

## Unit 5.5A Graded Assignment

### Instructions:

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

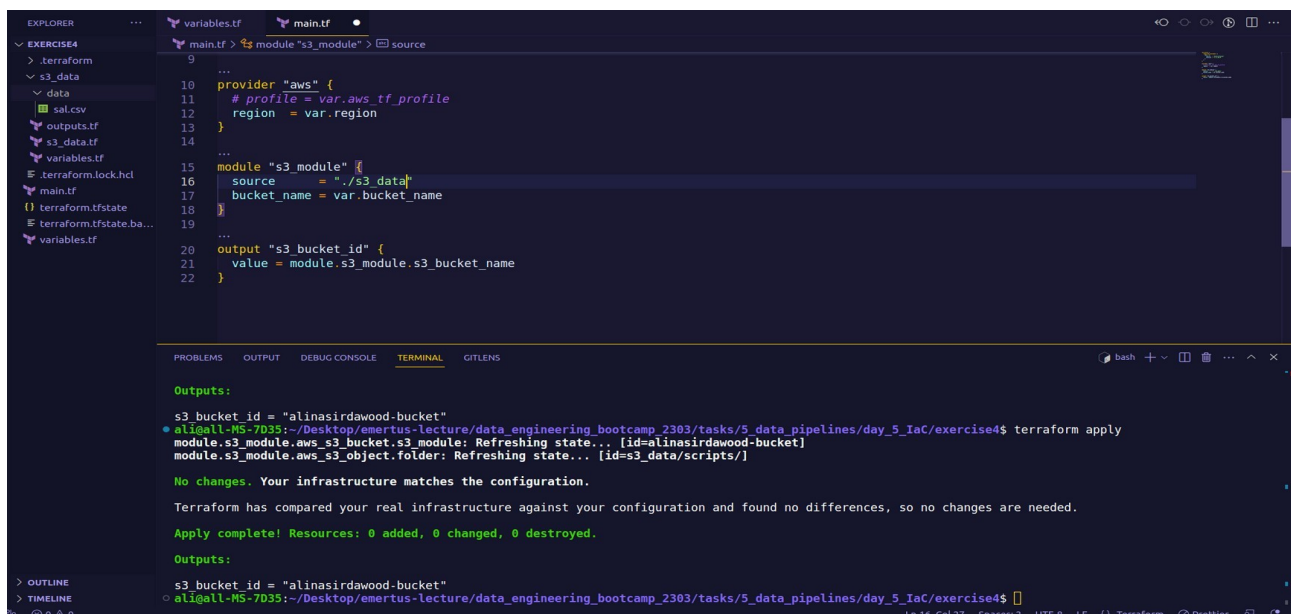
Provide commands to create and erase this resource

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Solution:

1. Here we have made a module our s3 bucket and run it successfully



The screenshot shows a VS Code editor with a Terraform configuration file `main.tf` and a terminal window displaying the output of the `terraform apply` command.

**main.tf:**

```
9
10 provider "aws" {
11   # profile = var.aws_tf_profile
12   region = var.region
13 }
14
15 module "s3_module" {
16   source      = "./s3_data"
17   bucket_name = var.bucket_name
18 }
19
20 output "s3_bucket_id" {
21   value = module.s3_module.s3_bucket_name
22 }
```

**Terminal Output:**

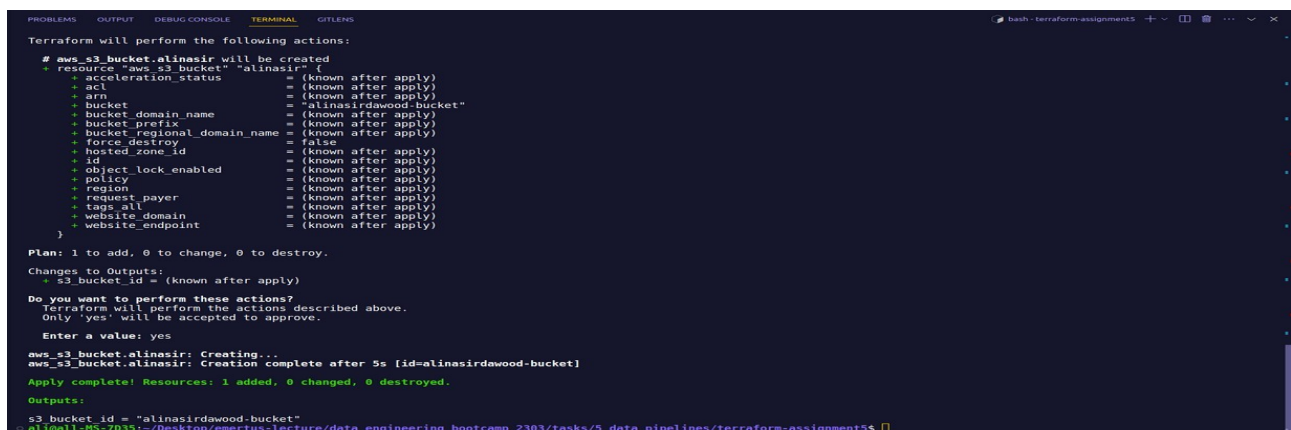
```
Outputs:
s3_bucket_id = "alinasirdawood-bucket"
• ali@all-MS-7035:~/Desktop/emertus-lecture/data_engineering_bootcamp_2303/tasks/5_data_pipelines/day_5_IaC/exercise4$ terraform apply
module.s3_module.aws_s3_bucket.s3_module: Refreshing state... [id=alinasirdawood-bucket]
module.s3_module.aws_s3_object.folder: Refreshing state... [id=s3_data/scripts/]

No changes. Your infrastructure matches the configuration.

Terraform has compared your real infrastructure against your configuration and found no differences, so no changes are needed.

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

Outputs:
s3_bucket_id = "alinasirdawood-bucket"
• ali@all-MS-7035:~/Desktop/emertus-lecture/data_engineering_bootcamp_2303/tasks/5_data_pipelines/day_5_IaC/exercise4$
```



The screenshot shows a VS Code terminal window displaying the output of the `terraform plan` and `terraform apply` commands.

**Terraform Plan Output:**

```
Terraform will perform the following actions:

# aws_s3_bucket.alinasir will be created
+ resource "aws_s3_bucket" "alinasir" {
+   acceleration_status      = (known after apply)
+   acl                      = (known after apply)
+   arn                     = (known after apply)
+   bucket                  = "alinasirdawood-bucket"
+   bucket_domain_name      = (known after apply)
+   bucket_prefix           = (known after apply)
+   bucket_regional_domain_name = (known after apply)
+   force_destroy           = false
+   hosted_zone_id          = (known after apply)
+   id                     = (known after apply)
+   object_lock_enabled     = (known after apply)
+   policy                  = (known after apply)
+   region                 = (known after apply)
+   request_payer           = (known after apply)
+   tags_all               = (known after apply)
+   website_domain         = (known after apply)
+   website_endpoint       = (known after apply)
}

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

Changes to Outputs:
  s3_bucket_id = (known after apply)

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_s3_bucket.alinasir: Creating...
aws_s3_bucket.alinasir: Creation complete after 5s [id=alinasirdawood-bucket]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.

Outputs:
s3_bucket_id = "alinasirdawood-bucket"
• ali@all-MS-7035:~/Desktop/emertus-lecture/data_engineering_bootcamp_2303/tasks/5_data_pipelines/terraform-assignment5$
```

