Create 2 EC2 instances on 2 different regions and install nginx using terraform script.

**Provider.tf**

terraform {

  required\_providers {

    aws = {

      source  = "hashicorp/aws"

      version = "~> 5.0"

    }

  }

}

# Configure the AWS Provider

provider "aws" {

  alias  = "east1"

  region = "us-east-1"

}

# Configure the AWS Provider

provider "aws" {

  alias  = "east2"

  region = "us-east-2"

}

**main.tf**

variable "instance\_type" {

  description = "Type of EC2 instance"

  default     = "t2.micro"

}

variable "ami\_ids" {

  description = "Map of AMIs by region"

  type        = map(string)

  default = {

    "us-east-1" = "ami-0953476d60561c955"

    "us-east-2" = "ami-06c8f2ec674c67112"

  }

}

resource "aws\_instance" "nginx\_instance\_1" {

  provider      = aws.east1

  ami           = var.ami\_ids["us-east-1"]

  instance\_type = var.instance\_type

  user\_data     = <<-EOF

                #!/bin/bash

                sudo yum update -y

                sudo amazon-linux-extras install nginx1 -y

                sudo systemctl start nginx

                sudo systemctl enable nginx

                EOF

  tags = {

    Name = "NginxEngine01"

  }

}

resource "aws\_instance" "nginx\_instance\_2" {

  provider      = aws.east2

  ami           = var.ami\_ids["us-east-2"]

  instance\_type = var.instance\_type

  user\_data     = <<-EOF

                #!/bin/bash

                sudo yum update -y

                sudo amazon-linux-extras install nginx1 -y

                sudo systemctl start nginx

                sudo systemctl enable nginx

                EOF

  tags = {

    Name = "NginxEngine02"

  }

}

**Output.tf**

output "nginx\_instance\_1\_ip" {

  value = aws\_instance.nginx\_instance\_1.public\_ip

}

output "nginx\_instance\_2\_ip" {

  value = aws\_instance.nginx\_instance\_2.public\_ip

}

**Step01:** Launching EC2 instances with Nginx installed using Terraform commands

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