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**Welcome  
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Network for you  
Terraform**



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## Terraform:

- Terraform was first introduced in July 2014 which supported AWS & Digital Ocean at that time.
- Invented by Mitchell hashimoto
- It is Written in Go Language
- Terraform is useful in case of Multicloud and Hybrid Cloud
- Terraform uses Hashicorp Configure language (HCL)
- It is similar to JSON, but easy and Human readable
- Terraform is IAC Tool (Infrastructure as code).
- IAC is Infrastructure as Code is the managing and provisioning of infrastructure through code instead of through manual process
- Terraform is use for Automation
- It is Open source and it support to all clouds
- IAC for different Cloud AWS – Cloudformation , Azure – ARM Template , GCP – Deployment Manager , Openstack - Heat

There are two ways to approach IAC

**Imperative:** Imperative approach defines the specific commands needed to achieve the desired configuration, and those command then need to be **executed in the correct order**.

**Declarative:** Declarative approach defines the **desired state of the system**, including what resources you need and any properties they should have and an IAC tool will configure it for you.

It is important to understand the different between configuration management tool and IAC tool.

Ansible, Chef, Puppet are configuration management tool which means they are primarily designed to install and manage software on existing Servers.

Terraform and CloudFormation are IAC tools which are designed to provision servers and infrastructure themselves

You can use IAC and CMT (Configuration management tool) altogether for eg. You could use Terraform to Create a new EC2 Instance on AWS, Terraform can then call Ansible to install and configure software and application on the EC2 instances.

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**Benefits of Terraform:**

- Support almost all Cloud Providers and can manage infrastructure on all Clouds.
- Terraform has a simple language known as HCL.
- Easy to integrate with Configuration Management tools
- It is easily extensible with plugins
- It is free
- Terraform keeps tracks of your real infrastructure in a state file.
- Reuse Code

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