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## **ASSIGNMENT 5.5 A**

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:**

### STEP 1:

First of all we will do configuration for creating s3 bucket and its output to be showed to screen as:

## Main.tf file:

# Variable.tf file:

```
Open 

wariables.tf

~/Desktop/New Folder 7/data_engineering_boo...mp_23

main.tf 

variable "bucket_name" {

description = "Name of the S3 bucket"

3 type = string

4 default = "muhammad-hussam-bucket"

5 }
```

### STEP 2:

Initializing the Terraform configuration:

```
(base) muhammadhussam@all-MS-7D35:-/Desktop/New Folder 7/data_engineering_bootcamp_2303/tasks/5_data_pipelines/day_5_Tac/5.5$ terraform init

Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v4.67.0...
- Installing hashicorp/aws v4.67.0...
- Installed hashicorp/aws v4.67.0...

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.

(base) nuhammadhussam@all-MS-7D351-/Desktop/New Folder 7/data_engineering_bootcamp_2303/tasks/5_data_pipelines/day_5_Iac/5.5$ terraform apply
```

### **STEP 3:**

Creating the S3 bucket:

After the bucket is created, Terraform will display the name of bucket that was just created.

```
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.example_bucket: Creating...

aws_s3_bucket.example_bucket: Creation complete after 5s [id=muhammad-hussam-bucket]

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

Outputs:

bucket_id = "muhammad-hussam-bucket"
(base) muhammadhussam@all-MS-7D35:-/Desktop/New Folder 7/data_engineering_bootcamp_2303/tasks/5_data_pipelines/day_5_IaC/5.5$
```

As shown in image above its showing as : bucket\_id = "muhammad-hussam-bucket"

Also in aws account its showing the bucket is created with same name as above:



### STEP 4:

Terraform init is the command for creating as we have just done above in previous step.

Now for erase the resource we use terraform destroy command as:

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

Changes to Outputs:
    - bucket_id = "muhammad-hussam-bucket" -> null

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.example_bucket: Destroying... [id=muhammad-hussam-bucket]
aws_s3_bucket.example_bucket: Destruction complete after 1s

Destroy complete! Resources: 1 destroyed.
```

Hence its destroyed.