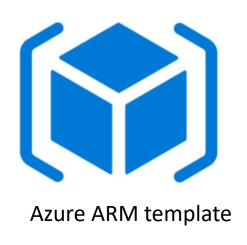
DevOps - IaaC Tools

### **IAAC Tools**





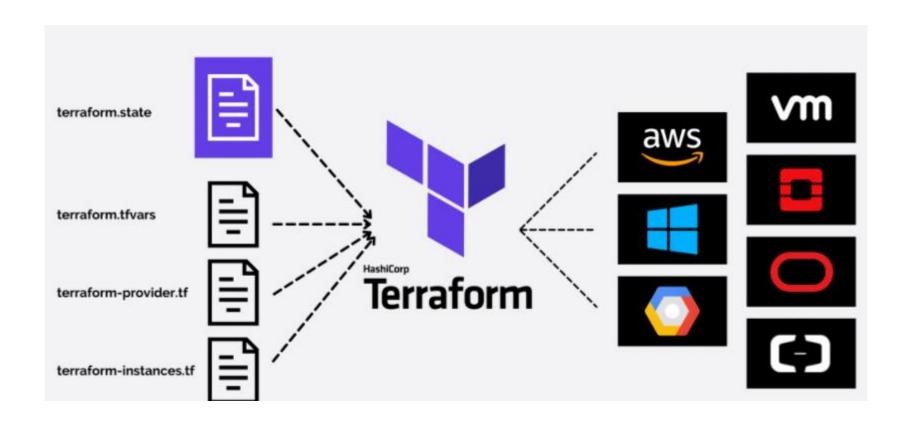




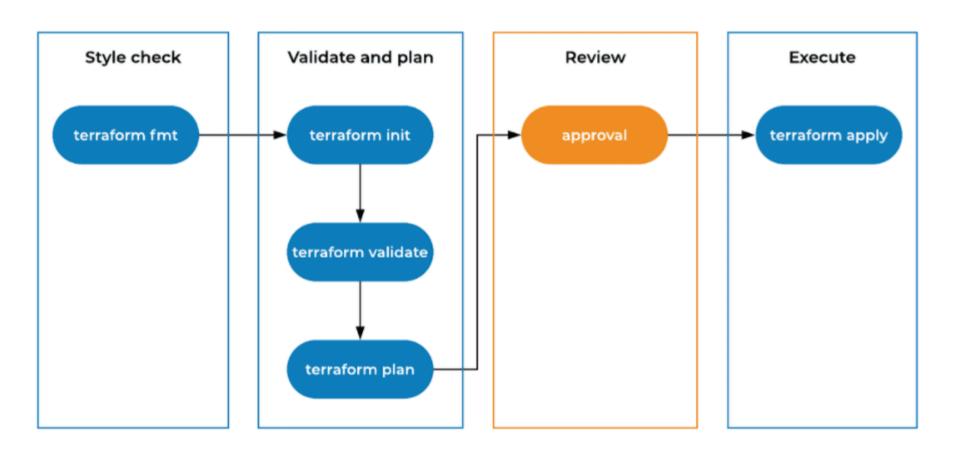
### What is Terraform?

- Terraform is an open source "Infrastructure as Code" tool, created by HashiCorp
- Terraform is an infrastructure as code (IaC) tool that allows you to build, change, and version infrastructure safely and efficiently
- Terraform enables developers to use a high-level configuration language called HCL (HashiCorp Configuration Language) to describe the desired "end-state" cloud or on-premises infrastructure for running an application
- Platform agnostic Can use it with any cloud services provider provisions immutable infrastructure

