

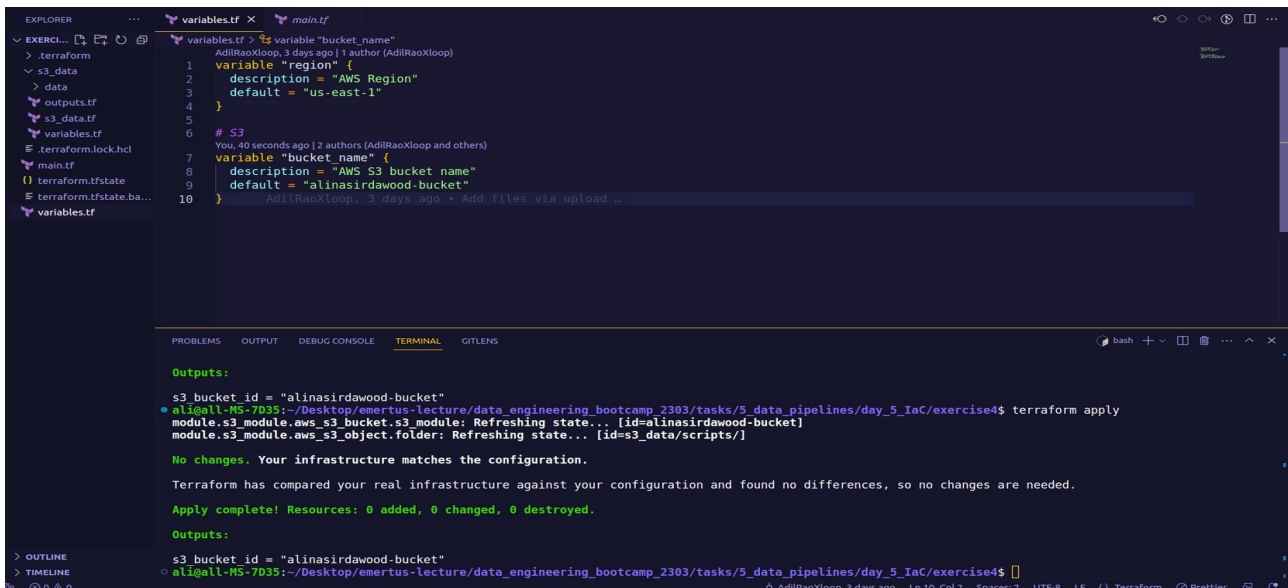
Unit 5.5B Graded Assignment

Instructions:

Make a module of yesterday's task, name it "s3_module". Pass bucket name to the module using variable "bucket_name". Use the returned "s3_bucket" variable to add "day2/laC/" directory to this bucket in the main module.

Submitted by:

1. Ali Nasir (2303.KHI.DEG.012)
2. Saif ur Rehman (2303.KHI.DEG.007)



The screenshot shows a VS Code editor with a file explorer on the left and a terminal at the bottom. The file explorer shows a project structure with files like `variables.tf`, `main.tf`, `s3_data.tf`, and `outputs.tf`. The `variables.tf` file is open, showing two variables: `region` (default "us-east-1") and `bucket_name` (default "alinasirdawood-bucket"). The terminal shows the output of a `terraform apply` command, indicating that the infrastructure matches the configuration and no changes are needed.

```
variables.tf
1 variable "region" {
2   description = "AWS Region"
3   default     = "us-east-1"
4 }
5
6 # S3
7 You, 40 seconds ago | 2 authors (AdilRaoXloop and others)
8 variable "bucket_name" {
9   description = "AWS S3 bucket name"
10  default     = "alinasirdawood-bucket"
11 }
```

