# main.tf

# Specify the provider and version

terraform {

  required\_providers {

    aws = {

      source  = "hashicorp/aws"

      version = "~> 3.0"

    }

  }

  required\_version = ">= 0.13"

}

# Define AWS provider for the first region (e.g., us-east-1)

provider "aws" {

  alias  = "us\_east"

  region = "us-east-1"

}

# Define AWS provider for the second region (e.g., us-west-2)

provider "aws" {

  alias  = "us\_west"

  region = "us-west-2"

}

# Create EC2 instance in us-east-1

resource "aws\_instance" "web\_us\_east" {

  provider          = aws.us\_east

  ami               = "ami-0bb84b8ffd87024d8" # Amazon Linux 2 AMI for us-east-1

  instance\_type     = "t2.micro"

  tags = {

    Name = "WebServer-US-East"

  }

  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

}

# Create EC2 instance in us-west-2

resource "aws\_instance" "web\_us\_west" {

  provider          = aws.us\_west

  ami               = "ami-01e24be29428c15b2" # Amazon Linux 2 AMI for us-west-2

  instance\_type     = "t2.micro"

  tags = {

    Name = "WebServer-US-West"

  }

  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

}



