Cloud Infotech Solutions Academy

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- 1.sudo yum install -y yum-utils
- 2. sudo yum-config-manager --add-repo https://rpm.releases.hashicorp.com/AmazonLinux/hashicorp.repo
- 3.sudo yum -y install terraform
- **Test**:
- terraform –version
- Goto aws console , click on IAM – create user – give name terraform – next finish , goto user properties – programtic access – it will generate **access key and secret key ,** copy

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Goto terraform

- 1.create **project dir (ecommerce)**
- **1.write a config script (**main.tf)
- **2.terrraform init <--** which intialize terraform directory & download aws plugins to be ready to communicate to aws
- **3.terraform fmt** < to format terraform code format
- **4.terraform validate** < to validate code syntax errors
- **5.terraform plan** < dry run /simulate build process but not apply to realtime
- **6.terraform apply** < to execute conf. code to start build process in realtime..

- 7. after built it creates **terraform.tfstate** file as current state , it helps to avoid duplicate resources /update incremental resource /destroy only what terraform created...
- 8. **terraform destroy** < to delete all built resources using **terraform.tfstate** file, if file got corrupted it cannot destroy u need to do manually..
- so,its is recommended to keep **tfstate file on remote location** as backend (terraform cloud, s3 ..)

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Connect to terraform linux server –
Create provider.tf and network.tf

—

How to create first .tf file , to create vpc ?

Vi network.tf

```
resource "aws_vpc" "tcsvpc" {
  cidr_block       = "10.0.0.0/16"
  tags = {
    Name = "tcsvpc"
  }
}
```

==

Vi pro-aws.tf

this block to establish comm with aws provider

provider "aws"{

region="us-east-2"

access_key="AKIA6ISKT6ORB6RGCHWG"

secret_key="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"

}

Save and exit ,

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Terraform validate

- #this command use to simulate config file without building it in realtime before realy apply
- **terraform plan** (dry run mode) and **terraform apply**

- Terraform apply : it will check config file and then terraform.tfstate file on second execution to compare and execute
- Terraform destroy : it will check only terraform.tfstate file
- After destroy terraform.tfstate file get empty , to avoid execution again on aws

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hOW TO CRATE SUBNET INF AWS VPC