

# Terraform Practices

## to Enable Infrastructure Scaling



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# Hi! I'm Hila Fish 🏳️‍🌈

*Senior DevOps Engineer / SRE @ Wix.com*

*15 years in tech*

*Conference co-organizer -*

*DevOpsDays TLV & StatsCraft*

*Lead singer in a cover band 🎤*



# 1. Applying classic code best practices

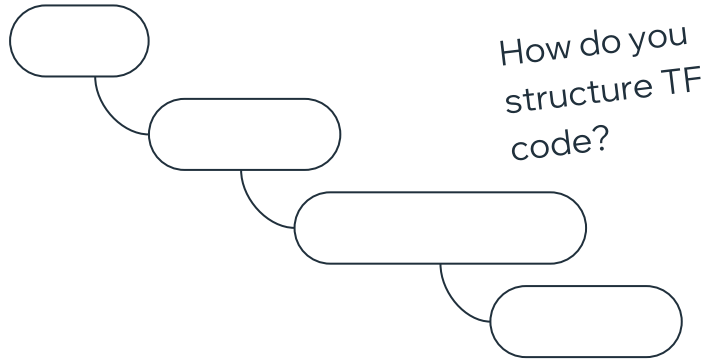
# 1. Applying classic code best practices



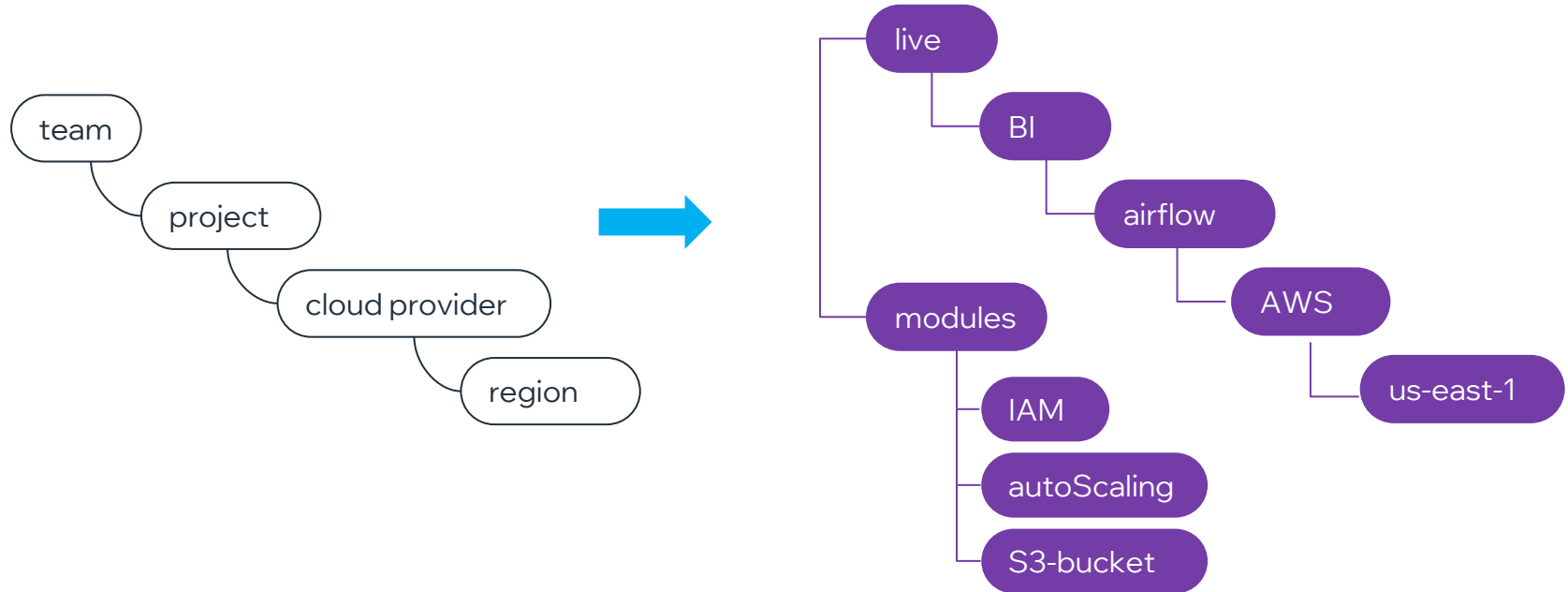
- SCM
- KISS
- DRY
- Idempotency
- Functional programming
- “Human” & Clean

