Lab Exercise 14 - 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:

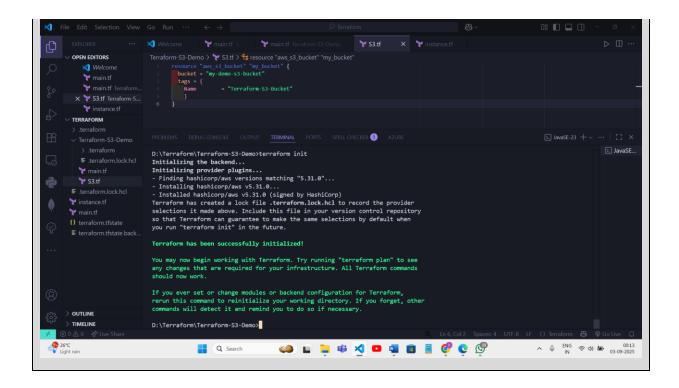
```
resource "aws_s3_bucket" "my_bucket" {
bucket = "my-demo-s3-bucket"
tags = {
Name = "Terraform-S3-Bucket"
}
```

This file provisions an S3 bucket with a unique name using a random string suffix.

Step 4: Initialize Terraform:

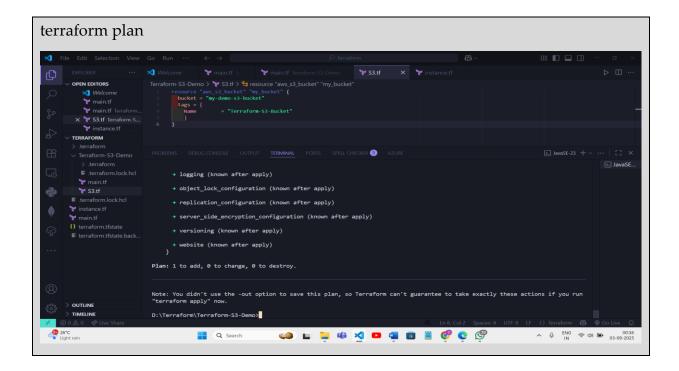
Run the following command to initialize your Terraform working directory:

terraform init



Step 5: Review the Plan:

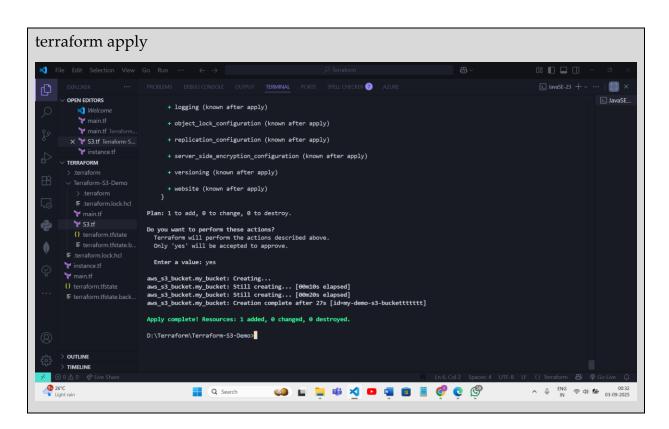
Preview the changes Terraform will make:



Review the output to ensure it meets your expectations.

Step 6: Apply the Changes:

Create the resources:

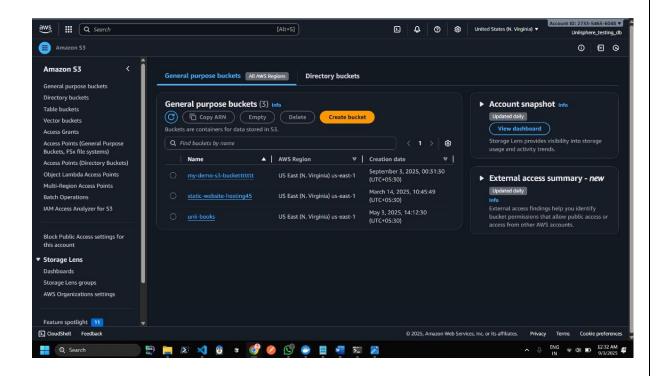


When prompted, type yes to confirm.

Step 7: Verify Resources:

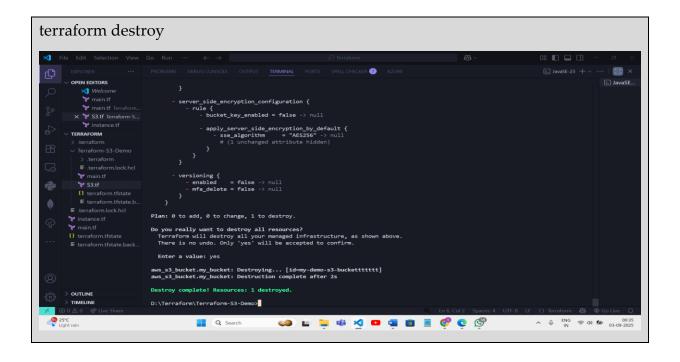
- 1. Log in to your AWS Management Console.
- 2. Navigate to the **S3** dashboard.

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 conf	firm.		