**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.**

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**Main.tf**

provider "aws" {

  access\_key = var.aws\_access\_key

  secret\_key = var.aws\_secret\_key

  region = "${var.aws\_region}"

}

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

  byte\_length = 2

}

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"

    #}

}

**Output.tf**

output "bucketname" {

  value = "${aws\_s3\_bucket.tf\_code.id}"

}

**Variable.tf**

variable "aws\_region" {

  default = "us-east-1"

}

variable "project\_name" {

  default = "la-terraform"

}

variable "aws\_access\_key" {

  default = "AKIAXE6A4XQ3FKLU6FOB"

}

variable "aws\_secret\_key" {

  default = "PzQL/6BJZWnOjrba70FdIiauJam6fYXR3JF1LvaK"

}

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