

1] Visit the aws-s3 branch

```
C:\Users\adity\Desktop\QuestIT_04>cd aws-s3
C:\Users\adity\Desktop\QuestIT_04\aws-s3>
```

2] provider.tf



```
provider "aws" {
  access_key = "ASIAKFAJFBPATCC23UH"
  secret_key = "pL3hN7uAdYn0rAmE2/p0a3z0PLr-b0vELLDFepFT5"
  token = "Igo3b3p221uX2VjELD/////////6aCKVzLx41cQNHJHMEUCIQnbBads8bnFuHkLFAbI8oFwSf5jizPguUATd6OM3nA1gKYD3zv2B81uM3E+SG7pV0ZbINAT5HQmvaC39H1v0QuAI1uf/////////
  ARAdQgw0TA1M2AMMTc20TQ1DPhjF47HTUZIafdxIqAvVgq15T87L/MTjV4DVdjdNw1KfzT/3Xgz+dQvPMdYr-1KAVogV0n0ha+X/7L6uEHv+EnlcrTj31Testqqe+HgV7E+WkOd/mdkTokzyoaf
  ++P2HjzovcFF0D0s18+b+ovqhp4qb2PrEP3B1pVLDOHLKJ3s5nmg193BHPwKEEjLAXARccJCRfHRZi-jg27rKTTc1H5o+8x3tnxHMS10sVvyQRVf3ts83n56DvVjg0ZawbQ0M37a8pLnRR
  +bEN3ZOYaSeqInAI70y73Yq21n0Z
  +d60RKEcMcFlomDeaqQ8a8ITz0rvH34CSLU0N3W70UBdCPis46EjJMoDBEBuHqjH32m11VKV0N2sw1JmetgY6nQeatsuiFqo1eXah7C4pKTe2R2oukDmatRcvur41eUhuSCFkK1mV0LwJ37FVqde08T55wSeeZq0FAxHRMaX
  Ts55/c810nVb0GT1a5ZQ8gwyntkTnzxbjVZyduUBVDEKGVJK1EQIDyyHwewirxeNg9FF3gs14Bg8H2Z1/gQCKykdIG3KHuUwSe2RBT2MB3FPLs4Vr4noFkCRkKhB"
  region = "us-east-1"
}
```

2] main.tf [create a bucket]



```
terraform {
  required_providers {
    aws = {
      source = "hashicorp/aws"
      version = "5.64.0"
    }
  }
}

resource "aws_s3_bucket" "demo-bucket" {
  bucket = "demo-bucket-8a98aa26299320b6c6"
}
```

3] terraform init

```
C:\Users\adity\Desktop\QuestIT_04\aws-s3>terraform init
Initializing the backend...
Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.64.0"...
- Installing hashicorp/aws v5.64.0...
- Installed hashicorp/aws v5.64.0 (signed by HashiCorp)
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.

```
C:\Users\adity\Desktop\QuestIT_04\aws-s3>
```

4]terraform plan

```
C:\Users\adity\Desktop\QuestIT_04\aws-s3>terraform plan
```

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.Raorane-resource-bucket will be created
+ resource "aws_s3_bucket" "Raorane-resource-bucket" {
  + acceleration_status      = (known after apply)
  + acl                      = (known after apply)
  + arn                     = (known after apply)
  + bucket                  = "Raorane-resource-bucket-0a90aa262993200c6"
  + 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)

  + cors_rule (known after apply)

  + grant (known after apply)

  + lifecycle_rule (known after apply)

  + logging (known after apply)

  + logging (known after apply)

  + object_lock_configuration (known after apply)

  + replication_configuration (known after apply)

  + server_side_encryption_configuration (known after apply)

  + versioning (known after apply)

  + website (known after apply)
}
```

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

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.

```
C:\Users\adity\Desktop\QuestIT_04\aws-s3>
```

5]terraform apply

```
C:\Users\adity\Desktop\QuestIT_04\aws-s3>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.demo-bucket will be created
+ resource "aws_s3_bucket" "demo-bucket" {
  + acceleration_status      = (known after apply)
  + acl                      = (known after apply)
  + arn                      = (known after apply)
  + bucket                   = "demo-bucket-0a90aa262993200c6"
  + 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)

  + cors_rule (known after apply)

  + grant (known after apply)

  + lifecycle_rule (known after apply)

  + logging (known after apply)

  + replication_configuration (known after apply)
```

```
  + server_side_encryption_configuration (known after apply)

  + versioning (known after apply)

  + website (known after apply)
}
```

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

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.demo-bucket: Creating...

aws_s3_bucket.demo-bucket: Creation complete after 4s [id=demo-bucket-0a90aa262993200c6]

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

```
C:\Users\adity\Desktop\QuestIT_04\aws-s3>
```

6]In the aws academy -> Services -> Bucket

Amazon S3

Account snapshot - updated every 24 hours [All AWS Regions](#) [View Storage Lens dashboard](#)

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

General purpose buckets | Directory buckets

General purpose buckets (3) [Info](#) [All AWS Regions](#) [Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3.