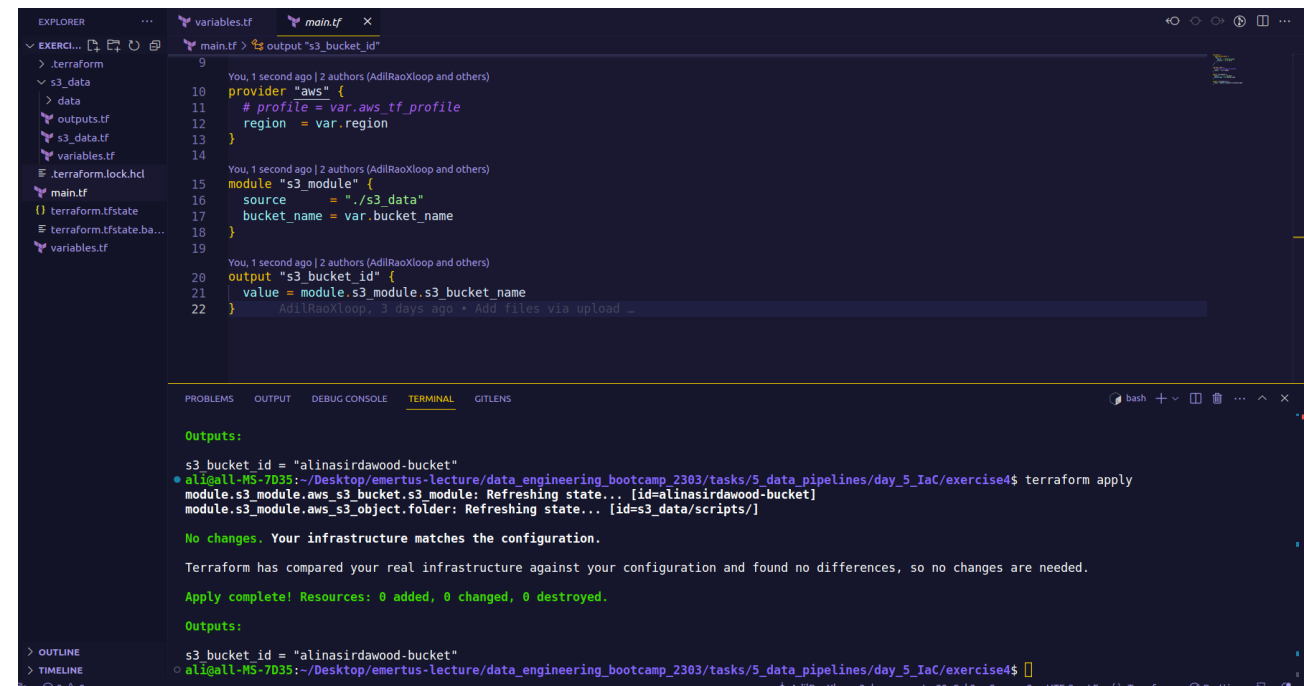
```
Outputs:
s3_bucket_id = "alinasirdawood-bucket"
• ali@all-MS-7035:~/Desktop/emertus-lecture/data_engineering_bootcamp_2303/tasks/5_data_pipelines/day_5_IaC/exercise4$ terraform apply
module.s3_module.aws_s3_bucket.s3_module: Refreshing state... [id=alinasirdawood-bucket]
module.s3_module.aws_s3_object.folder: 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 editor with a file explorer on the left and a terminal at the bottom. The file explorer shows a project structure with files like `variables.tf`, `main.tf`, `s3_data.tf`, and `outputs.tf`. The `main.tf` file is open, showing a module `s3_module` that uses the `bucket_name` variable. The terminal shows the output of a `terraform apply` command, indicating that the infrastructure matches the configuration and no changes are needed.

```
main.tf
9
10 provider "aws" {
11   # profile = var.aws_tf_profile
12   region = var.region
13 }
14
15 You, 1 second ago | 2 authors (AdilRaoXloop and others)
16 module "s3_module" {
17   source      = "./s3_data"
18   bucket_name = var.bucket_name
19 }
20
21 You, 1 second ago | 2 authors (AdilRaoXloop and others)
22 output "s3_bucket_id" {
23   value = module.s3_module.s3_bucket_name
24 }
```

```
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$
```

