Using Terraform to Create a RandomID and S3 Buckets

Create the Main file:-

Create the main.tf Terraform file.

Add a provider, aws.

Set the region to use a variable called aws\_region.

Add a random\_id resource and name it tf\_bucket\_id.

Set the byte\_length to 2.

Add a resource, aws\_s3\_bucket, and name it tf\_code.

The bucket name will be set using a variable called project\_name, followed by a -, and will use the dec attribute from tf\_bucket\_id.

Set the acl to private.

Set force\_destroy to true.

Create a tag with a name to tf\_bucket.

Create the Variables File:-

Create the variables.tf Terraform file.

Add a variable called aws\_region.

Set the default to us-east-1. Add a variable called project\_name.

Set the default to la-terraform.

Create the outputs file:-

Create the outputs.tf Terraform file.

Add a output called bucketname.

The value should be set to id, coming from tf\_code.

Deploy the infrastructure:-

Initialize Terraform.

Validate the files.

Deploy the S3 bucket.

-------------------Main.tf------------------------

provider "aws" {

access\_key = var.aws\_access\_key

secret\_key = var.aws\_secret\_key

region = var.aws\_region

}

resource "aws\_s3\_bucket" "tf\_code" {

bucket = "${var.project\_name}-${random\_id.tf\_bucket\_id.dec}"

acl = "private"

force\_destroy = true

tags = { Name = "tf\_bucket" }

}

resource "random\_id" "tf\_bucket\_id" {

byte\_length = 2

}

------------------variables.tf-----------------------------

variable "aws\_access\_key" { default = ""}

variable "aws\_secret\_key" {default = ""}

variable "key\_name" {default ="MyFirstKey"}

variable "private\_key\_path" {default = "D:\\AWS\\MyFirstKey.pem"}

variable "aws\_region" {

    default = "us-east-1"

}

variable "project\_name" {

    default = "la-terraform"

}

--------------------------------outputs.tf-------------------------------------

output "bucketname" {

    value = aws\_s3\_bucket.tf\_code.id

}