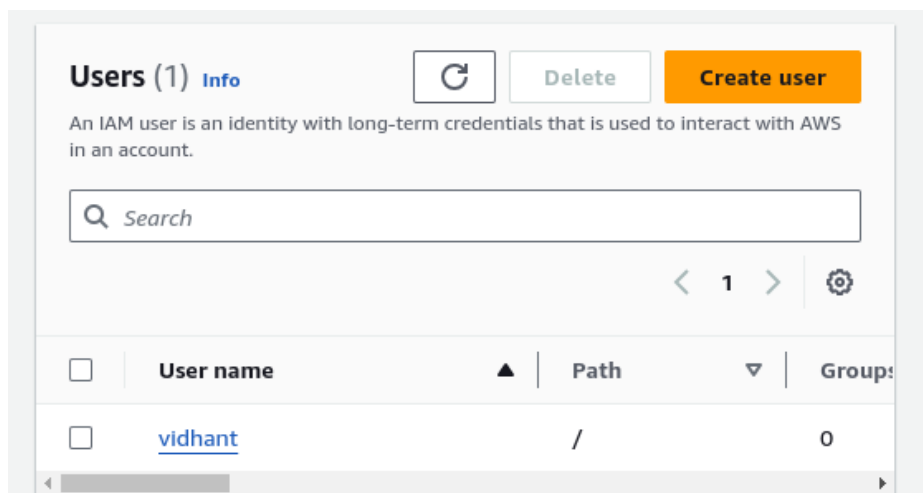# SPCM Lab-2

Objective : Terraform AWS provider and IAM User Setting.

1. In order to provision resources on a cloud provider such as AWS, we need to create an IAM user and create the Access ID and Secret ID associated with that IAM user.
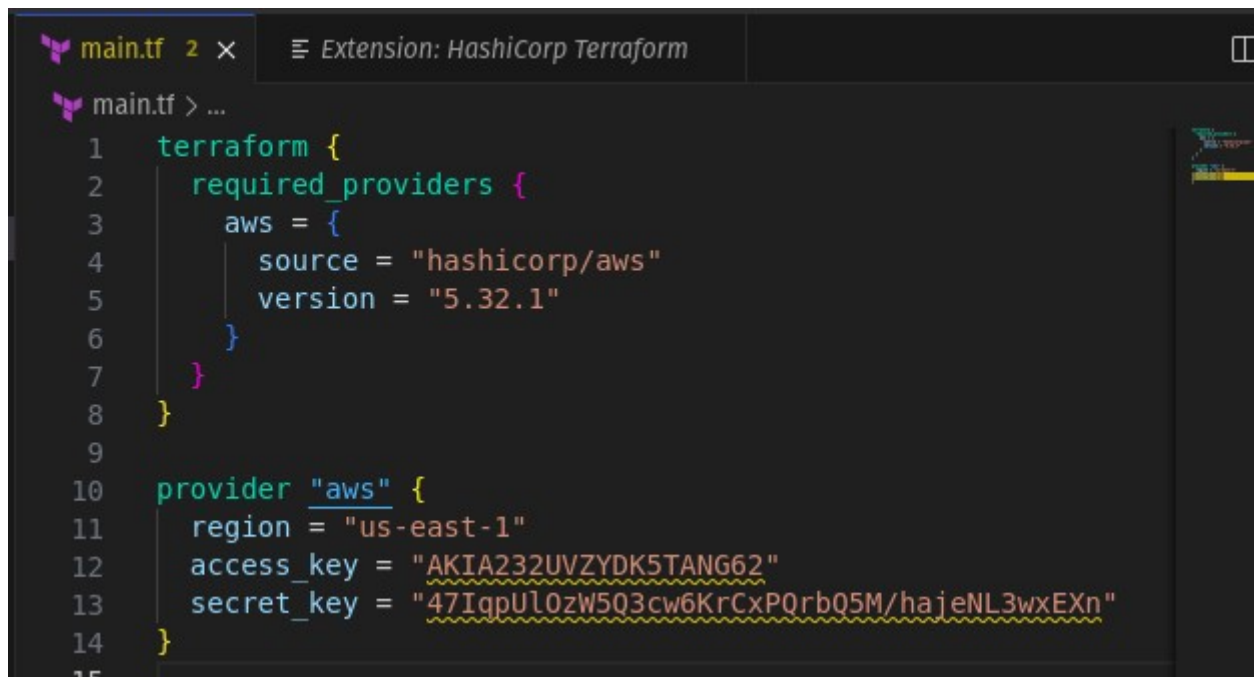
(a) Create IAM role and assign privileages.

(b) Create Access ID and Secret ID. Go to Users → your User → Security credentials → create Access keys → CLI.
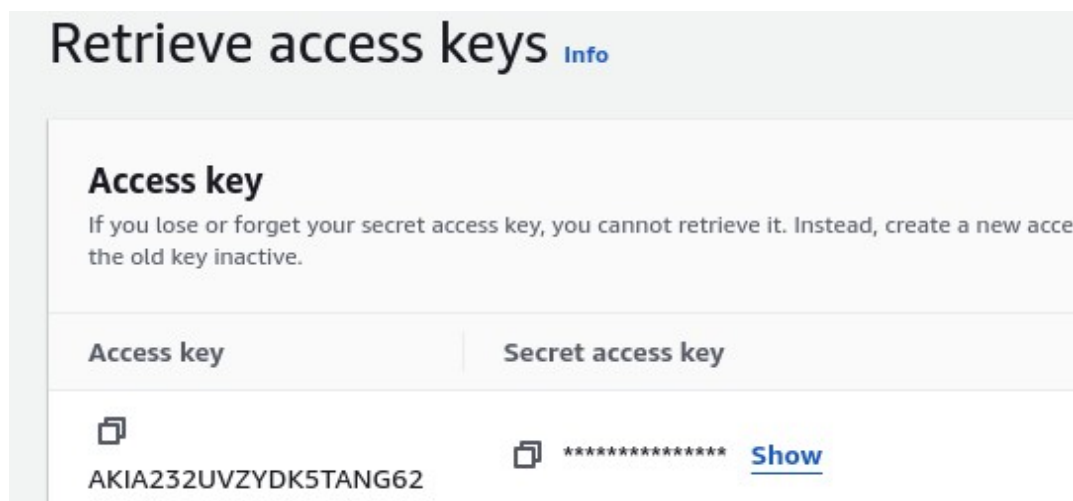
2. Now, create and Initialize a terraform repository on your local Machine.

(a) Create a main.tf file and configure your cloud provider using the Access ID and Secret ID

```hcl
terraform {
  required_providers {
    aws = {
      source  = "hashicorp/aws"
      version = "5.32.1"
    }
  }
}

provider "aws" {
  region     = "us-east-1"
  access_key = "AKIA232UVZYDK5TANG62"
  secret_key = "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"
}
```

(b) Initialize Terraform :

```
vidhant@psyches-safehouse:~/Documents/Terraform/Lab-2$ terraform init

Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.32.1"...
- Installing hashicorp/aws v5.32.1...
- Installed hashicorp/aws v5.32.1 (signed by HashiCorp)

Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

Terraform has been successfully initialized!
```