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Terraform commands

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1 Terraform init: - It is used to initialize the terraform script(.tf file)

. Here it will download the provider related plugins

2 Terraform fmt: - Once the script is ready, we can format the terraform script indent spacing (optional)

3 Terraform validate: - Verify the terraform script syntax. The syntax is valid or not (this is also optional)

4 Terraform plan: - Once the validation is completed, it will create the execution plan for the terraform script. Whatever script we have created, to execute the script it is going to be prepare the planning

5 Terraform apply: - It will create the actual resources in our cloud platform based on the plan

note: Once apply is done one tfstate file will create, to track the resources with our script

6 Terraform destroy: - It is used to delete the resources created with our script

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Terraform script for creating an ec2-instance

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Terraform AWS Documentation: https://registry.terraform.io/providers/hashicorp/aws/latest/docs

# main.tf

provider "aws" {

region = "ap-south-1"

access\_key = "AKIA23WHUC7VOLG46UX6"

secret\_key = "duA6Wxsh0J+j9XfY5H49hqgX+ZLrPzXu/8b4/t/i2"

}

resource "aws\_instance" "scopedindiavm" {

ami = "ami-0dee22c13ea7a9a67"

instance\_type = "t2.micro"

key\_name = "mykeypair"

security\_groups = ["default"]

tags = {

name = "linuxvm"

}

}

$ terraform init

Initialize terraform script

$ terraform validate

Verify terraform script syntax is valid or not

$ terraform fmt

Format terraform script indent spacing

$ terraform plan

Create execution plan for terraform script

# terraform apply

Create ec2-instance resources in cloud based on plan

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What is lock.hcl file

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When we initialize terraform script provider related plugin will be downloaded and automatically lock.hcl file will be created.

Which contains provider name and exact version of the provider that was used.

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What is terraform .tfstate file

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when we initiate terraform apply command it will create the resource based on the script and will create a tfstate file and it will rack of the state of your infrastructure managed by Terraform.