**Lab Exercise 13–Provisioning an EC2 Instance on AWS**

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**Batch- 1**

## Exercise Steps:

**Step 1: Create a New Directory:**

Create a new directory for your Terraform configuration:

## “Terraform-Demo”

**Step 2: Create 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 = "ap-south-1"

access\_key = "your IAM access key" secret\_key = "your secret access key"

}

This script defines an AWS provider and provisions an EC2 instance.

## Step 3: Initialize Terraform:

Run the following command to initialize your Terraform working directory:

**terraform init**

## Step 4: Create Terraform Configuration File for EC2 instance (instance.tf):

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

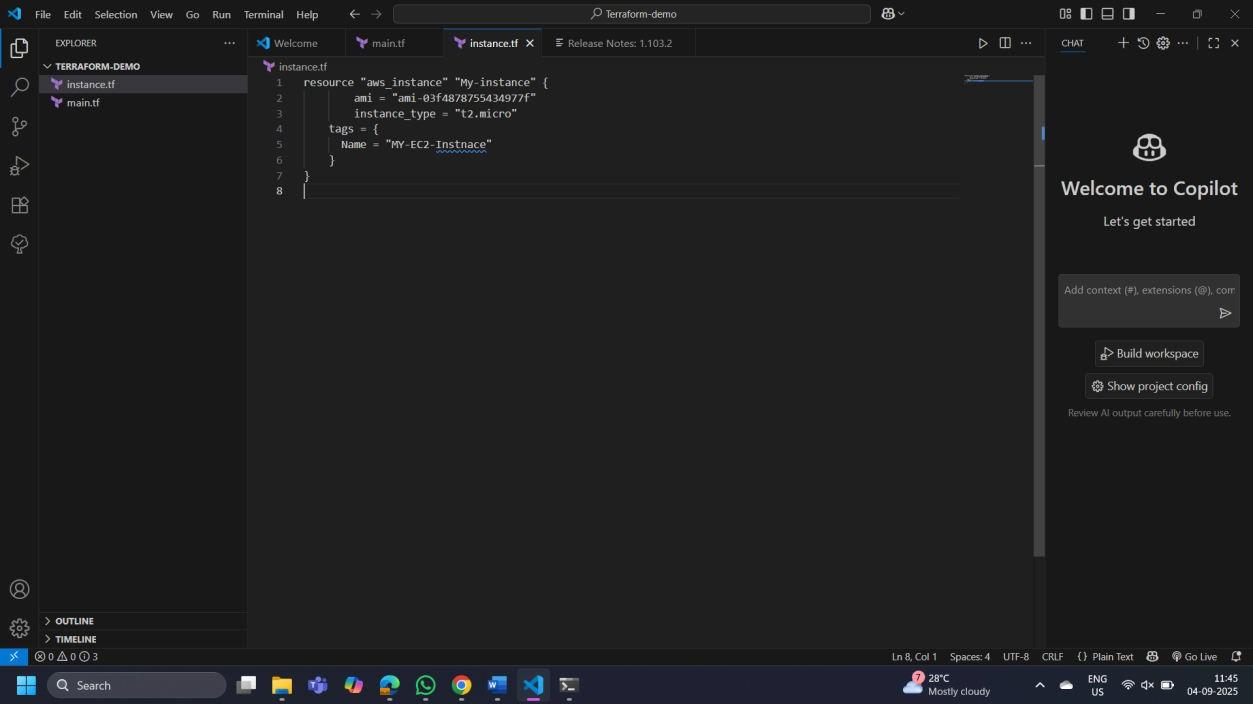
resource "aws\_instance" "My-instance" { ami = "ami-03f4878755434977f"

instance\_type = "t2.micro" tags = {

Name = "MY-EC2-Instnace"

