SPCM LAB

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Lab Exercise 7– Creating Multiple IAM Users in Terraform

1. Create a Terraform Directory:

- Create a file named main.tf

terraform-iam-users > main.tf

```
provider "aws" {
region = "us-east-1"
access_key = "AKIAYS2NV47DL6IMWZUT"
secret_key = "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
}
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"
}
}
```

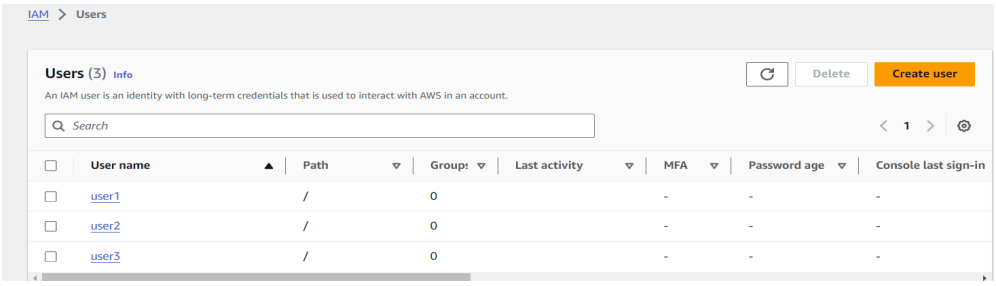
2. Initialize and Apply:
terraform init

```
PS D:\6 th sem\SPCM\SPCM LAB\teraform lab files\terraform-iam-users> t
erraform init

Initializing the backend...

Initializing provider plugins...

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 c
ommands
should now work.
```

terraform apply

```
      + tags_all      = {
          + "Name" = "user3-user"
        }
      + unique_id     = (known after apply)
    }

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

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

3. Verify Users in AWS Console:



4. Update IAM Users:

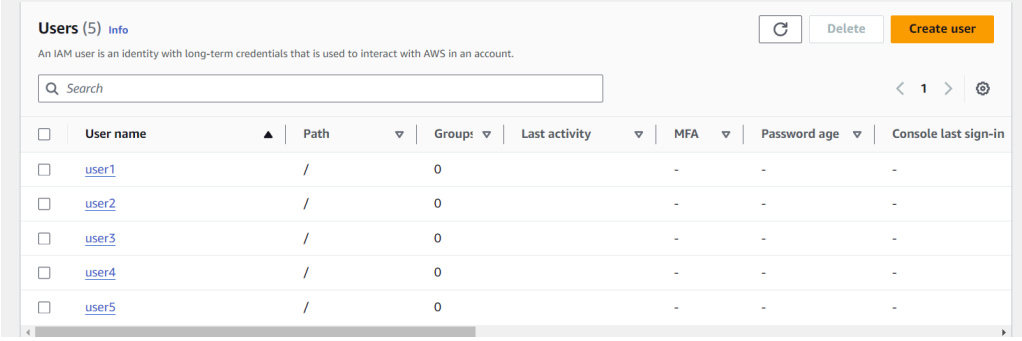
main.tf

terraform-iam-users > main.tf

```
1   provider "aws" {
2   region = "us-east-1"
3   access_key = "AKIAYS2NV47DL6IMWZUT"
4   secret_key = "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
5   }
6   variable "iam_users" {
7   type    = list(string)
8   default = ["user1", "user2", "user3","user4","user5"]
9   }
10  resource "aws_iam_user" "iam_users" {
11  count = length(var.iam_users)
12  name = var.iam_users[count.index]
13  tags = {
14  Name = "${var.iam_users[count.index]}-user"
15  }
16  }
```

terraform apply

```
      }
    + tags_all      = {
        + "Name" = "user5-user"
      }
    + unique_id     = (known after apply)
  }

Plan: 2 to add, 0 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[4]: Creating...
aws_iam_user.iam_users[3]: Creating...
aws_iam_user.iam_users[4]: Creation complete after 1s [id=user5]
aws_iam_user.iam_users[3]: Creation complete after 1s [id=user4]

Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
```



5. Clean Up:
terraform destroy

```
Plan: 0 to add, 0 to change, 5 to destroy.

Do you really want to destroy all resources?
  Terraform will destroy all your managed infrastructure, as shown abo
ve.
  There is no undo. Only 'yes' will be accepted to confirm.

  Enter a value: yes

aws_iam_user.iam_users[4]: Destroying... [id=user5]
aws_iam_user.iam_users[2]: Destroying... [id=user3]
aws_iam_user.iam_users[1]: Destroying... [id=user2]
aws_iam_user.iam_users[0]: Destroying... [id=user1]
aws_iam_user.iam_users[3]: Destroying... [id=user4]
aws_iam_user.iam_users[4]: Destruction complete after 2s
aws_iam_user.iam_users[1]: Destruction complete after 2s
aws_iam_user.iam_users[2]: Destruction complete after 2s
aws_iam_user.iam_users[3]: Destruction complete after 2s
aws_iam_user.iam_users[0]: Destruction complete after 2s

Destroy complete! Resources: 5 destroyed.
PS D:\6 th sem\SPCM\SPCM LAB\teraform lab files\terraform-iam-users>
```