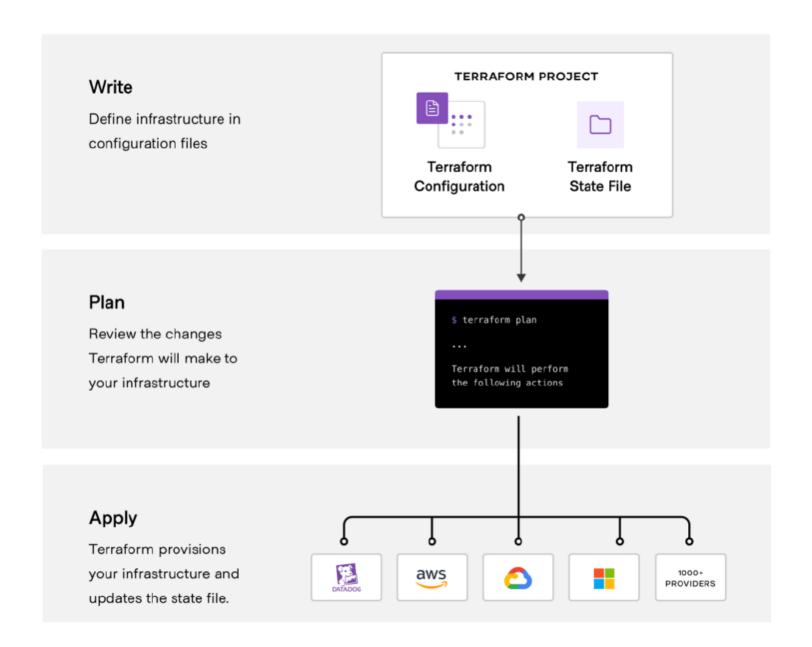
### What is Terraform?



# Terraform Life Cycle



### **Terraform Overview**



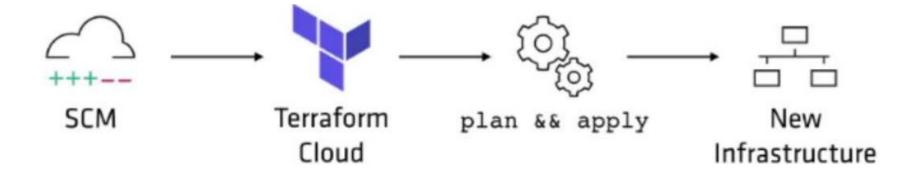
## Terraform – Things to Know

- Installation (Windows/Linux)
- Init/plan/apply/destroy
- Variables
- Outputs
- Providers
- Provider Authentication
- State File
- Remote State Management
- Multi-Environment
- Provisioners
- Modules
- Terraform Registry

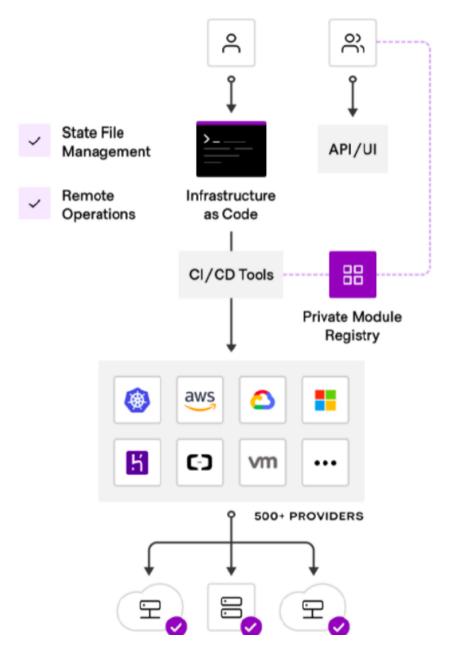
**Terraform Labs** 

# Terraform Cloud Walkthrough

### **Terraform Cloud Overview**



## **Terraform Cloud Overview**



#### What is Terraform Cloud?

- An application that manages Terraform runs in a consistent and reliable environment instead of on your local machine
- It stores shared state and secret data, and connects to version control systems so that you and your team can work on infrastructure as a code within your usual code workflow
- It also has private registry for sharing terraform modules
- Enterprise and business version includes access control for approving changes to infrastructure, detailed policy control for governing content of TF configurations, and more

**Terraform Cloud Lab**