SPCM Lab-7

Objective : Creating Multiple IAM Users in Terraform

1. Create Terraform directory.

```
vidhant@psyches-safehouse:~$ mkdir terraform-iam-users
vidhant@psyches-safehouse:~$ cd terraform-iam-users/
vidhant@psyches-safehouse:~/terraform-iam-users$
```

2. Create terraform configuration file (main.tf) :

```
ev.tfvars   main.tf Lab-7 2 ×   main.tf Lab-6 2   prod.tfvars
7 > main.tf > resource "aws_iam_user" "iam_users"
provider "aws" {
  region = "us-east-1"
  access_key = "AKIA232UVZYDK5TANG62"
  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"
  }
}
```

3. Initialize, validate and Apply :

terraform init :

```
vidhant@psyches-safehouse:~/Documents/Terraform/Lab-7$ terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.35.0...
```

terraform validate :

```
rerun this command to reinitialize your working directory. If you forget, ot
commands will detect it and remind you to do so if necessary.
vidhant@psyches-safehouse:~/Documents/Terraform/Lab-7$ terraform validate
Success! The configuration is valid.

vidhant@psyches-safehouse:~/Documents/Terraform/Lab-7$
SonarLint focus: overall code   Spaces: 4   UTF-8   LF   { } Terraform   Go Live   tabnine starter
```

terraform apply :

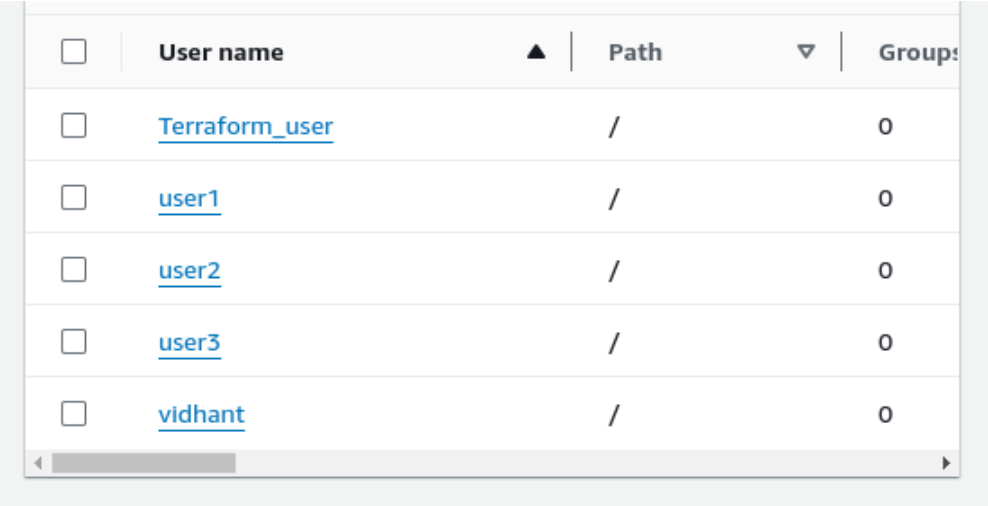
```
vidhant@psyches-safehouse:~/Documents/Terraform/Lab-7$ terraform apply

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
```

4. Verify Users in AWS console :



User name	Path	Groups
Terraform_user	/	0
user1	/	0
user2	/	0
user3	/	0
vidhant	/	0

5. Clean up Resources (terraform destroy) :

```
Apply complete! Resources: 5 added, 0 changed, 0 destroyed.
vidhant@psyches-safehouse:~/Documents/Terraform/Lab-7$ terraform destroy
aws_iam_user.iam_users[2]: Refreshing state... [id=user3]
aws_iam_user.iam_users[0]: Refreshing state... [id=user1]
aws_iam_user.iam_users[1]: Refreshing state... [id=user2]

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

Terraform will perform the following actions:

  # aws_iam_user.iam_users[0] will be destroyed
  - resource "aws_iam_user" "iam_users" {
```