}

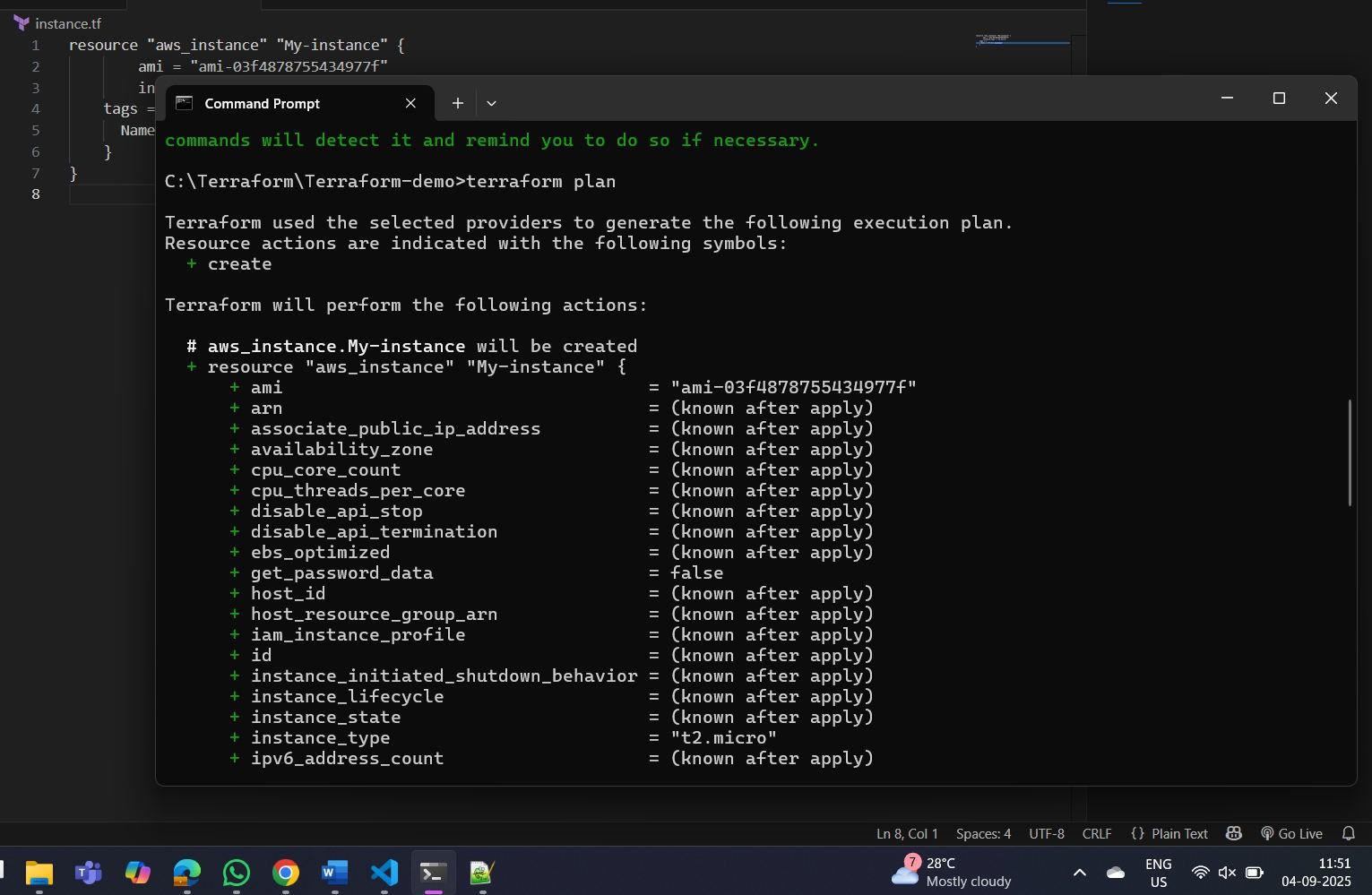
}



## Step 5: Review Plan:

Run the following command to see what Terraform will do:

