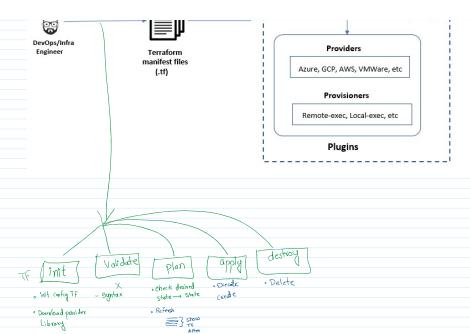


Terraform Architecture aws Terraform plan Terraform apply **Terraform Core** (.tfstate) OPENSHIFT WWWWARE DevOps/Infra Providers Terraform **Cloud Service Providers** manifest files Azure, GCP, AWS, VMWare, etc (.tf) Provisioners Remote-exec, Local-exec, etc Plugins



C:\Paths\terraform151>aws configure
AWS Access Key ID [None]: AKIARKD35RHM5AKIYYW2
AWS Secret Access Key [None]: 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 Default region name [None]: us-east-1 Default output format [None]: json

C:\Paths\terraform151>terraform init

Initializing the backend...

- Initializing provider plugins...
 Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.5.0...
- Installed hashicorp/aws v5.5.0 (signed by HashiCorp)

 $Terraform\ has\ created\ a\ lock\ file\ .terraform.lock.hcl\ to\ record\ the\ provider$ selections it made above. Include this file in your version control repository so that Terraform can guarantee to make the same selections by default when you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see $\,$ any changes that are required for your infrastructure. All Terraform commands

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

CHECK AWS --> S3 --> Buckets

C:\Paths\terraform151>terraform destroy

```
provider "aws" {
access_key = "AKIARKD35RHM5AKIYYW2"
secret_key = "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"
 region = "us-east-1"
resource "aws_s3_bucket" "createbucket1" {
 bucket = "bkt-27jun-mujahed"
terraform {
 required_version = ">= 0.12.26"
```

Cloud Service Providers

value = "Welcome to TF with Baremetal"

output "greeting_msg" {

```
resource "local_file" "create_resume" {
  content = "This is my resume"
                        filename = "abc.txt"
                                                            IaaC
                                 Language
                                                                           Implementation
                                                                              (Manage Resource)
                                  API`
                                                                                                             VPC
                                                                                                                                                        TO6
                                                                                            EC2
                                template
o parameter
                             · resources
                                 providers
· Resources
              YAML
                                                     output
                            main
                                 1) Output of
                                 2) Variable +f
                                 3) main. + F
                       Single File
main.tf
                       resource "aws_instance" "web_server" {
ami = "ami-053b0d53c279acc90"
                        instance_type = "t2.micro"
                       Multiple Files:
METHOD1: ONLY INPUT
                       resource "aws_instance" "web_server" {
ami = var.ami_id # ami-053b0d53c279acc90
instance_type = var.instance_type #t2.micro
```

terraform {

required_version = ">= 1.0.0"

```
variables.tf
variable "ami_id" {
 description = "Please Enter AMI ID for EC2 Instance creation:"
 type = string
variable "instance_type" {
description = "Please Enter Instance Type for EC2 Instance creation:"
 type = string
default = "t2.micro"
METHOD2: INPUT+OUTPUT
main.tf
resource "aws_instance" "web_server" {
 ami = var.ami_id # ami-053b0d53c279acc90
 instance_type = var.instance_type #t2.micro
variables.tf
variable "ami_id" {
 description = "Please Enter AMI ID for EC2 Instance creation:"
 type = string
variable "instance_type" {
description = "Please Enter Instance Type for EC2 Instance creation:"
 default = "t2.micro"
outputs.tf
```

