

# DAAS-360Cloud

## Building and Automating Enterprise Infrastructure Using Terraform and Packer



<https://www.daas-360cloud.com/>

# About this Course

- Terraform Basic - Introduction, Syntax, Interpolation etc.
- Terraform CLI - Console, Graph, format.
- Building AWS Infrastructure - Getting Started
- Building AWS Infrastructure — S3 , EC2 ,VPC etc.
- Terraform Remote States.
- Building Architectural Components using Terraform - AWS ELB.
- Terraform Modules.
- Creating a Custom VPC using Terraform Modules.
- Introduction to Packer.
- Using Terraform and Packer together for automation.
- Automation Mindset - Shell Scripts , AWS CLI etc.

# Terraform

Terraform is a tool used for building, changing, and versioning infrastructure safely and efficiently.

- Created by Hashicorp in July 2014 ( Other tools -Vagrant , Packer, Vault etc. )
- Terraform is Infrastructure as a Code ( IaC).
- Version - v0.11.8
- A tool to manage databases, service configurations and multiple AWS resources ( Written in GoLang) .
- Supports Multiple providers ( AWS, GCP, Azure, Docker etc.)

# Terraform Providers

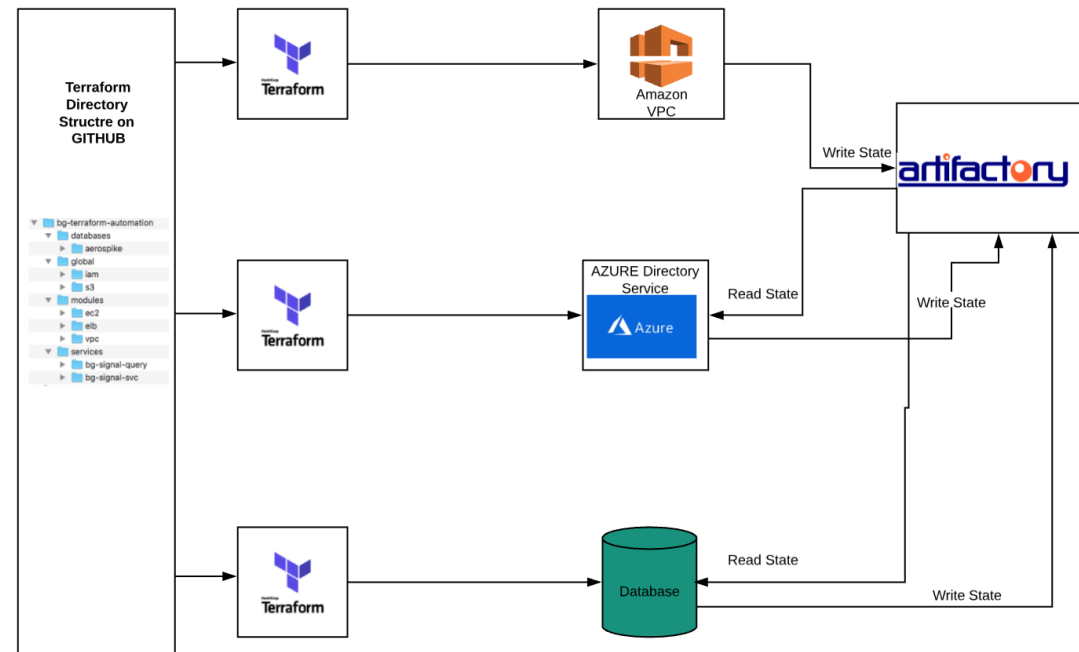
Active Directory	Apigee	Artifactory
Auth0	AVI	Aviatrix
CloudAMQP	CloudKarafka	CloudMQTT
Consul ACL	CoreOS Container Linux Configs	CouchDB
Databricks	Dead Man's Snitch	Digital Rebar
Docker Machine	Drone	Dropbox
EfficientIP	ElephantSQL	ESXI
Gandi	Generic Rest API	Glue
GoCD	Google Calendar	Google G Suite
Helm	Hiera	HTTP File Upload
HP OneView	IBM Cloud	IJ GIO
Infoblox	Jira	JumpCloud
Kabool	Kafka	Kibana
Kong	LXD	Manifold
Matchbox	MongoDB Atlas	NSX-V
Nutanix	Online.net	Open Day Light
OpenAPI	Pass	Puppet CA
PuppetDB	QingCloud	Redshift
RKE	SakuraCloud	SCVMM
Sentry	Sewan	SignalFx

Terraform supports multiple Providers . For this training course we will be mainly focussing on Provider -AWS

Terraform Providers

# TerraformVs Other Tools

- Terraform supports multiple providers : Terraform can be used to orchestrate an AWS , Azure and GCP cluster simultaneously



Terraform Multiple Providers

# Terraform Installation and CLI

Terraform is a CLI Tool and you only need one executable (Golang).

<https://www.terraform.io/downloads.html>

For Linux based Platforms

```
curl -o terraform_0.11.7_linux_amd64.zip https://releases.hashicorp.com/terraform/0.11.7/terraform_0.11.7_linux_amd64.zip
```

THANK YOU