terraform plan

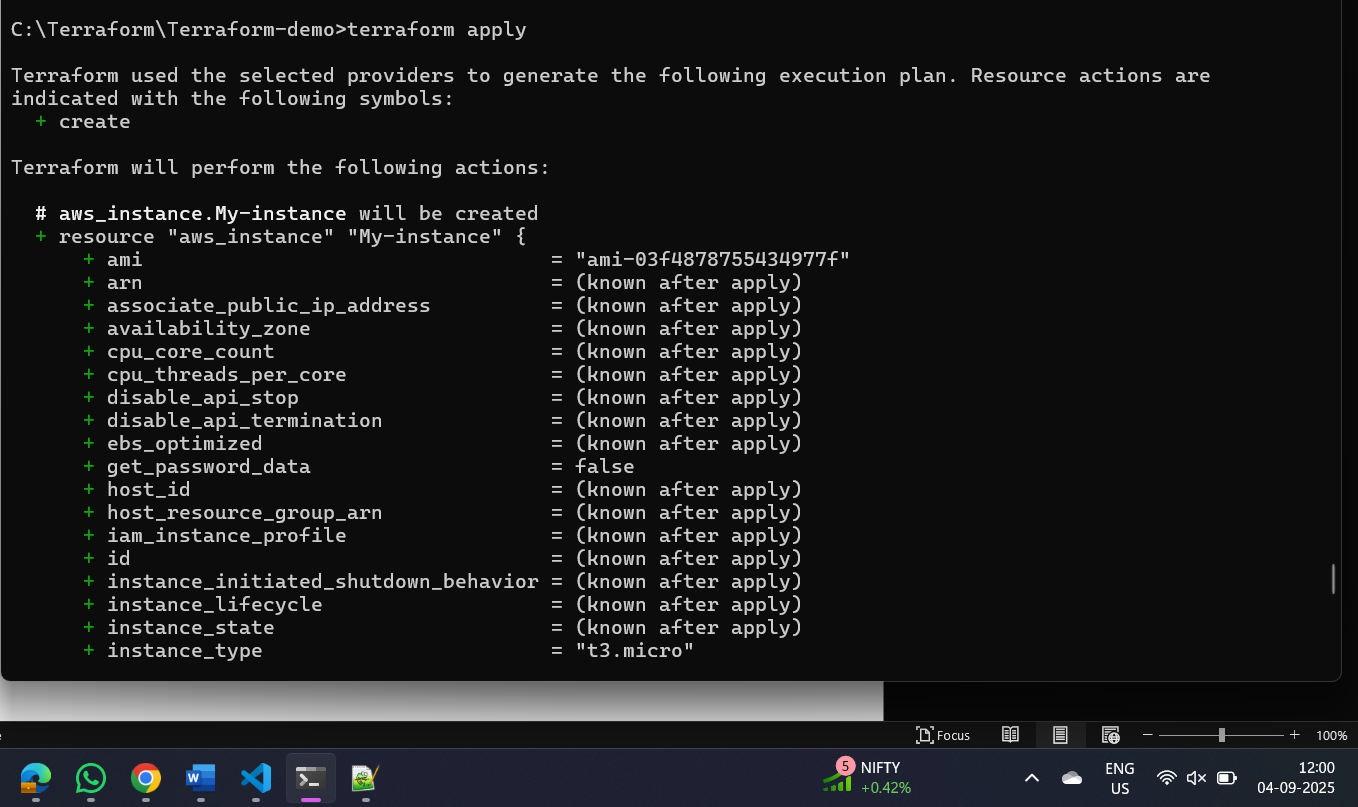


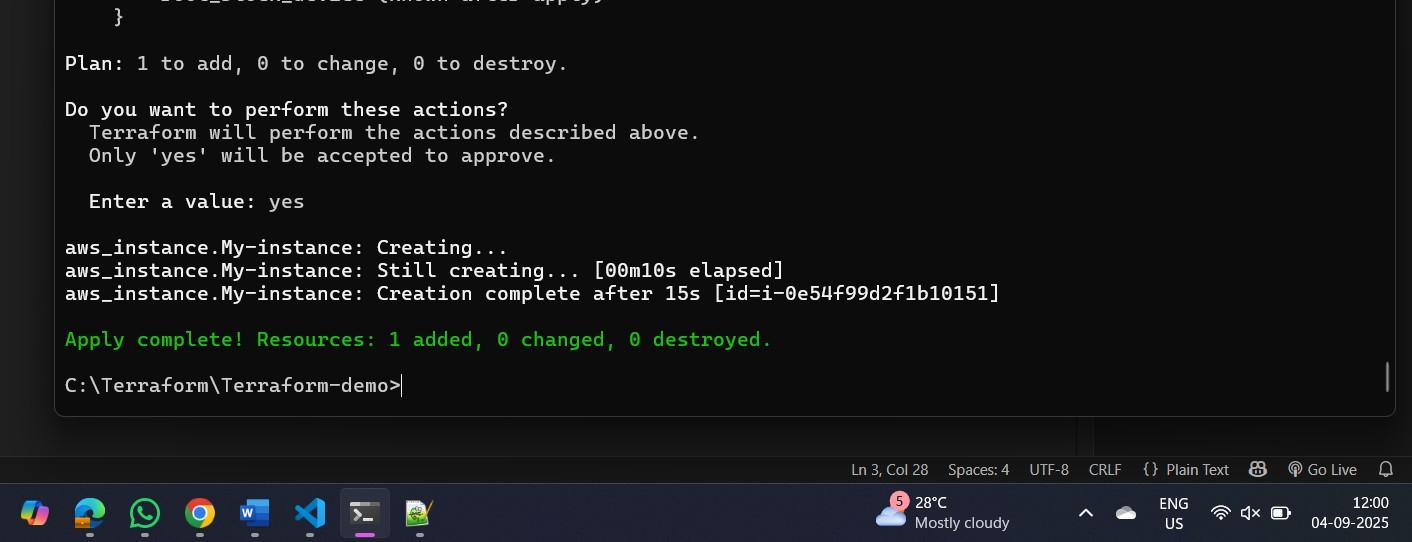
Review the plan to ensure it aligns with your expectations.

