LAB EXERCISE 5 -PROVISIONING AN S3 BUCKET ON AWS

EXERCISE STEPS:

STEP 1: CREATE A NEW DIRECTORY:

CREATE A NEW DIRECTORY TO STORE YOUR TERRAFORM CONFIGURATION:

```
MKDIR TERRAFORM-S3-DEMO
CD TERRAFORM-S3-DEMO
```

STEP 2: CREATE THE TERRAFORM CONFIGURATION FILE (MAIN.TF):

CREATE A FILE NAMED MAIN.TF WITH THE FOLLOWING CONTENT:

```
TERRAFORM {

REQUIRED_PROVIDERS {

AWS = {

SOURCE = "HASHICORP/AWS"

VERSION = "5.31.0"

}

PROVIDER "AWS" {

REGION = "US-EAST-1" # REPLACE WITH YOUR PREFERRED REGION

ACCESS_KEY = "YOUR IAM ACCESS KEY" # REPLACE WITH YOUR ACCESS KEY

SECRET_KEY = "YOUR SECRET ACCESS KEY" # REPLACE WITH YOUR SECRET KEY

}
```

THIS FILE SETS UP THE TERRAFORM AWS PROVIDER.

STEP 3: CREATE A TERRAFORM CONFIGURATION FILE FOR THE S3 BUCKET (S3.TF):

CREATE ANOTHER FILE NAMED S3.TF WITH THE FOLLOWING CONTENT:

```
RESOURCE "AWS_S3_BUCKET" "MY_BUCKET" {

BUCKET = "MY-DEMO-S3-BUCKET"

TAGS = {

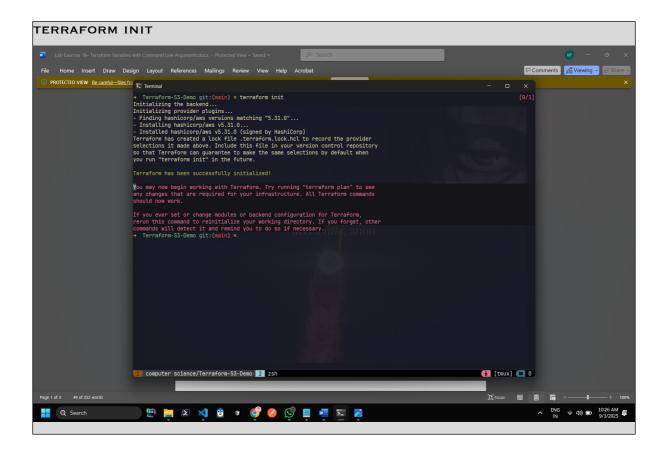
NAME = "TERRAFORM-S3-BUCKET"

}
```

THIS FILE PROVISIONS AN \$3 BUCKET WITH A UNIQUE NAME USING A RANDOM STRING SUFFIX.

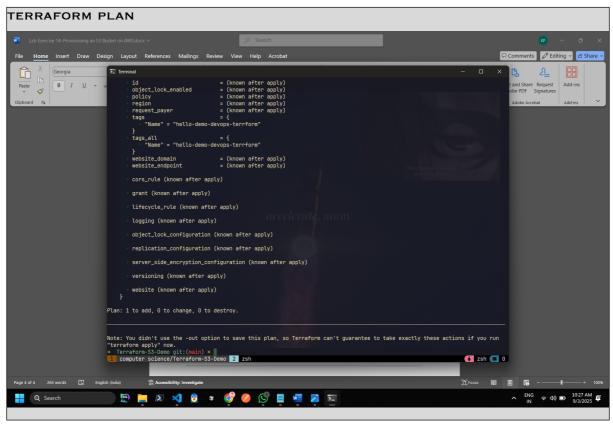
STEP 4: INITIALIZE TERRAFORM:

RUN THE FOLLOWING COMMAND TO INITIALIZE YOUR TERRAFORM WORKING DIRECTORY:



STEP 5: REVIEW THE PLAN:

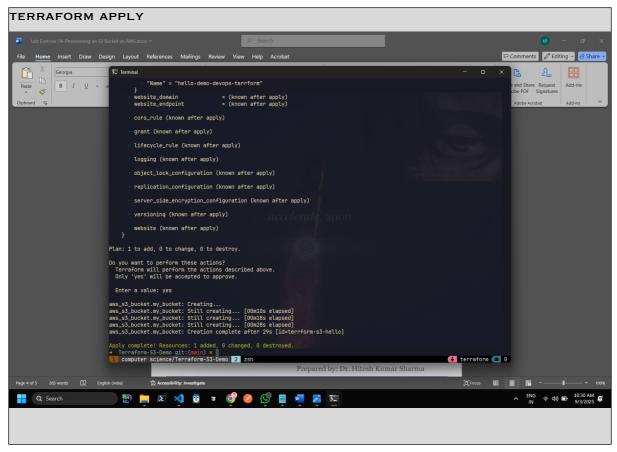
PREVIEW THE CHANGES TERRAFORM WILL MAKE:



REVIEW THE OUTPUT TO ENSURE IT MEETS YOUR EXPECTATIONS.

STEP 6: APPLY THE CHANGES:

CREATE THE RESOURCES:



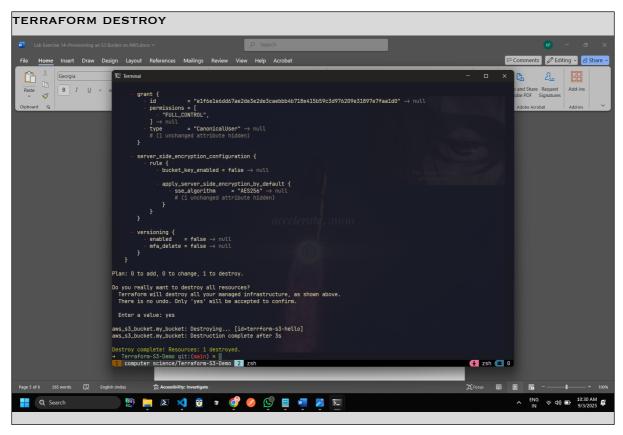
WHEN PROMPTED, TYPE YES TO CONFIRM.

STEP 7: VERIFY RESOURCES:

- 1. LOG IN TO YOUR AWS MANAGEMENT CONSOLE.
- 2. NAVIGATE TO THE S3 DASHBOARD.
- 3. VERIFY THAT THE S3 BUCKET HAS BEEN CREATED WITH THE SPECIFIED CONFIGURATION.

STEP 8: CLEANUP RESOURCES:

TO REMOVE THE RESOURCES CREATED, RUN THE FOLLOWING COMMAND:



WHEN PROMPTED, TYPE YES TO CONFIRM.