System Provisioning and Configuration Management LAB

SUBMITTED TO

Dr. Hitesh Kumar Sharma

SUBMITTED BY

Siddharth Agarwal

500107594

R2142220663

Btech CSE DevOps B1

Lab Exercise 2– 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:

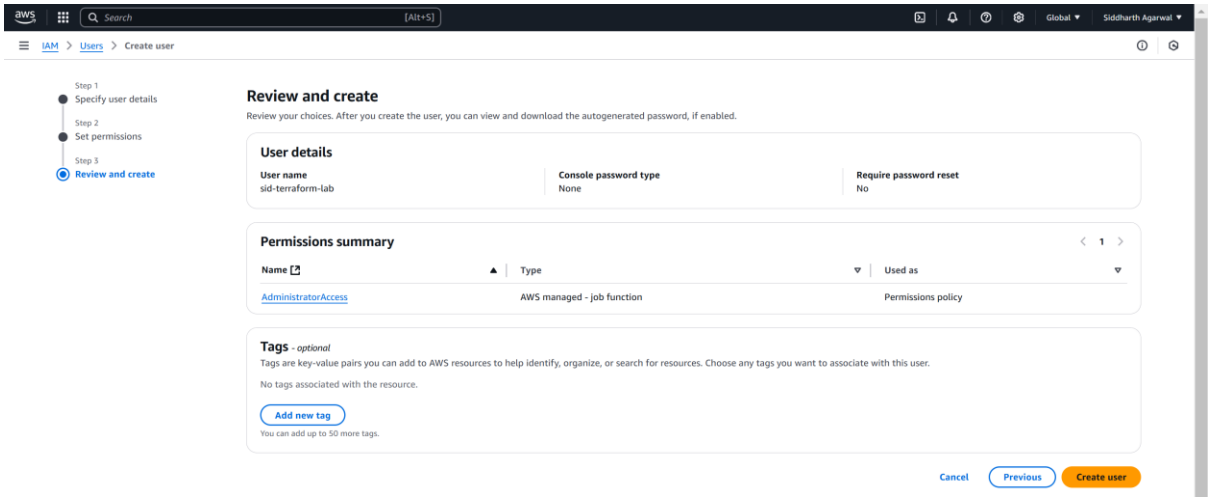
```
mkdir aws-terraform-demo

cd aws-terraform-demo
```

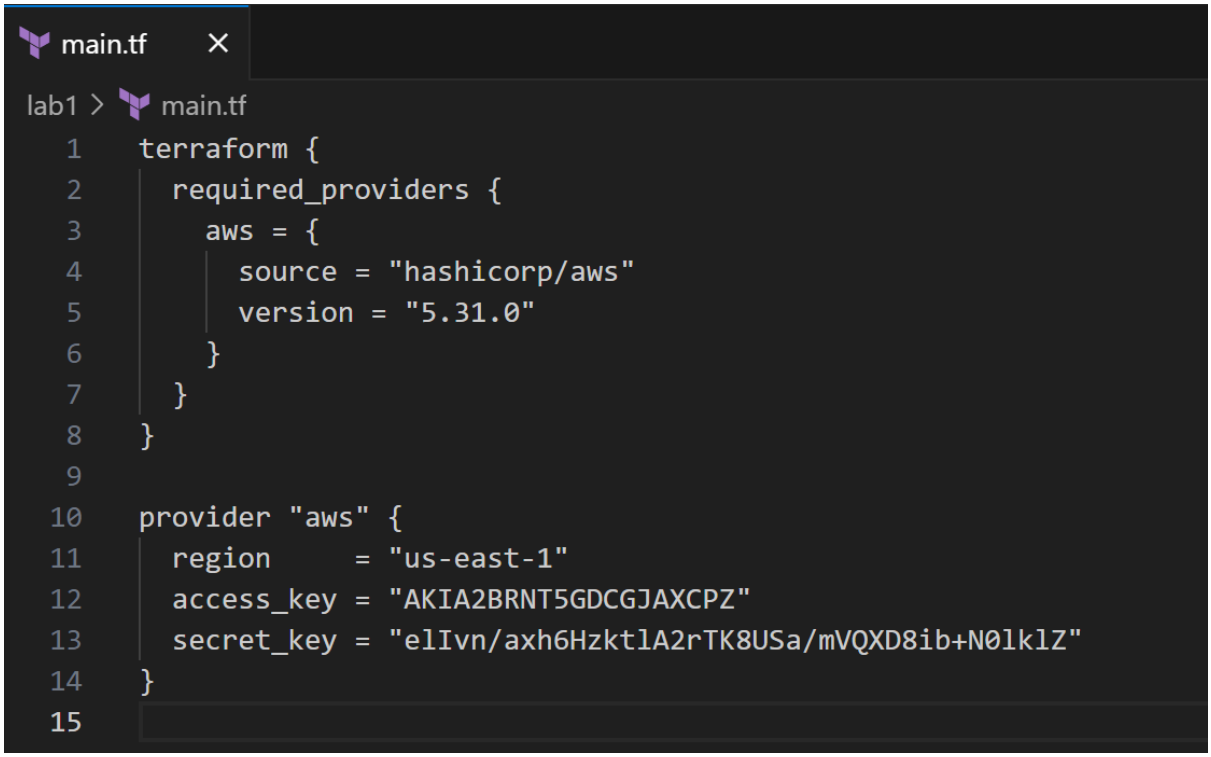
Step 2: Create Terraform Configuration File (main.tf):

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
```