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.

main.tf:

provider "aws" {

region = "us-east-2"

access\_key = "AKIASIJGMTMM77M3WW7R"

secret\_key = "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"

}

#provider aws {

#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

#tag {

#Name = "tf\_bucket"

#}

}

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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.

variable "aws\_region" {

default = "us-east-1"

}

variable "project\_name" {

default = "la-terraform"

}

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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.

output "bucketname" {

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

}

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Deploy the infrastructure:-

Initialize Terraform.

PS C:\Users\user\Desktop\terraform\ass6> terraform init

Validate the files.

PS C:\Users\user\Desktop\terraform\ass6> terraform validate

Success! The configuration is valid.

Deploy the S3 bucket.

PS C:\Users\user\Desktop\terraform\ass6> terraform apply

random\_id.tf\_bucket\_id: Refreshing state... [id=DMI]

aws\_s3\_bucket.tf\_code: Refreshing state... [id=la-terraform-3266]

Outputs:

bucketname = "la-terraform-3266"