	1	1	0	0
Total	3	3	0	0

Questions?