

# **Lab Exercise 3 – Terraform IAM User Setting**

**Prerequisites:** Terraform Installed: Make sure you have Terraform installed on your machine. Follow the official installation guide if needed.

**AWS Credentials:** Ensure you have AWS credentials (Access Key ID and Secret Access Key) configured. You can set them up using the AWS CLI or by setting environment variables.

## **Exercise Steps:**

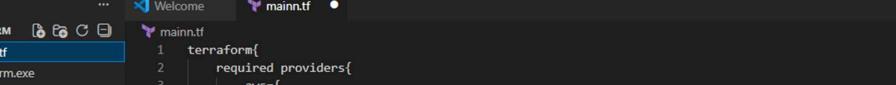
## **Step 1: Create a New Directory:**

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:



The screenshot shows the Visual Studio Code interface with the Terraform extension open. The Explorer sidebar on the left has a 'TERRAFORM' section expanded, showing files 'mainn.tf' and 'terraform.exe'. The main editor area displays the 'mainn.tf' file content:

```
1 terraform{  
2     required_providers{  
3         aws={  
4             source="hashicorp/aws"  
5             version="5.31.0"  
6         }  
7     }  
8 }  
9  
10 provider "aws" {  
11     region      = "ap-south-1"  
12     access_key  = "AKIARONNSQQTCJ5RXU2"  
13     secret_key  = "oNLE9R3r3TOCh+1cNK8/nL85x0BJKZE80YHftY5q"  
14 }  
15 }
```

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

The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a tree view with a selected file named `main.tf`.
- Editor:** Displays the contents of the `main.tf` file, which defines an AWS provider with specific region, access key, and secret key.
- Terminal:** Shows the command `PS C:\terraform> terraform init` being run, followed by the output: "Initializing the backend...", "Initializing provider plugins...", and "Terraform has been successfully initialized!".
- Bottom Status Bar:** Includes icons for outline, timeline, and code pets, along with a status message showing 0 changes.