Lab Exercise 7— Creating Multiple IAM Users in Terraform

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B. Tech. CSE-DevOps – B1, 6th SEM

1. Create Terraform Configuration Files

```
main.tf
 TERRAFORM-IAM-USER
                                                         1 terraform {
 > .terraform
source = "hashicorp/aws"
                                                                                                  version = "5.31.0"
resource.tf
{} terraform.tfstate

    ■ terraform.tfstate.back...

                                                               provider "aws" {

region = "ap-south-1"

access_key = "AKIATQMU37PQBDMOBLE2"

secret_key = "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"
                                                                   main.tf
                                                                                                                       Y resource.tf X Y variable.tf
 TERRAF... [ ☐ ☐ Terrafe... The property of th
                                                                            1 resource "aws_instance" "UPES"{
 > .terraform
                                                                                               ami = var.ami
 instance_type = var.instance_type
 resource.tf
                                                                                              tags = {
{} terraform.tfstate
                                                                                                       Name = "My-EC2-Instance"

    ■ terraform.tfstate.back...

🔭 variable.tf
   TERRAF... 📭 🛱 ひ 🗗 🦖 variable.tf > ધ variable "instance_type" > 🖃 type
                                                                                1 variable "ami" {
    > .terraform
                                                                                                 type = string
    default = "ami-03f4878755434977f"
   main.tf
   resource.tf
  {} terraform.tfstate
                                                                                             variable "instance_type" {
                                                                                    7 | type = string

    ■ terraform.tfstate.back...

                                                                                                  default = "t2.micro"
  variable.tf
                                                                                 11 variable "iam_users" {
                                                                                                  type = list(string)
                                                                                                   default = ["user1", "user2", "user3"]
```

2. Define a list variable iam_users containing the names of the IAM users we want to create

```
resource.tf X variable.tf
TERRAF... [] E] U =
                        🍞 resource.tf > ધ resource "aws_instance" "UPES"
                          1 resource "aws instance" "UPES"{
> .terraform
                                ami = var.ami

    ■ .terraform.lock.hcl

                                instance type = var.instance type
main.tf
resource.tf
                                tags = {
{} terraform.tfstate
                                   Name = "My-EC2-Instance"

    ■ terraform.tfstate.back...

yariable.tf
                               resource "aws_iam_user" "iam_users" {
                                count = length(var.iam_users)
                                name = var.iam_users[count.index]
                               tags = {
Name = "${var.iam_users[count.index]}-user"
```

3. Initialize & Apply

terraform apply

```
PS D:\DevOps\LAB\SPCM\TERRAFORM-SCRIPTS\TERRAFORM-IAM-USER> terraform
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following
    + create
 Terraform will perform the following actions:
    # aws_iam_user.iam_users[0] will be created
+ resource "aws iam user" "iam users" {
      resource "aws_iam_user
+ arn = (k
        + tags = {
+ "Name" = "user1-user"
         + unique_id = (known after apply)
   # aws_iam_user.iam_users[1] will be created
+ resource "aws_iam_user" "iam_users" {
+ arn = (known after apply)
+ force_destroy = false
                              = (known after apply)
= "user2"
= "/"
         + id
         + name
           path
           tags = {
+ "Name" = "user2-user"
```

```
public_fis = (cnown after apply)
public_fip = (cnown after apply)
secondary_private_ips = (cnown after apply)
secondary_private_ips = (cnown after apply)
secondary_private_ips = (cnown after apply)
source_dest_check = true
spot_instance_request_id = (cnown after apply)
submet_id = (known after apply)
tags_all = ("nown after apply)
tenancy = (known after apply)

Plant 4 to add, 0 to change, 0 to destroy.

mo_im_user_lam_users[0]: creating...
mo_im_user_lam_users[0]: creati
```

3. Verify Users in AWS Console