Find buckets by name

Name	AWS Region	IAM Access Analyzer	Creation date
demo-bucket-0a90aa262993200c6	US East (N. Virginia) us-east-1	View analyzer for us-east-1	August 24, 2024, 14:22:33 (UTC+05:30)
elasticbeamtalk-us-east-1-090530457694	US East (N. Virginia) us-east-1	View analyzer for us-east-1	August 5, 2024, 14:00:29 (UTC+05:30)
www.raorane.com	US East (N. Virginia) us-east-1	View analyzer for us-east-1	August 12, 2024, 15:12:44 (UTC+05:30)

Amazon S3 > Buckets > demo-bucket-0a90aa262993200c6

demo-bucket-0a90aa262993200c6 [Info](#)

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (0) [Info](#) [Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

Name	Type	Last modified	Size	Storage class
No objects				

You don't have any objects in this bucket.

[Upload](#)

7]myfile.txt

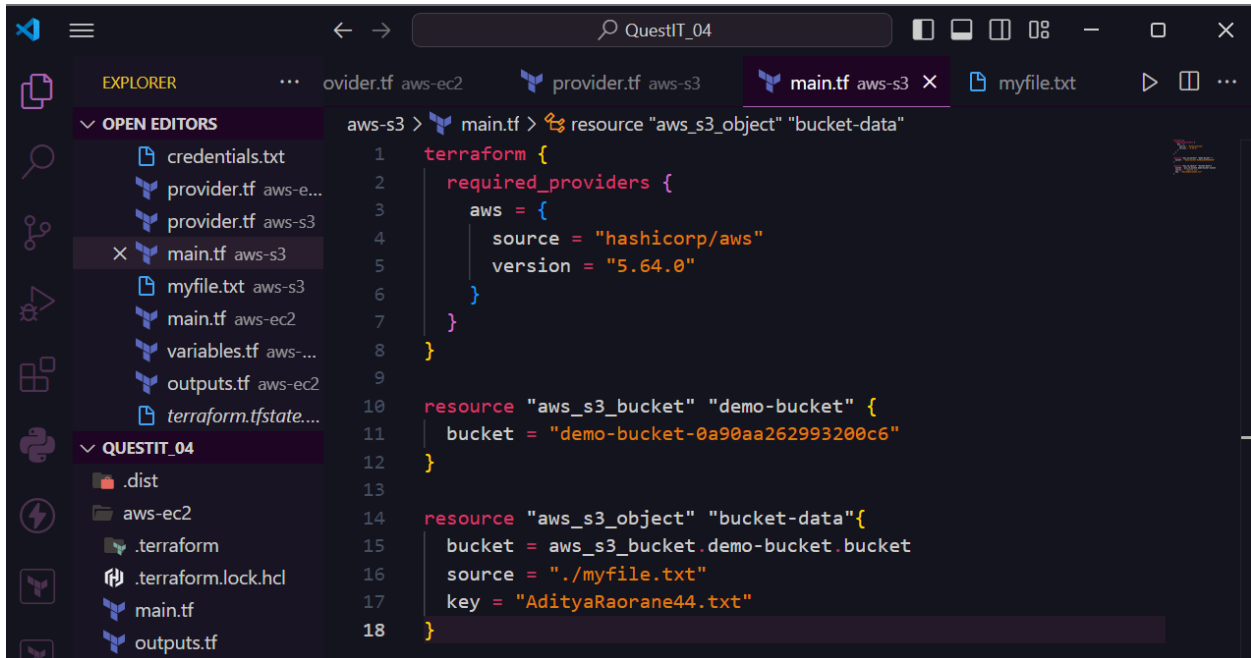
File Edit Selection View Go Run Terminal Help

provider.tf aws-s3 U provider.tf static-website-hosting U main.tf static-website-hosting U main.tf aws-s3 U main.tf tf-backend U myfile.txt U main.tf aws-ec2 U variables.tf

aws-s3 > myfile.txt

```
1 Welcome!!
2 I am Aditya Raorane from DISC/Batch_B/44
```

