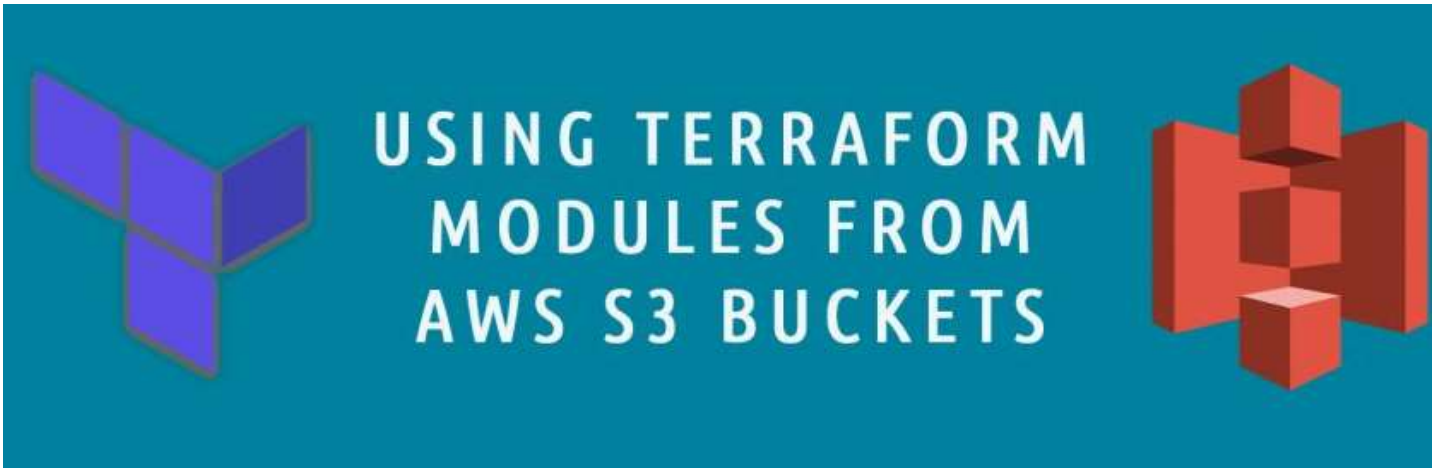

1) Create S3 Bucket

```
# vi providers.tf
```

```
provider "aws" {
  profile = "default"
  region  = "ap-south-1"
}
```

```
# vi   test1.tf
```

```
resource "aws_s3_bucket" "bucket1" {
        bucket =  "awsbatch701"
        acl    =  "private"
}
/*## private means only bucket owner can access it ##*/
```

```
        # vi   test2.tf

resource "aws_s3_bucket" "bucket2" {
         bucket =  "awsbatch702"
        acl    =  "public-read"
}
# vi test3.tf
resource "aws_s3_bucket" "bucket1" {
   bucket = "awsbatch703"
   acl    = "private"
versioning  {
   enabled = true
  }
}
```

2) Creating s3 bucket but in another way

```
    module "s3_bucket" {
      source = "terraform-aws-modules/s3-bucket/aws"
      bucket = "my-s3-bucket"
      acl    = "private"
      versioning = {
        enabled = true
      }
```

```
}
```

3) Deleting Empty Bucket

```
# vi  test3.tf

resource "aws_s3_bucket" "bucket1" {
   bucket = "awsbatch703"
}

# terraform destroy
```

4) Delete mutiple s3 bucket from different region

```
# vi   test4.tf

provider "aws" {
alias  = "ap-south-1"
region = "ap-south-1"
 }

provider "aws" {
alias = "us-east-2"
region = "us-east-2"
 }

resource "aws_s3_bucket" "s3_bucket_1" {
 bucket = "deepak-testbucket1"
 region = "ap-south-1"
 provider = "aws.ap-south-1"
 }
```

```
resource "aws_s3_bucket" "s3_bucket_2" {
 bucket = "deepak-testbucket2"
 region = "us-east-2"
 provider = "aws.us-east-2"
 }

# terraform destroy
```

5) Create bucket and set lifecycle to delete automatically after 6 months

```
resource "aws_s3_bucket" "bucket" {
  bucket = "awsbatch704"
  acl    = "private"

  lifecycle_rule {
    id      = "log"
    enabled = true
    prefix  = "log/log.txt"

    expiration {
      days = 180
    }
  }
}
```

6) Enable logging

```
resource "aws_s3_bucket" "log_bucket" {
  bucket = "my-tf-log-bucket"
  acl    = "log-delivery-write"
}
```

```
resource "aws_s3_bucket" "b" {
  bucket = "my-tf-test-bucket"
  acl    = "private"

  logging {
    target_bucket = aws_s3_bucket.log_bucket.id
    target_prefix = "log/"
  }
}
```

AWS IAM

1) Creating IAM User named deepak

```
provider "aws" {
  region = "ap-south-1"
}
resource "aws_iam_user" "example" {
  name = "deepak"
}
```

2) Creating multiple user

```
resource "aws_iam_user" "example" {
  count = 3
  name  = "deepak.${count.index}"
}
```