**School of Computer Science**

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

**DEHRADUN, UTTARAKHAND**



**System Provisioning and Configuration Management**

**Lab File (2022-2026)**

# **6th Semester**

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**EXPERIMENT 2**

**Lab Exercise: Terraform AWS Provider and 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.

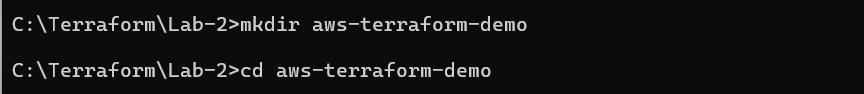
**Exercise Steps:**

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

Create a new directory for your Terraform configuration:

**mkdir aws-terraform-demo**

**cd aws-terraform-demo**

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**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" {**

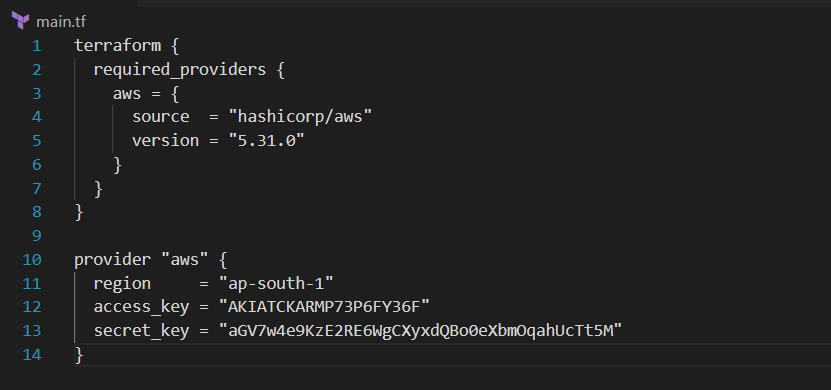
**region     = "ap-south-1"**

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

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

**}**

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

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**Step 3: Initialize Terraform:**

Run the following command to initialize your Terraform working directory:

**terraform init**

