

Lab Exercise 7– Creating Multiple IAM Users in Terraform Objective:

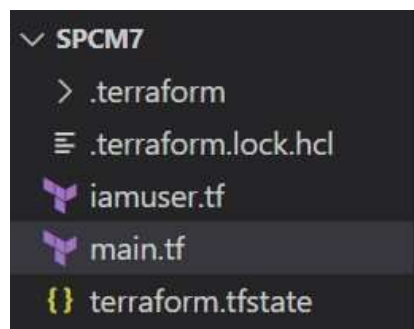
Learn how to use Terraform to create multiple IAM users with unique settings.

Prerequisites:

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

Steps:

1. Create a Terraform Directory:



Create Terraform Configuration Files:

- Create a file named main.tf:

```

main.tf > provider "aws"
1   terraform {
2     required_providers {
3       aws = {
4         source = "hashicorp/aws"
5         version = "5.31.0"
6       }
7     }
8   }
9
10  provider "aws" {
11    region = "ap-south-1"
12    access_key = "AKIAZI2LIAJGSHGMMHP"
13    secret_key = "Fg5ojIkOskuNVG1NPhu4Kv41JzX1/XG/6zeQrGk/"
14  }

```

```

iamuser.tf > ...
1   variable "iam_users" {
2     type = list(string)
3     default = ["user1", "user2", "user3"]
4   }
5
6   resource "aws_iam_user" "my_iam_user" {
7     count = length(var.iam_users)
8     name = var.iam_users[count.index]
9     tags = {
10       Name = "${var.iam_users[count.index]}-upes"
11     }
12   }

```

2. Initialize and Apply:

```

PS C:\Users\Dell\OneDrive\Desktop\DevOps\SPCM7> terraform init

Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.31.0"...
- Installing hashicorp/aws v5.31.0...
- Installed hashicorp/aws v5.31.0 (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 can guarantee to make the same selections by default when
you run "terraform init" 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 modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.

```

```
PS C:\Users\Devl\OneDrive\Desktop\DevOps\SPOD> terraform apply -auto-approve

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create

Terraform will perform the following actions:

# aws_iam_user.my_iam_user[0] will be created
+ resource "aws_iam_user" "my_iam_user" {
  arn              = (known after apply)
  force_destroy    = false
  id               = (known after apply)
  name             = "user1"
  path             = "/"
  tags             = {
    "Name" = "user1-user"
  }
  tags_all         = {
    "Name" = "user1-user"
  }
  unique_id        = (known after apply)
}

# aws_iam_user.my_iam_user[1] will be created
+ resource "aws_iam_user" "my_iam_user" {
  arn              = (known after apply)
  force_destroy    = false
  id               = (known after apply)
  name             = "user2"
  path             = "/"
  tags             = {
    "Name" = "user2-user"
  }
  tags_all         = {
    "Name" = "user2-user"
  }
  unique_id        = (known after apply)
}
```

```
Plan: 3 to add, 0 to change, 0 to destroy.
aws_iam_user.my_iam_user[1]: Creating...
aws_iam_user.my_iam_user[2]: Creating...
aws_iam_user.my_iam_user[0]: Creating...
aws_iam_user.my_iam_user[0]: Creation complete after 3s [id=user1]
aws_iam_user.my_iam_user[2]: Creation complete after 3s [id=user3]
aws_iam_user.my_iam_user[1]: Creation complete after 3s [id=user2]

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

3. Verify Users in AWS Console:

	User name	Path	Group	Last activity	MFA	Password age	Console last sign-in
<input type="checkbox"/>	terraform	/	0	2 days ago	-	20 days	-
<input type="checkbox"/>	user1	/	0	-	-	-	-
<input type="checkbox"/>	user2	/	0	-	-	-	-
<input type="checkbox"/>	user3	/	0	-	-	-	-