## Step 6: Apply Changes:

Apply the changes to create the AWS resources:

terraform apply

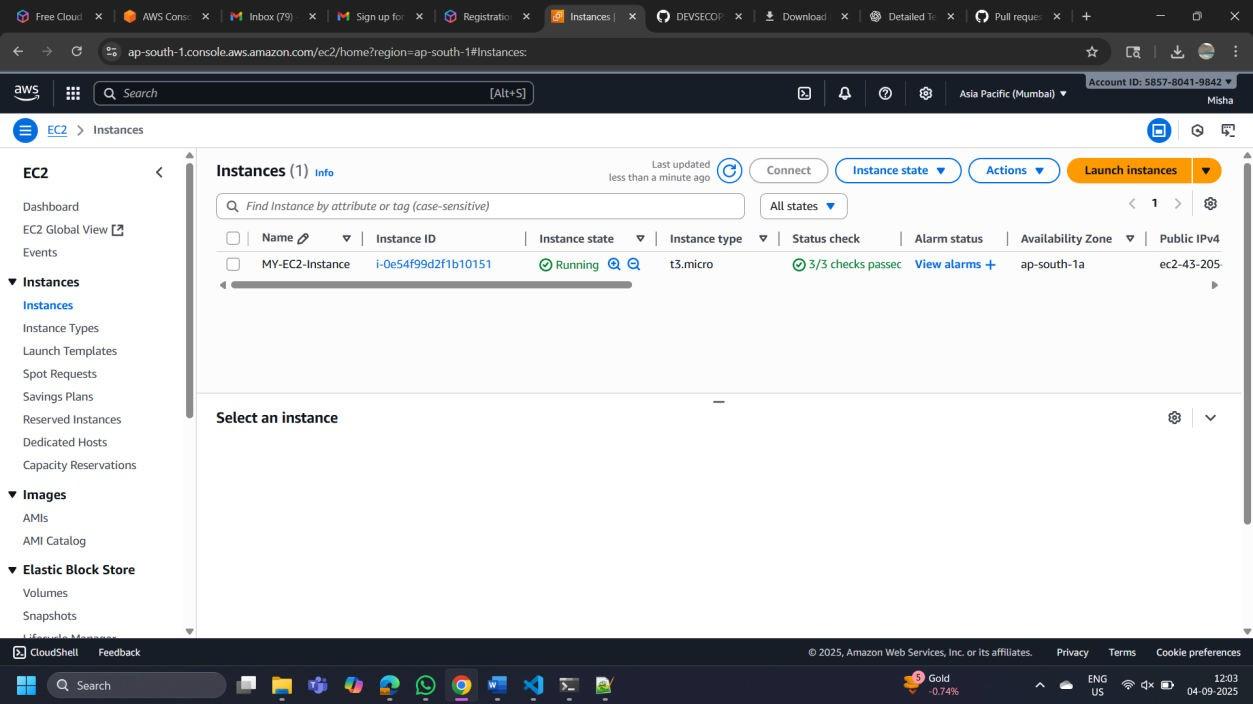




Type yes when prompted.

