Unit 5.5B Graded Assignment:

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Daily Assignment:

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/IaC/" directory to this bucket in the main module.

Answer:

Terraform Module Structure: main.tf

```
erraform {
    required_providers {
        aws = {
            source = "hashicorp/aws"
            version = ">= 3.20.0"
        }
    }
}

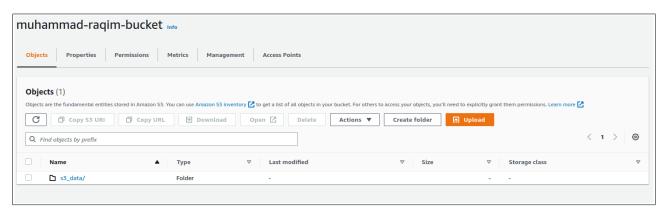
provider "aws" {
    region = "us-east-1"
}

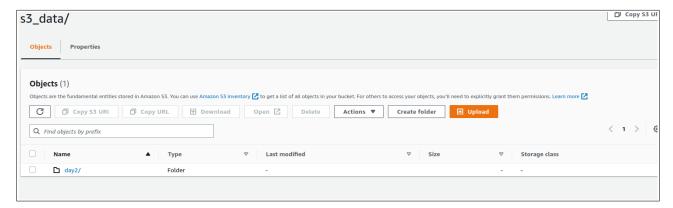
module "s3_data" {
    source = "./s3_data"
    bucket_name = var.bucket_name
}

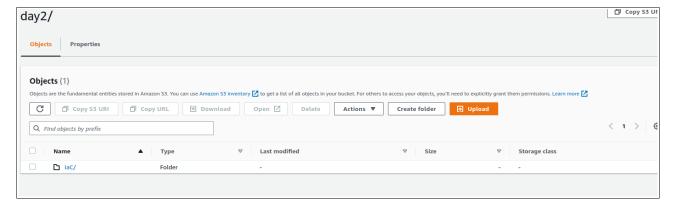
output "s3_bucket_id" {
    value = module.s3_data.s3_bucket_name
}
```

```
_pipelines/day_5_IaC/exercise4$ terraform apply
module.s3_data.aws_s3_bucket.s3_data: Refreshing state... [id=muhammad-raqim-bucket] module.s3_data.aws_s3_object.folder: Refreshing state... [id=s3_data/scripts/]
Note: Objects have changed outside of Terraform
Terraform detected the following changes made outside of Terraform since the last "terraform apply" which may have affected this plan:
  Unless you have made equivalent changes to your configuration, or ignored the relevant attributes using ignore_changes, the following plan may include actions to undo or respond to these changes.
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:
                                         # module.s3_data.aws_s3_bucket.s3_data will be created
     resource "aws_s3_bucket"
+ acceleration_status
         + acl
           arn
           bucket
           bucket_domain_name
           bucket_prefix =
bucket_regional_domain_name =
force_destroy =
hosted_zone_id =
           object_lock_enabled
           policy
region
          request_payer
tags_all
website_domain
website_endpoint
           website_endpoint
                                                  = (known after apply)
   # module.s3_data.aws_s3_object.folder will be created
+ resource "aws_s3_object" "folder" {
         + acl
          bucket_key_enabled
content_type
           etag
force_destroy
```









```
| Specific | Server_side_encryption_configuration {
| Full | Full | Security | Security
```

