Terraform Import

Leverage the power of Terraform with existing cloud infrastructure

Who am I?

- Alan Lapington
- Infrastructure / Software Engineer at **Estrato Cloud**
- Dad, Runner, Swimmer, Skateboarder, Musical Instrument Player

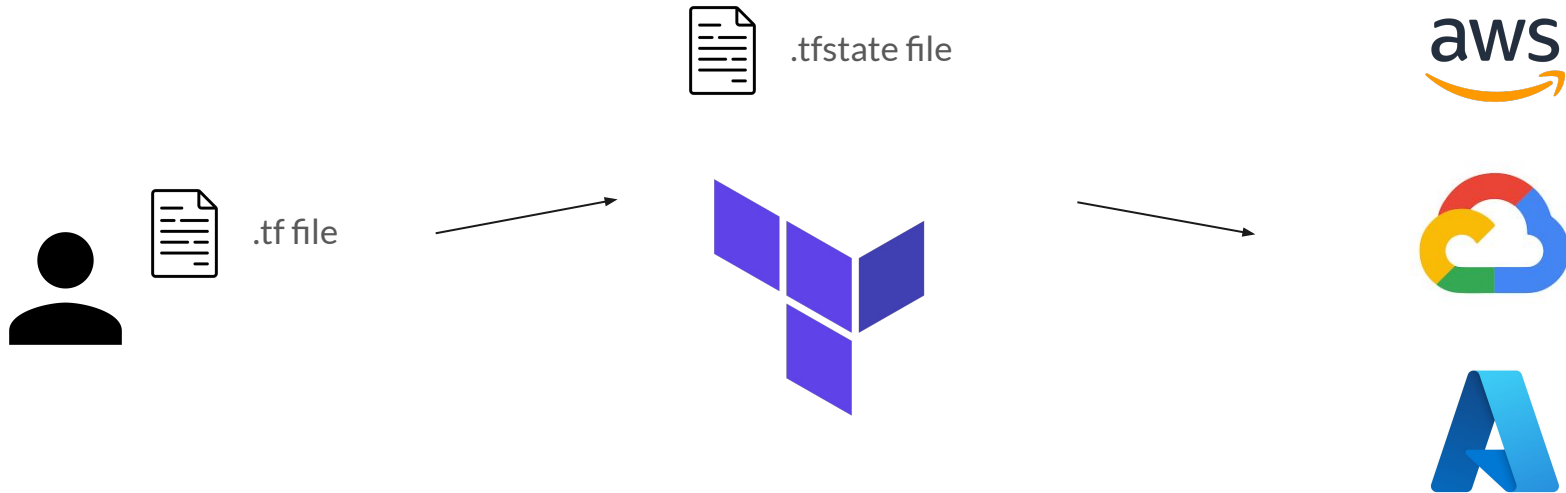# Why another talk on Terraform?!

Benefits of Terraform (brief!)

- IAC
- Code = Documentation
- Simplified release process
- Tightly-controlled user access
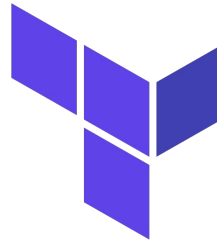- Support for many cloud providers

Terraform State

.tf file

.tfstate file

aws

Terraform Import

.tfstate file

.tf file

ESTRATO

aws

Dev Process

- POC and exploration in portal, lock in with terraform
- Use import as a tool to provide config for you
- Docker for everything
- Can be used for automated deployments and checks
- Caveat - Some things don't get picked up by import

Demo

1. Demo will be Azure-based
2. Spin up the local environment and authenticate
3. Init - Connect to the state
4. Plan - Nothing to do, nothing in the state (but resources exist!)
5. Write a resource definition in terraform
6. Terraform plan - Terraform will try and create resources, but they exist
7. Import the resource, and terraform plan (nothing to do!)
8. Example 2 - Terraform reports something to do!

Bulk Import/Export

- Prepare a task to bring in the entire infrastructure in a single command
- Allows for point in time snapshot to occur
- Multiple resources at the same time
- Azure Export for Terraform (Maybe other cloud providers too)

Drift

- What is drift?
- How can we manage it?

Summary

- Enables companies to get a handle on their infrastructure
- Doesn't prevent teams from prototyping quickly
- Quickly deploy new environments
- Potential to bring together infrastructure and CI/CD workflows
- Tangible deliverable for a client/team

Thankyou!