## Step 7: Verify Resources:

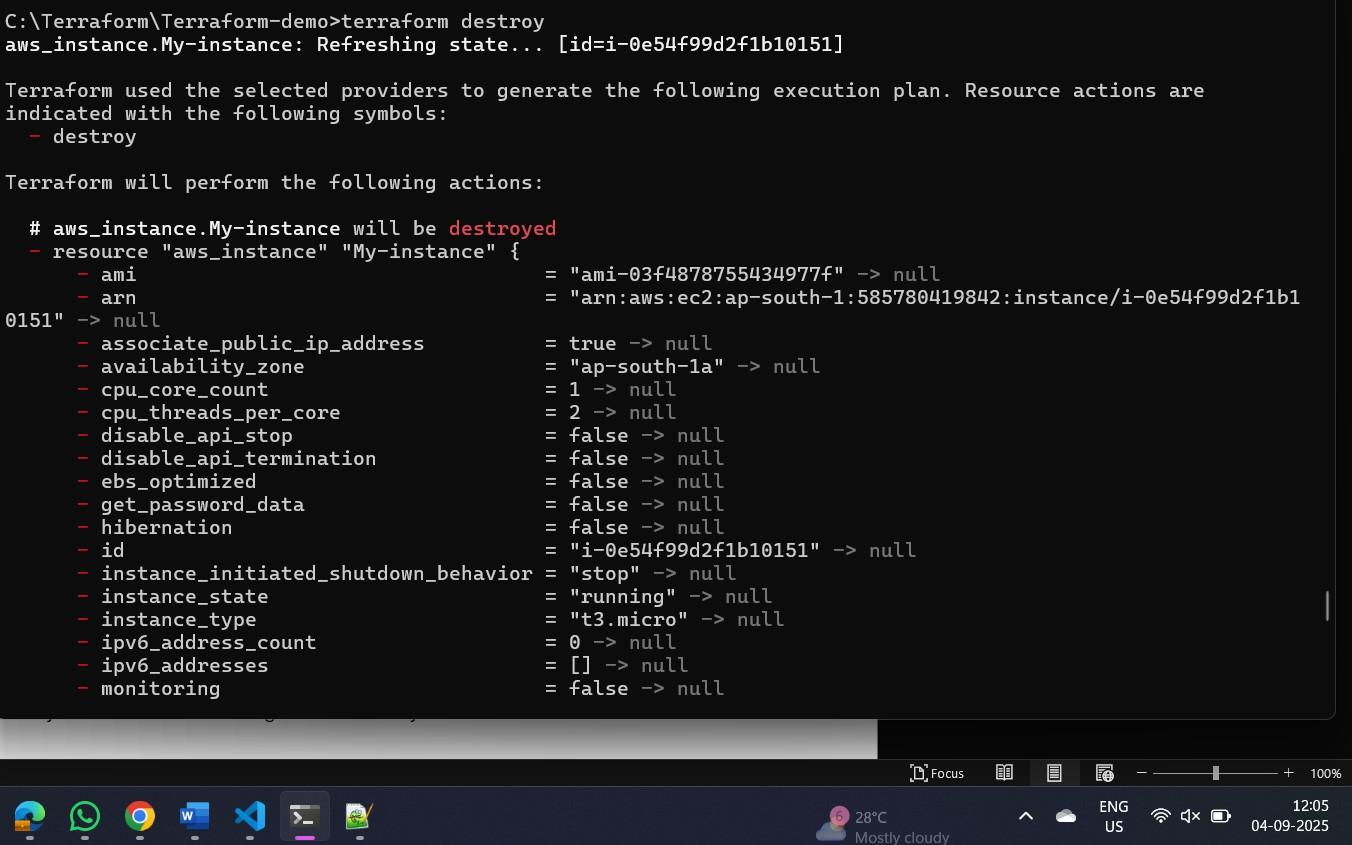
After the terraform apply command completes, log in to your AWS Management Console and navigate to the EC2 dashboard. Verify that the EC2 instance has been created.

