Members

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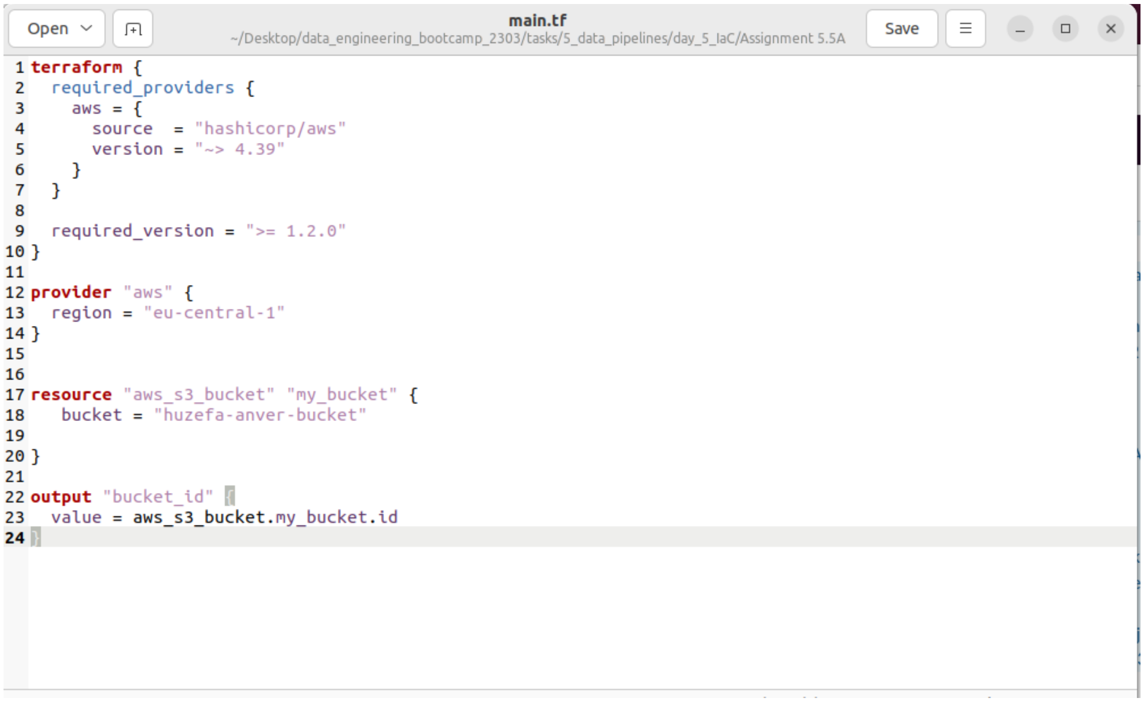
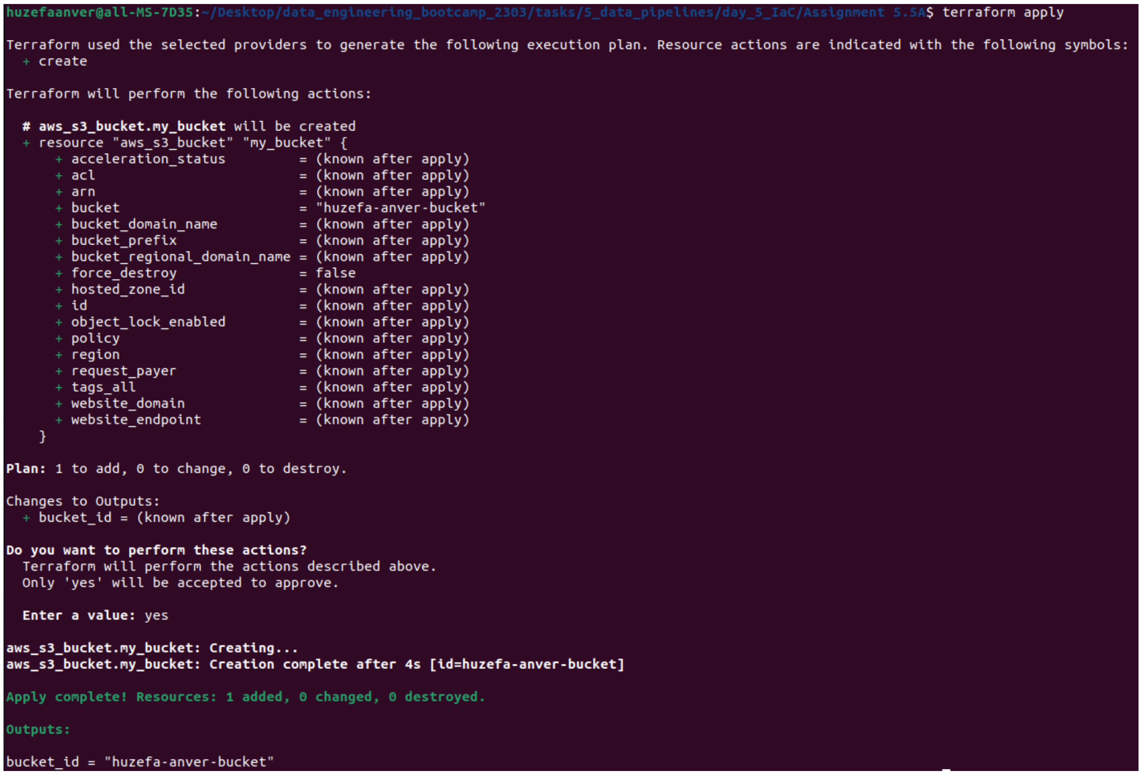
Our main.tf file


