UNIT 5.5(A) GRADED ASSIGNMENT

Group members

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Task:

Prepare a simple configuration to create an AWS S3 bucket with id set to "name-surname-bucket" and output this id to a screen.

Provide commands to create and erase this resource.

Solution:

main.tf:

```
1 terraform {
 2 required_providers {
      aws = {
       source = "hashicorp/aws"
version = "~> 4.39"
 6 }
7 }
    required_version = ">= 1.2.0"
10 }
11
12 provider "aws" {
13 region = "us-east-1"
14 }
15
16 variable "bucket_name" {
17 description = "Name of the S3 bucket"
18 }
20 resource "aws_s3_bucket" "my_bucket" {
bucket = var.bucket_name
acl = "private"
23 }
25 output "s3 bucket" {
26  value = aws_s3_bucket.my_bucket.id
```

In the above file, we are simply creating a bucket. When we write terraform apply, it will first ask for the bucket name because we didn't give bucket name in the file and then it will print the bucket id.

```
C:\Users\asdd\Documents\Assignment-5a>terraform init

Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/aws versions matching "~> 4.39"...
- Installing hashicorp/aws v4.67.0...
- Installed hashicorp/aws v4.67.0 (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.

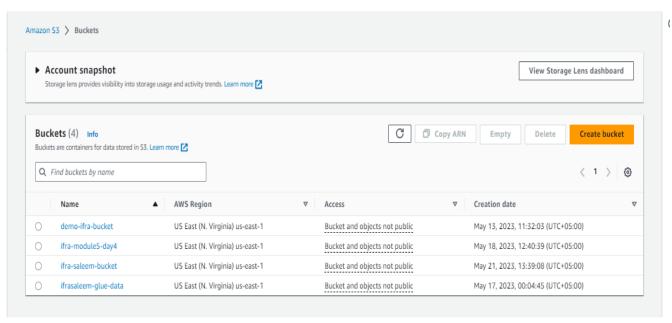
C:\Users\asdd\Documents\Assignment-Sa>terraform apply var.bucket_name
Name of the 33 bucket

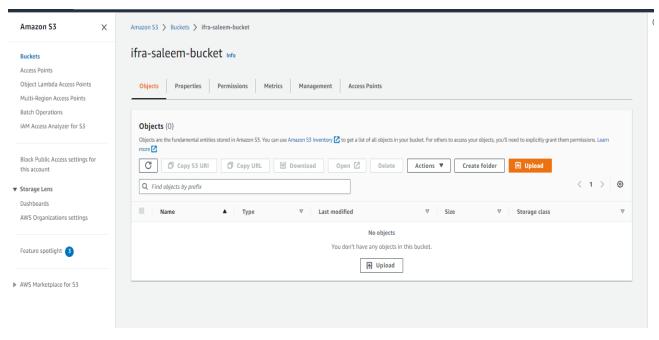
Enter a value: ifra-saleem-bucket

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

```
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the
following symbols:
Terraform will perform the following actions:
  # aws_s3_bucket.my_bucket will be created
+ resource "aws_s3_bucket" "my_bucket" {
+ acceleration_status = (known
                                                = (known after apply)
= "private"
                                                 = (known after apply)
= "ifra-saleem-bucket"
          bucket
          bucket_domain_name
                                                    (known after apply)
          bucket_prefix =
bucket_regional_domain_name =
force_destroy =
                                                     (known after apply)
                                                    (known after apply)
false
                                                    (known after apply)
(known after apply)
(known after apply)
(known after apply)
          hosted_zone_id
        + object_lock_enabled
          policy
region
                                                     (known after apply)
                                                 = (known after apply)
= (known after apply)
= (known after apply)
          request_payer
          tags_all website_domain
          website_endpoint
                                                 = (known after apply)
Plan: 1 to add, 0 to change, 0 to destroy.
Changes to Outputs:
  + s3_bucket = (known after apply)
```







```
::\Users\asdd\Documents\Assignment-5a>terraform destroy
var.bucket_name
Name of the S3 bucket
 Enter a value: ifra-saleem-bucket
aws_s3_bucket.my_bucket: Refreshing state... [id=ifra-saleem-bucket]
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the
following symbols:
   destrov
Terraform will perform the following actions:
 = "Z3AQBSTGFYJSTF" -> null
= "ifra-saleem-bucket" ->
        id
        object_lock_enabled
                                       = false -> null
= "us-east-1" -> null
= "BucketOwner" -> null
        region
request_payer
        tags
tags_all
        grant {
- id
             id = "9007ff2813131a5f15604d0538dbd7c5919a102a7168534a625d0af0456f6b7c" -> null permissions = [
             - "FULL_CONTROL",
] -> null
        server_side_encryption_configuration {
    rule {
      bucket_key_enabled = false -> null
```

```
Plan: 0 to add, 0 to change, 1 to destroy.

Changes to Outputs:
- s3_bucket = "ifra-saleem-bucket" -> null

Warning: Argument is deprecated

with aws_s3_bucket.my_bucket,
on main.tf line 22, in resource "aws_s3_bucket" "my_bucket":
22: acl = "private"

Use the aws_s3_bucket_acl resource instead

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

Enter a value: yes

aws_s3_bucket.my_bucket: Destroying... [id=ifra-saleem-bucket]
aws_s3_bucket.my_bucket: Destruction complete after 2s

Destroy complete! Resources: 1 destroyed.
```