8]main.tf [add a file to the bucket]



The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays the project structure for 'QUESTIT_04', including files like 'credentials.txt', 'provider.tf', 'main.tf', 'myfile.txt', 'variables.tf', 'outputs.tf', and 'terraform.tfstate...'. The main editor area shows the 'main.tf' file for the 'aws-s3' provider. The code defines a Terraform configuration with a required provider, an S3 bucket named 'demo-bucket', and an S3 object named 'bucket-data'.

```
1 terraform {
2   required_providers {
3     aws = {
4       source = "hashicorp/aws"
5       version = "5.64.0"
6     }
7   }
8 }
9
10 resource "aws_s3_bucket" "demo-bucket" {
11   bucket = "demo-bucket-0a90aa262993200c6"
12 }
13
14 resource "aws_s3_object" "bucket-data"{
15   bucket = aws_s3_bucket.demo-bucket.bucket
16   source = "./myfile.txt"
17   key = "AdityaRaorane44.txt"
18 }
```

9]terraform apply

```
C:\Users\adity\Desktop\QuestIT_04\aws-s3>terraform apply
aws_s3_bucket.demo-bucket: Refreshing state... [id=demo-bucket-0a90aa262993200c6]
```

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_object.bucket-data will be created
+ resource "aws_s3_object" "bucket-data" {
  + acl                = (known after apply)
  + arn                = (known after apply)
  + bucket             = "demo-bucket-0a90aa262993200c6"
  + bucket_key_enabled = (known after apply)
  + checksum_crc32     = (known after apply)
  + checksum_crc32c    = (known after apply)
  + checksum_sha1      = (known after apply)
  + checksum_sha256    = (known after apply)
  + content_type       = (known after apply)
  + etag              = (known after apply)
  + force_destroy      = false
  + id                 = (known after apply)
  + key                = "AdityaRaorane44.txt"
  + kms_key_id         = (known after apply)
  + server_side_encryption = (known after apply)
  + source             = "./myfile.txt"
  + storage_class      = (known after apply)
  + tags_all           = (known after apply)
  + version_id         = (known after apply)
}
```

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

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

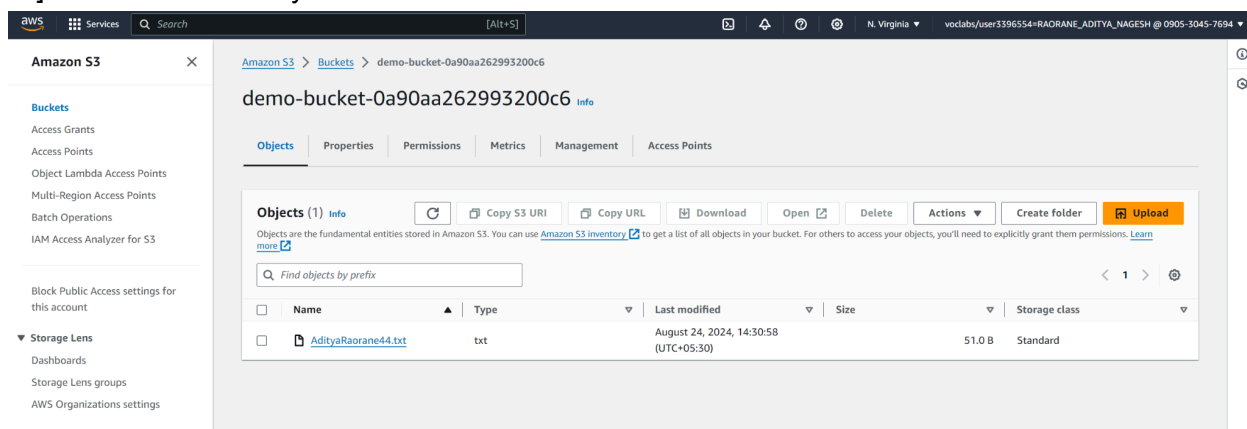
aws_s3_object.bucket-data: Creating...

aws_s3_object.bucket-data: Creation complete after 1s [id=AdityaRaorane44.txt]

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

```
C:\Users\adity\Desktop\QuestIT_04\aws-s3>
```

10] In the aws academy -> Services -> S3 -> demo-bucket-0a90aa262993200c6



11] main.tf [add a file with random-id to keep it unique]

