### **Terraform Basic**

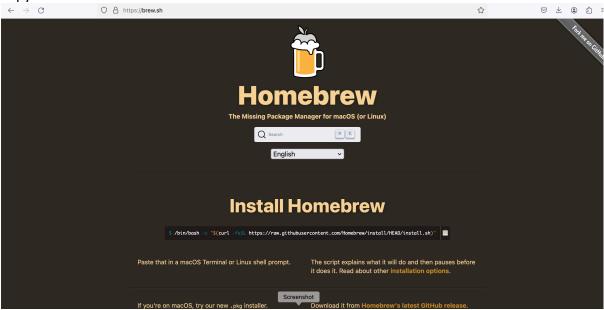
In Mac

Open the terminal in the mac

Go to browser

brew.sh

copy the below curl command and execute in the terminal



search for terraform and use the below command to install terraform

brew install iam-policy-json-to-terraform

Use the below two commands to go forward

Note: (echo ..... && eval...) and execute the command as shown in SS

check for terraform version

terraform -version

# use the below command to access key and password

aws configure

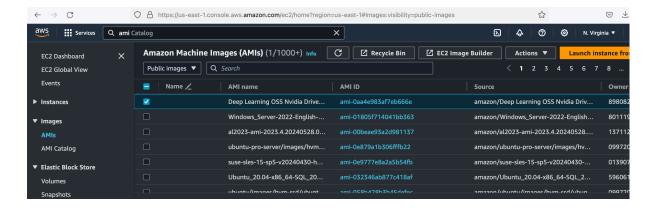
Acces key

Create an mkdir file and switch to it Mkdir terraform Create an vi main.tf use the below

```
terraform {
 required_providers {
  aws = {
   source = "hashicorp/aws"
   version = "~> 4.16"
 }
 }
 required_version = ">= 1.2.0"
}
provider "aws" {
region = "us-east-1"
resource "aws_instance" "app_server" {
          = "ami-0aa4e983af7eb666e"
 instance_type = "t2.micro"
tags = {
  Name = "Terraform_Demo"
}
```

Note: Need to change the below

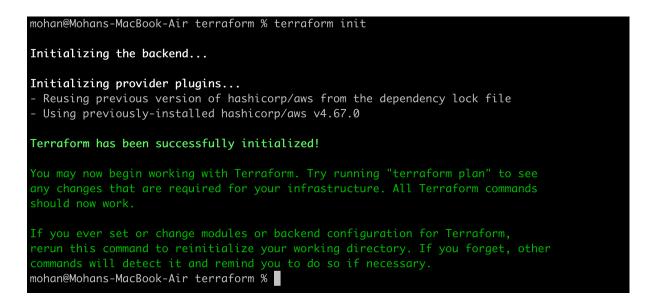
Region as per the aws console Ami available below



Copy them as per the required and use them

Use the below commands to create terraform

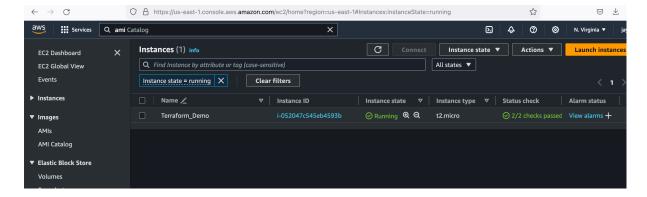
#### Terraform init



Terraform plan

Terraform apply

Go to aws console and check for instance



# Terraform destroy

The above command will terminate all the instance which are created

Done

#### **Terraform Advance**

By me

mkdir terraform-s3-dynamodb cd terraform-s3-dynamodb

Created 3 files

```
mohan@Mohans-MacBook-Air terraform-s3-dynamodb % ls -ltr
total 40
-rw-r--r- 1 mohan staff 244 12 Jun 09:47 outputs.tf
-rw-r--r- 1 mohan staff 489 12 Jun 10:06 main.tf
-rw-r--r- 1 mohan staff 407 12 Jun 10:07 variables.tf
```

### Main.tf

Note: Please change the region as per the required

```
provider "aws" {
  region = "us-west-2"
}

# S3 Bucket
resource "aws_s3_bucket" "my_bucket" {
  bucket = "my-unique-bucket-name-12345"
  acl = "private"

tags = {
  Name = "MyBucket"
```

```
Environment = "Dev"
}
# DynamoDB Table
resource "aws_dynamodb_table" "my_table" {
            = "my-table"
 billing mode = "PAY PER REQUEST"
            = "ID"
 hash_key
 attribute {
  name = "ID"
  type = "S"
 }
 tags = {
  Name
           = "MyDynamoDBTable"
  Environment = "Dev"
}
}
output "s3_bucket_id" {
value = aws_s3_bucket.my_bucket.id
}
output "dynamodb_table_name" {
value = aws dynamodb table.my table.name
}
Variable.tf
Note: Please change the region as per the required
variable "region" {
 description = "The AWS region to deploy resources"
 type
         = string
 default = "us-west-2"
}
variable "s3 bucket name" {
 description = "The name of the S3 bucket"
 type
         = string
 default = "my-unique-bucket-name-12345"
}
variable "dynamodb_table_name" {
 description = "The name of the DynamoDB table"
 type
         = string
```

```
default = "my-table"
outputs.tf
Note: Please change the region as per the required
output "s3_bucket_id" {
 description = "The ID of the S3 bucket"
         = aws_s3_bucket.my_bucket.id
}
output "dynamodb_table_name" {
description = "The name of the DynamoDB table"
value
         = aws_dynamodb_table.my_table.name
}
Use the below to proceed further
terraform init
terraform validate
terraform plan
terraform apply
Done
End of the session use
terraform destroy
```