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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.

Step 1 Create main.tf

```
provider "aws" {
  region = "us-east-1"
  access_key = "AKIAUUSTJKS7TPQG7CV"
  secret_key = "ZBhd58GUGRvRAUauqKIU+vxQz4GWCx/jLy1qE78l"
}

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]}-user"
  }
}
```

Step 2 Create variable.tf

```
PS D:\Sem 6 DevOps\SPCM\Lab\My Lab Files and PDFs\aws-terraform-demo> terraform apply

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.iam_users[0] will be created
+ resource "aws_iam_user" "iam_users" {
  + 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.iam_users[1] will be created
+ resource "aws_iam_user" "iam_users" {
  + arn = (known after apply)
  + force_destroy = false
  + id = (known after apply)
  + name = "user2"
  + path = "/"
  + tags = {
    + "Name" = "user2-user"
  }
  + tags_all = {
    + "Name" = "user2-user"
  }
}
```


Step 3

```
aws_iam_user.iam_users[1]: Creating...
aws_iam_user.iam_users[0]: Destruction complete after 4s
aws_iam_user.iam_users[0]: Creating...
aws_iam_user.iam_users[2]: Creation complete after 2s [id=user3]
aws_iam_user.iam_users[1]: Creation complete after 2s [id=user2]
aws_iam_user.iam_users[0]: Creation complete after 2s [id=user1]
```

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

```
PS D:\Sem 6 DevOps\SPCM\Lab\My Lab Files and PDFS\aws-terraform-demo>
```

Step 4

IAM resources 				
Resources in this AWS Account				
User groups	Users	Roles	Policies	Identity providers
0	3	2	0	0

Step 5

```
PS D:\Sem 6 DevOps\SPCM\Lab\My Lab Files and PDFS\aws-terraform-demo> terraform destroy
aws_iam_user.iam_users[1]: Refreshing state... [id=user2]
aws_iam_user.iam_users[0]: Refreshing state... [id=user1]
aws_iam_user.iam_users[2]: Refreshing state... [id=user3]
```