**How do you envision the  
infra & company needs?**

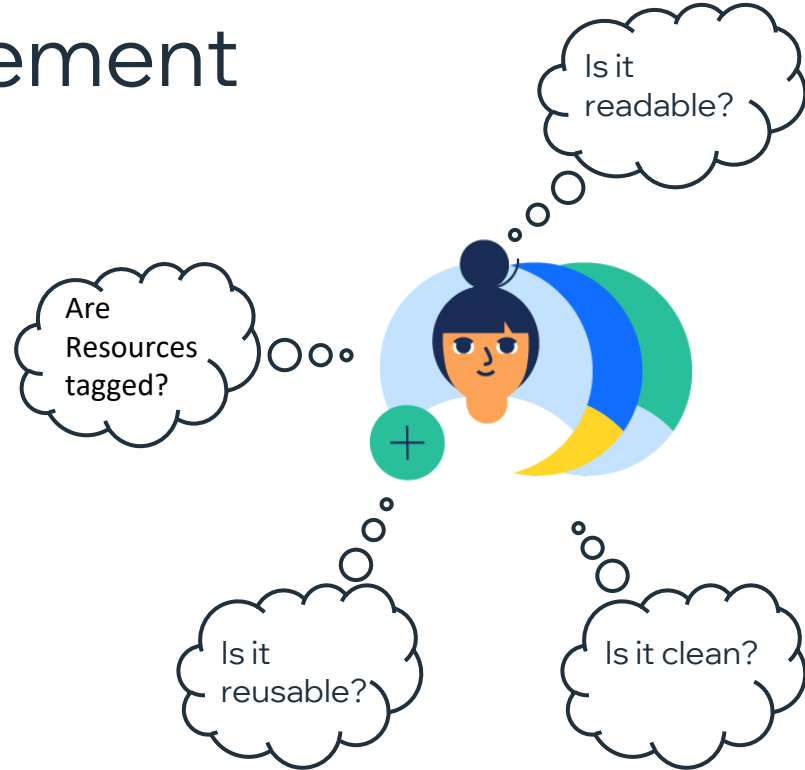
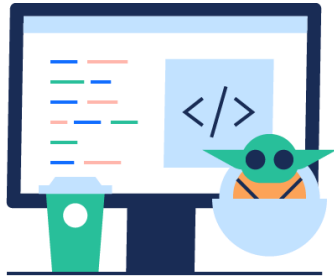
## 2. Structuring your TF code base



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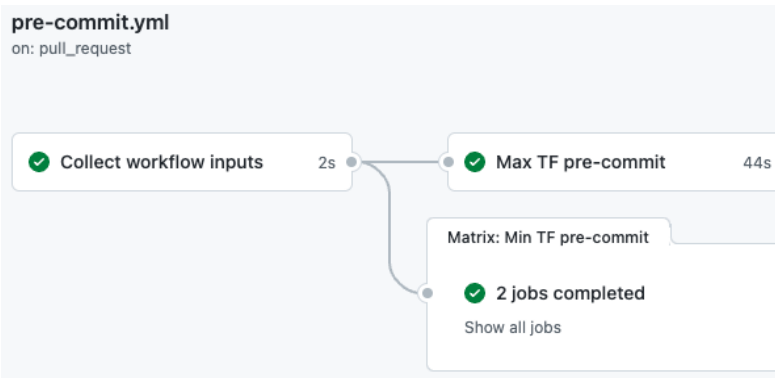
# 3. Practices Enforcement





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pre-commit.yml  
on: pull\_request



Matrix: Min TF pre-commit

- 2 jobs completed  
Show all jobs

- Set up job
- Checkout
- Terraform min/max versions
- Pre-commit Terraform 1.1.7
- Post Checkout
- Complete job

```
Terraform fmt.....Passed
Terraform validate.....Passed
Terraform docs.....Passed
Terraform validate with tflint.....Passed
check for merge conflicts.....Passed
fix end of files.....Passed
```

<https://github.com/terraform-aws-modules/terraform-aws-autoscaling>

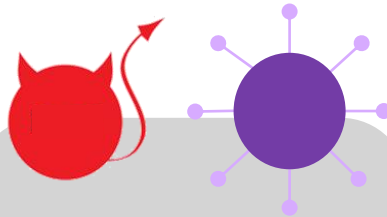
## Did the contributor ...

- format the code?  
**i.e., Terraform fmt**
- add documentation?
- write a working code?  
**i.e., tflint**

# 3. Practices Enforcement



- Pre-merge linters, formatters and logical checks
- GitHub actions/CI pipeline checks
- Slack bot drift reporter
- main = actual environment



- Security
- non-compliant config

## OSS enforcement & helpers:

- TFlint
- TFsec
- Infracost
- Inframap
- ValidlaC
- Terratest
- Terratag
- Terragrunt
- Checkov
- KICS
- Super-Linter



## **Code Base Structure**

TF as a Platform  
Small state files



## **Practices Enforcements**

Enable Infra &  
teams scaling



Like any other tool,  
don't use Terraform in an ad hoc mindset.



Plan for your future needs.

# Thank You!

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