# Lab Exercise 10– Creating Mu Terraform

## **Objective:**

Learn how to use Terraform to create multiple IAM

## **Prerequisites:**

- Terraform installed on your machine.
- AWS CLI configured with the necessary credenti

## Steps:

## 1. Create a Terraform Directory:

## mkdir terraform-iam-users cd terraform-iam-users

```
(base) → terraform-ec2-for-each-lab9 gi
(base) → MyLab git:(main) × mkdir terra
(base) → MyLab git:(main) × cd terrafor
(base) → terraform-iam-users-lab10 git:
(base) → terraform-iam-users-lab10 git:
```

- Create Terraform Configuration Files:
- Create a file named main.tf:

#### # iam.tf

```
variable "iam_users" {
type = list(string)
 default = ["user1", "user2", "user3"]
}
resource "aws_iam_user" "iam_users" {
 count = length(var.iam_users)
 name = var.iam_users[count.index]
tags = {
 Name = "${var.iam_users[count.index]}"
}
}
```

```
se) 🔊 terraform-iam-users-lab1
ariable iam_users
variable "iam_users"
  type = [Ujjwaluser1]
  default ["Ujjwaluse1,'Ujjwalı
esource "aws_iam_uer" 'iam_use
  count = length(var.iam_user)
    tags = "$var.iam_users(cour
```

configuration, we define a list variable iam.

AM users we want to create. The aws\_iam.

reate users based on the values in the list.

### 2. Initialize and Apply:

Run the following Terraform commands to initialize and

### terraform init

### terraform apply

```
(base) → terraform-iam-users-lab10 git:(main) × ter
Initializing the backend...
```

Initializing provider plugins...

- Finding hashicorp/aws versions matching "5.68.0"..
- Installing hashicorp/aws v5.68.0...
- Installed hashicorp/aws v5.68.0 (signed by HashiCo Terraform has created a lock file .terraform.lock.hc selections it made above. Include this file in your so that Terraform can guarantee to make the same sel you run "terraform init" in the future.

#### Terraform has been successfully initialized!

You may now begin working with Terraform. Try runnin any changes that are required for your infrastructur should now work.

If you ever set or change modules or backend configurerun this command to reinitialize your working dire commands will detect it and remind you to do so if n (base) → terraform-iam-users-lab10 git:(main) ×

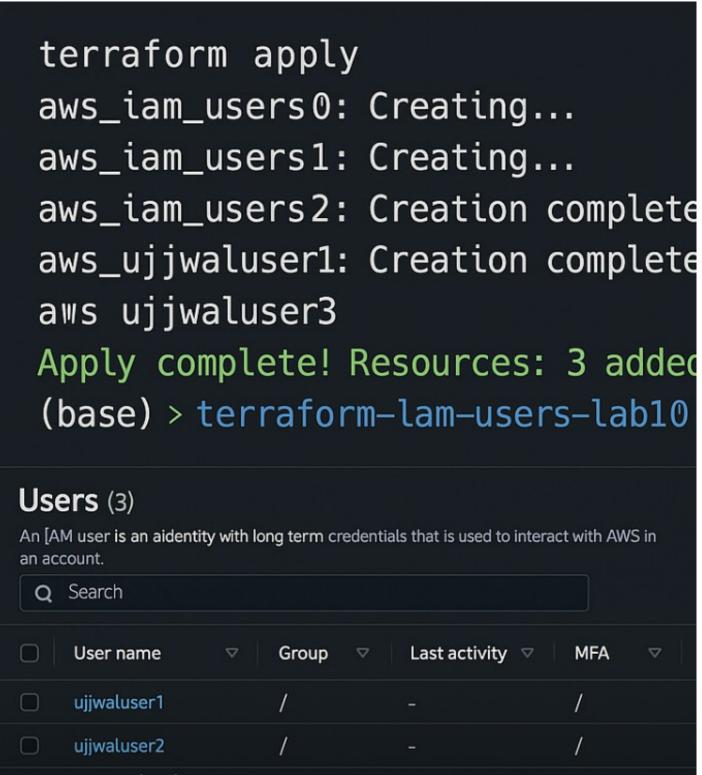
Terraform will prompt you to confirm the creation of I Enter.

## 3. Verify Users in AWS Console:

- Log in to the AWS Management Console and navigat
- Verify that the IAM users with the specified names a

### 4. Update IAM Users:

- If you want to add or remove IAM users, modify the file.
- Rerun the terraform apply command to apply the ch



6. Conclusion:

This lab exercise demonstrates how to create multiple Terraform. The use of variables and loops allows you to creation of IAM users. Experiment with different user main.tf file to understand how Terraform provision configuration.