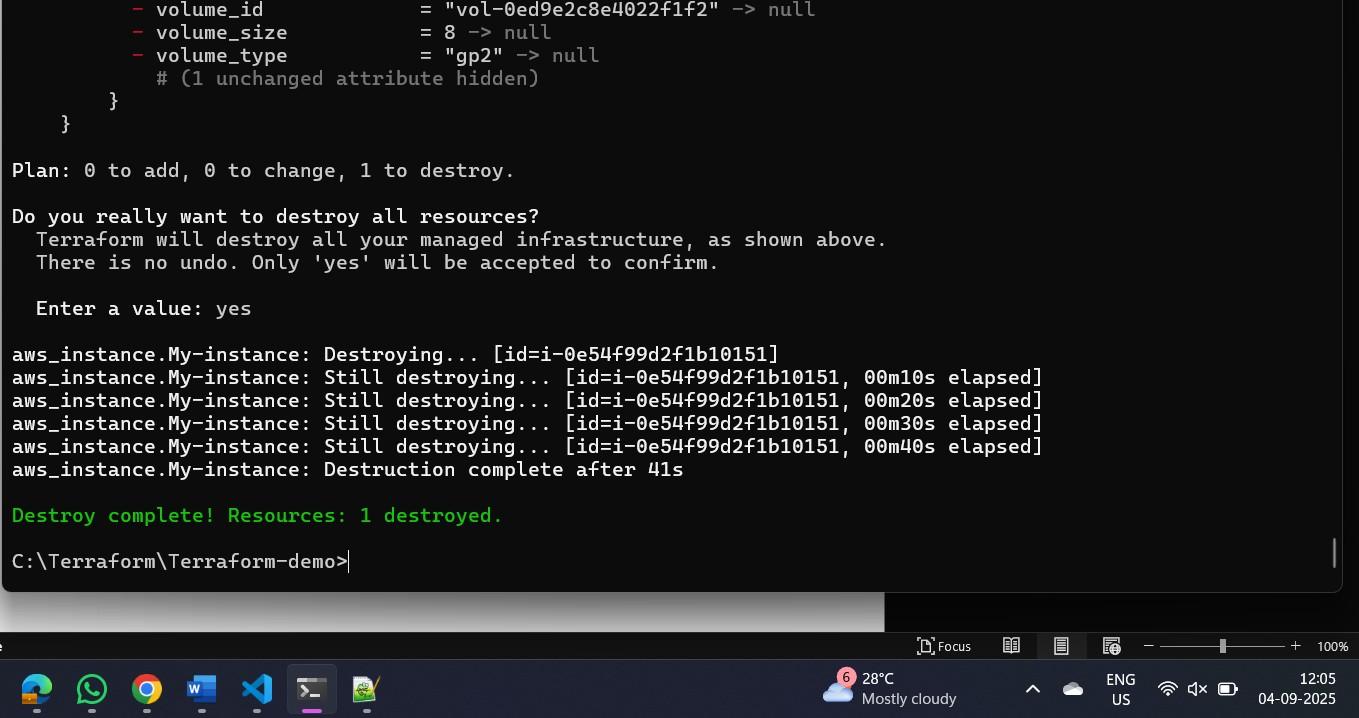


## Step 8: Cleanup Resources:

When you are done experimenting, run the following command to destroy the created resources:

terraform destroy





Type yes when prompted. Notes:

Customize the instance.tf file to provision different AWS resources.

Explore the Terraform AWS provider documentation for additional AWS resources and configuration options.

Always be cautious when running terraform destroy to avoid accidental resource deletion.

This exercise provides a basic introduction to using Terraform with the AWS provider. Feel free to explore more complex Terraform configurations and resources based on your needs.