Using Join and Count to Create Multiple S3 Buckets

Find three files as below:-

main.tf :-

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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

tags {

Name = "tf\_bucket"

}

}

variables.tf:-

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variable "aws\_region" {

default = "us-east-1"

}

variable "project\_name" {

default = "la-terraform"

}

outputs.tf:-

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output "bucketname" {

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

}

Update the Variables File:-

Edit variables.tf.

Add a new variable number\_of\_instances.

Set the the default to 2.

Update the Main File:-

Update random\_id and add a count.

Set the value count to use the number\_of\_instances variable.

Update aws\_s3\_bucket and add a count.

Update random\_id.tf\_bucket\_id.dec so it iterates through the count. Update the Name tag so that tf\_bucket is appended with the count index plus one.

Update the Outputs File:-

Update the bucketname output value to use the join function so that it returns a comma delimited list of bucket names.

Deploy the Infrastructure:-

Initialize Terraform.

Validate the files.

Deploy the S3 buckets.

----------------------------main-------------------------------------------

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

  count = var.number\_of\_instances

}

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

    #count = 2

    bucket        = "${var.project\_name}-${random\_id.tf\_bucket\_id[count.index]}"

    acl           = "private"

    force\_destroy =  true

    tags = {

      Name = "tf\_bucket-${count.index}"

    }

}

------------------------------------variables------------------------------------

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"

}

variable "number\_of\_instances" {

  default = 2

}

--------------------------outputs-----------------------------

output "bucketname" {

  value = join(",", [aws\_s3\_bucket.tf\_code.id, aws\_s3\_bucket.tf\_code.id])

}