Open
main.tf
~/Desktop/data_engineering_bootcamp_2303/tasks/5_data_pipelines/day_5_IaC/Assignment 5.5A
Save

```
terraform {
  required_providers {
    aws = {
      source  = "hashicorp/aws"
      version = "~> 4.39"
    }
  }

  required_version = ">= 1.2.0"
}

provider "aws" {
  region = "eu-central-1"
}


resource "aws_s3_bucket" "my_bucket" {
   bucket = "huzefa-anver-bucket"

}

output "bucket_id" {
  value = aws_s3_bucket.my_bucket.id
}
```

Here we have created a config file defining our tool and its version, our provider aws and the region we want, our resources we want to create s3 bucket, and the output we to print after creation bucket id.

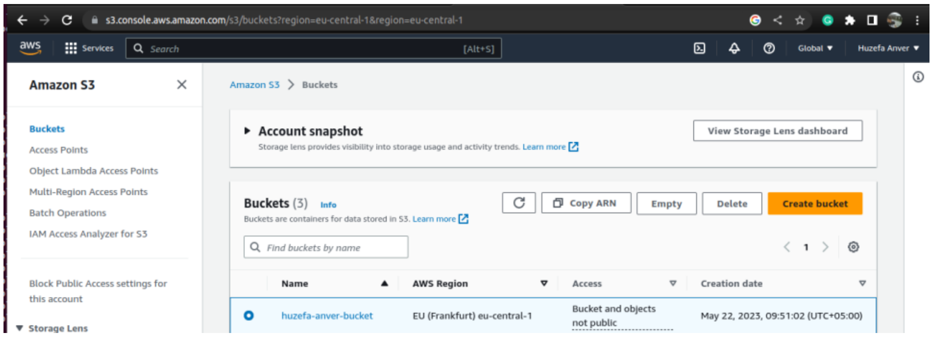
Terraform apply



```
huzefaanver@all-MS-7D35:~/Desktop/data_engineering_bootcamp_2303/tasks/5_data_pipelines/day_5_IaC/Assignment 5.5A$ terraform apply

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

Terraform will perform the following actions:

  # aws_s3_bucket.my_bucket will be created
  + resource "aws_s3_bucket" "my_bucket" {
      + acceleration_status         = (known after apply)
      + acl                         = (known after apply)
      + arn                         = (known after apply)
      + bucket                      = "huzefa-anver-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:
  + 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.my_bucket: Creating...
aws_s3_bucket.my_bucket: Creation complete after 4s [id=huzefa-anver-bucket]

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

Outputs:

bucket_id = "huzefa-anver-bucket"
```

After terraform init we can apply our main.tf file we created which will create the resources and output the data as we defined.

Created bucket in aws cloud


s3.console.aws.amazon.com/s3/buckets?region=eu-central-1&region=eu-central-1
aws
Services
Search
[Alt+S]
Global
Huzefa Anver
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Amazon S3 > Buckets
View Storage Lens dashboard
Info
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
1

Account snapshot

Storage lens provides visibility into storage usage and activity trends. Learn more

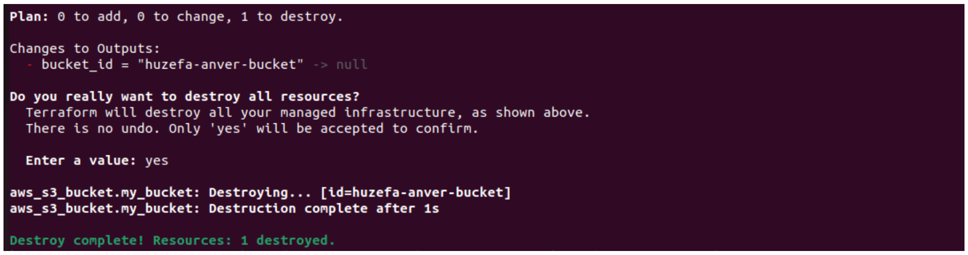
Buckets (3)

Buckets are containers for data stored in S3. Learn more

	Name	AWS Region	Access	Creation date
●	huzefa-anver-bucket	EU (Frankfurt) eu-central-1	Bucket and objects not public	May 22, 2023, 09:51:02 (UTC+05:00)

We can see over here our bucket is created in our aws cloud.

Terraform destroy



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

Changes to Outputs:
  - bucket_id = "huzefa-anver-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.my_bucket: Destroying... [id=huzefa-anver-bucket]
aws_s3_bucket.my_bucket: Destruction complete after 1s

Destroy complete! Resources: 1 destroyed.
```

Lastly, we are destroying our bucket using terraform destroy command, which will delete our bucket from our aws cloud.