# LAB-7

## Creating Multiple IAM Users in Terraform

Step 1: Create a new Terraform IAM Users directory

```
~/Documents/SPCM/Terraform v1.7.1default as 

→ mkdir Terraform-IAM-Users

~/Documents/SPCM/Terraform v1.7.1default as 

→ cd Terraform-IAM-Users

~/Documents/SPCM/Terraform/Terraform-IAM-Users as 

→
```

## Step 2: Create a main.tf file

```
🍟 main.tf
main.tf
  1 terraform {
       required providers {
         aws = {
          source = "hashicorp/aws"
           version = "5.35.0"
    provider "aws" {
      region = "ap-south-1"
        access key =
       secret key =
 16 variable "iam users"{
       type =list(string)
          default= ["user1", "user2", "user3"]
 18
 21 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"
```

# Step 3: Initialize and plan

```
-/Documents/SPCK/Terraform/Terraforn-IAM-Users  vi.7.idefault as  literaform inti

Initializing provider plugins...

Finding hashiccorp/aws versions matching "5.35.0"...

Installing hashiccorp/aws vi.35.0 (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 conjugation in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change nodules or backend configuration for Terraform, reruin this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

-/Documents/SPCK/Terraform/Terraform-IAM-Users  vi.7.idefault as  took is success! The configuration is valid.

-/Documents/SPCK/Terraform/Terraform-IAM-Users  vi.7.idefault as  took is success! The configuration is valid.

-/Documents/SPCK/Terraform/Terraform-IAM-Users  vi.7.idefault as  took is success! The configuration is valid.

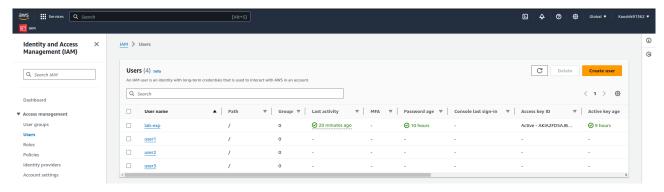
-/Documents/SPCK/Terraform/Terraform-IAM-Users  vi.7.idefault as  took is success! The configuration is reliable to generate the following execution plan. Resource actions are indicated with the following symbols:

**resource sww.jam.user.** is users[0] will be created

**resource
```

#### Step 4: Apply

#### Step 5: Verify Users in AWS Console



#### Step 6: Add or remove IAM user

Modify the main.tf file to add or remove users the rerun terraform apply command to apply changes

```
🍟 main.tf
          ×
main.tf
      terraform {
        required providers {
          aws = {
             source = "hashicorp/aws"
             version = "5.35.0"
        }
      provider "aws" {
        region = "ap-south-1"
        access key = "AKIA2FD5AJBR2NUSDMTH"
        secret key = "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"
      variable "iam users"{
           type =list(string)
          default= [["user a", "user b", "user3"]]
 18
      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"
```

```
Plan: 0 to add, 3 to change, 0 to destroy.

Do you want to perform these actions?

Terraform will perform the actions described above.

Only 'yes' will be accepted to approve.

Enter a value: yes

aws_iam_user.iam_users[0]: Modifying... [id=user1]

aws_iam_user.iam_users[2]: Modifying... [id=user3]

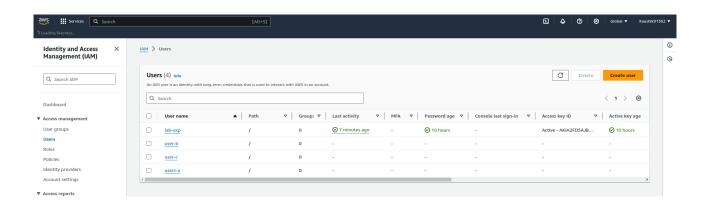
aws_iam_user.iam_users[1]: Modifying... [id=user2]

aws_iam_user.iam_users[2]: Modifications complete after 1s [id=user-c]

aws_iam_user.iam_users[0]: Modifications complete after 1s [id=users-a]

aws_iam_user.iam_users[1]: Modifications complete after 1s [id=user-b]

Apply complete! Resources: 0 added, 3 changed, 0 destroyed.
```



#### Step 7: Clean Up

