TerraForm:

HashiCorp
Terraform

HashiCorp Terraform is an infrastructure as code tool that lets you define both cloud and on-prem resources in human-readable configuration files that you can version, reuse, and share. You can then use a consistent workflow to provision and manage all of your infrastructure throughout its lifecycle. Terraform can manage low-level components like compute, storage, and networking resources, as well as high-level components like DNS entries and SaaS features.

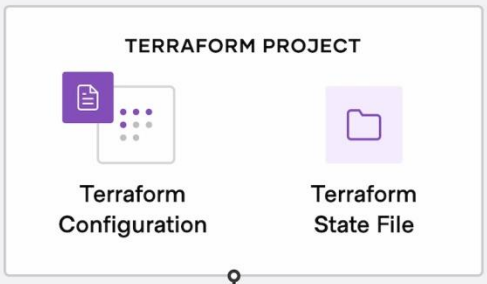
- Terraform is an open-source Infrastructure as code software tool used for provisioning infrastructure on cloud platforms like AWS, Azure, DigitalOcean, etc. If you are considering a career in Cloud or DevOps, then Terraform is the tool you must start learning.

The core Terraform workflow consists of three stages:

- **Write:** You define resources, which may be across multiple cloud providers and services. For example, you might create a configuration to deploy an application on virtual machines in a Virtual Private Cloud (VPC) network with security groups and a load balancer.
- **Plan:** Terraform creates an execution plan describing the infrastructure it will create, update, or destroy based on the existing infrastructure and your configuration.
- **Apply:** On approval, Terraform performs the proposed operations in the correct order, respecting any resource dependencies. For example, if you update the properties of a VPC and change the number of virtual machines in that VPC, Terraform will recreate the VPC before scaling the virtual machines.

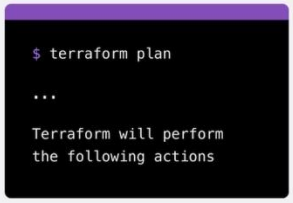
Write

Define infrastructure in configuration files



Plan

Review the changes Terraform will make to your infrastructure



Apply

Terraform provisions your infrastructure and updates the state file.