Deploying a VM in AWS Using the Terraform Workflow

Description

In this hands-on lab, we will be following the Terraform workflow — Write > Plan > Apply — to deploy a virtual machine (VM) in AWS. After a successful deployment, we will then clean up our infrastructure and destroy the resource we created.

Objectives

Successfully complete this lab by achieving the following learning objectives:

Create a Directory and Write Your Terraform Code (Write)

1. Create a new directory in the cloud\_user's home directory to house your Terraform code called terraform\_code.
2. Create a new file for your code called main.tf.
3. Add the provided code for creating your VM (as an EC2 instance in AWS) to the main.tf file.

Plug the Provided AMI and Subnet ID Values Into Your Code

1. Copy the AMI and subnet ID for the VM that have been saved in the resource\_ids.txt file on the lab server.
2. Paste these values into your code in the main.tf file.

Initialize and Review Your Terraform Code (Plan)

1. Initialize your Terraform configuration with the terraform init command.
2. Review the actions that will be performed when code is deployed using the terraform plan command.

Deploy Your Terraform Code (Apply), Verify Your Resources, and Clean Up

1. Deploy the code with the terraform apply command.
2. Verify that your resource was created as intended in the AWS Management Console.
3. Tear down the infrastructure using the terraform destroy command.
4. Verify that your resource was destroyed and removed in the AWS Management Console.

