Lab Exercise 5-Provisioning an S3 Bucket on AWS

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Batch- 2

Exercise Steps:

Step 1: Create a New Directory:

Create a new directory to store your Terraform configuration:

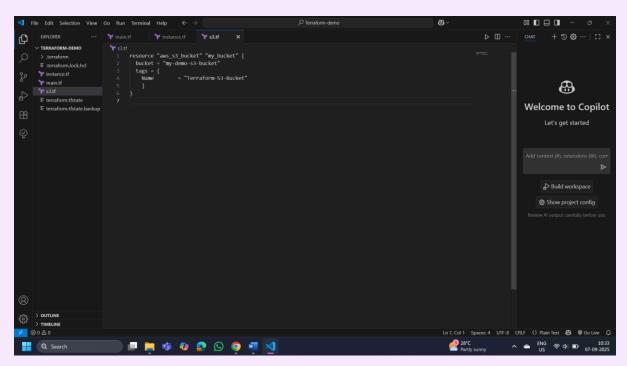
```
mkdir Terraform-S3-Demo cd Terraform-S3-Demo
```

Step 2: Create the Terraform Configuration File (main.tf):

Create a file named main.tf with the following content:

This file sets up the Terraform AWS provider.

Step 3: Create a Terraform Configuration File for the S3 Bucket (s3.tf):

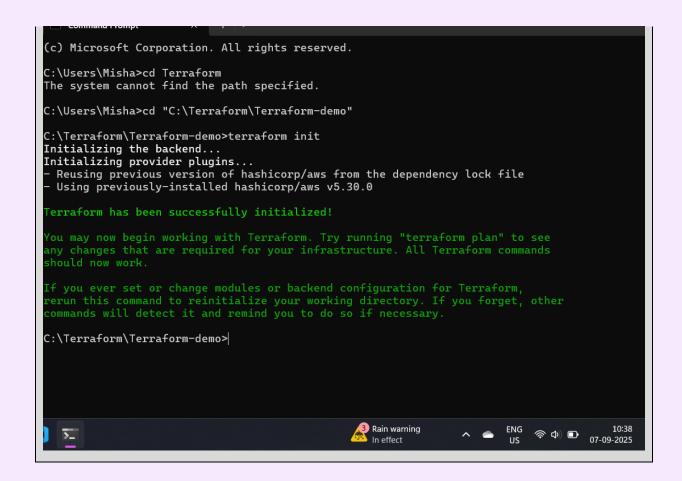


This file provisions an S3 bucket with a unique name using a random string suffix.

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:

terraform plan

```
Command Prompt
C:\Terraform\Terraform-demo>terraform plan
Terraform used the selected providers to generate the following execution plan. Resource
actions are indicated with the following symbols:
   create
Terraform will perform the following actions:
  # aws_instance.My-instance will be created
+ resource "aws_instance" "My-instance" {
       + ami
                                                   = "ami-03f4878755434977f"
                                                   = (known after apply)
      + arn
       + associate_public_ip_address
                                                   = (known after apply)
                                                   = (known after apply)
       + availability_zone
       + cpu_core_count
                                                   = (known after apply)
                                                   = (known after apply)
= (known after apply)
       + cpu_threads_per_core
+ disable_api_stop
       + disable_api_termination
                                                   = (known after apply)
                                                   = (known after apply)
       + ebs_optimized
                                                   = false
         get_password_data
         host_id
                                                   = (known after apply)
                                                   = (known after apply)
= (known after apply)
       + host_resource_group_arn
       + iam_instance_profile
                                                   = (known after apply)
       + id
       + instance_initiated_shutdown_behavior = (known after apply)
                                                     (known after apply)
       + instance_lifecycle
                                                   = (known after apply)

    instance_state

                                                   = "t3.micro"
       + instance_type
       + ipv6 address count
                                                   = (known after applv)
                                                     2 cm of rain
                                                                                                  10:40
                                                                                    令 ゆ ● 07-09-2025
   돗
                                                        Saturday
                                                                                US
```

Step 6: Apply the Changes:

Create the resources:

```
terraform apply

}

Plan: 1 to add, 0 to change, 0 to destroy.

Do you want to perform these actions?

Terraform will perform the actions described above.

Only 'yes' will be accepted to approve.

Enter a value: yes

aws_s3_bucket.my_bucket: Creating...

aws_s3_bucket.my_bucket: Creation complete after 4s [id=demo-s3-bucket-misha-12072005]

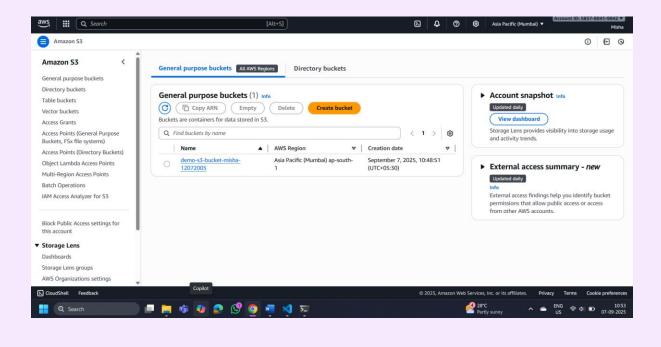
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

C:\Terraform\Terraform-demo>
```

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:

terraform destroy

```
Enter a value: yes

aws_s3_bucket.my_bucket: Destroying... [id=demo-s3-bucket-misha-12072005]

aws_instance.My-instance: Destroying... [id=i-01d82deebfcf1aa35]

aws_s3_bucket.my_bucket: Destruction complete after 1s

aws_instance.My-instance: Still destroying... [id=i-01d82deebfcf1aa35, 00m10s elapsed]

aws_instance.My-instance: Still destroying... [id=i-01d82deebfcf1aa35, 00m20s elapsed]

aws_instance.My-instance: Still destroying... [id=i-01d82deebfcf1aa35, 00m30s elapsed]

aws_instance.My-instance: Still destroying... [id=i-01d82deebfcf1aa35, 00m40s elapsed]

aws_instance.My-instance: Still destroying... [id=i-01d82deebfcf1aa35, 00m50s elapsed]

aws_instance.My-instance: Destruction complete after 51s

Destroy complete! Resources: 2 destroyed.

C:\Terraform\Terraform-demo>

C:\Terraform\Terraform-demo>
```

When prompted, type yes to confirm.