Course Name

Zabbix And Grafana

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What Is Terraform?

HashiCorp Terraform

is an open-source infrastructure-as-code(Iac) software tool created by HashiCorp. Users define and provide data center infrastructure using a declarative configuration language known as HashiCorp Configuration Language (HCL).

Manage External Public Cloud-Private Cloud:

- Amazon
- Azure
- GCP
- IBM Cloud
- Digital Ocean
- Oracle Cloud
- Vmware
- Openstack

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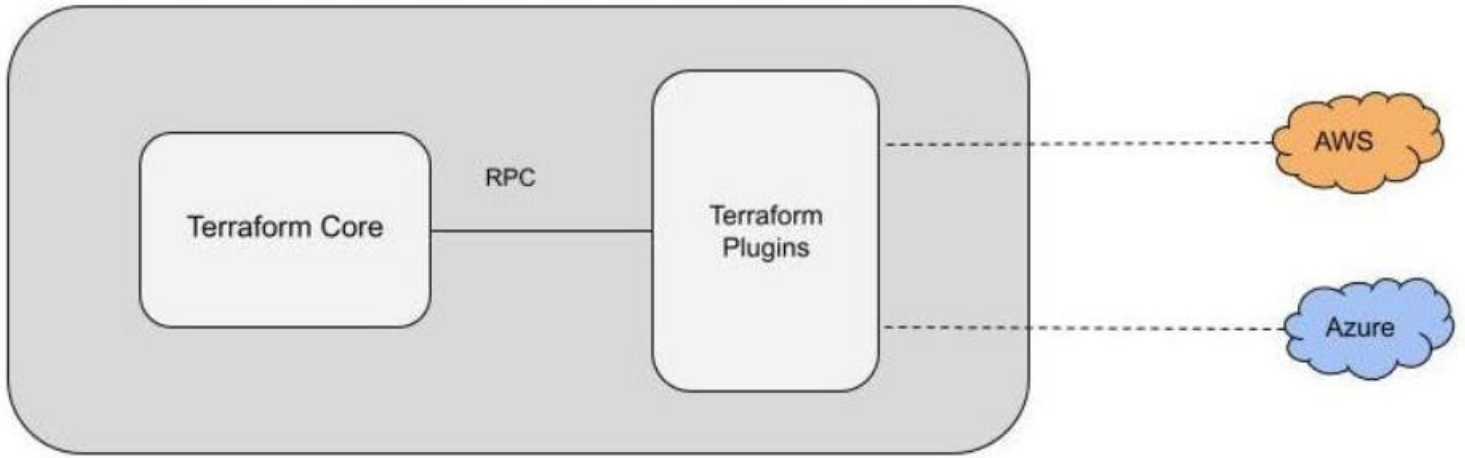
How Terraform Works?

Terraform Core takes into consideration the current state and evaluates it against your desired configuration. It then proposes a plan to add or remove infrastructure components as needed. Next, it takes care of provisioning or decommissioning any resources if you choose to apply the plan.
Terraform Plugins provide a mechanism for Terraform Core to communicate with your infrastructure host or SaaS providers. Terraform Providers and Provisioners are examples of plugins as mentioned above. Terraform Core communicates with the plugins via Remote Procedure Call (RPC).



Terraform Workflow

A typical Terraform workflow will consist of the following steps:

Step 1. Write

Declare your infrastructure resources as code in Hashicorp Configuration Language (HCL).

Step 2. Review the Plan

Terraform will display a plan to add or remove resources based on the comparison of your declared infrastructure and the current state of any existing resources.

Step 3. Apply

Accept the planned changes to add or remove any infrastructure resources. This workflow works well for a single author as Terraform State is stored locally. As more contributors join the team, it becomes important to ensure everyone has a **correct view of the current infrastructure state** and changes are applied sequentially without overlaps.