# provider

# Configure the AWS Provider

provider "aws" {

region = "eu-west-2"

}

# WEEK-VPC

resource "aws\_vpc" "week-4-new-vpc" {

cidr\_block = "10.0.0.0/16"

instance\_tenancy = "default"

enable\_dns\_hostnames = "true"

tags = {

Name = "week-4-new-vpc"

}

}

# public subnets-1

resource "aws\_subnet" "public-sub-1" {

vpc\_id = aws\_vpc.week-4-new-vpc.id

cidr\_block = "10.0.1.0/24"

tags = {

Name = "public-sub-1"

}

}

# public subnet-2

resource "aws\_subnet" "public-subnet-2" {

vpc\_id = aws\_vpc.week-4-new-vpc.id

cidr\_block = "10.0.2.0/24"

tags = {

Name = "public-subnet-2"

}

}

# private subnet-1

resource "aws\_subnet" "private-subnet-1" {

vpc\_id = aws\_vpc.week-4-new-vpc.id

cidr\_block = "10.0.3.0/24"

tags = {

Name = "private-subnet-1"

}

}

# priavte subnet-2

resource "aws\_subnet" "private-subnet-2" {

vpc\_id = aws\_vpc.week-4-new-vpc.id

cidr\_block = "10.0.4.0/24"

tags = {

Name = "private-subnet-2"

}

}

# public route-table

resource "aws\_route\_table" "public-route-table" {

vpc\_id = aws\_vpc.week-4-new-vpc.id

tags = {

Name = "public-route-table"

}

}

# private route-table

resource "aws\_route\_table" "private-route-table" {

vpc\_id = aws\_vpc.week-4-new-vpc.id

tags = {

Name = "private-route-table"

}

}

# route-table-association public subnet 1 and 2

resource "aws\_route\_table\_association" "public-route-table-1-association" {

subnet\_id = aws\_subnet.public-sub-1.id

route\_table\_id = aws\_route\_table.public-route-table.id

}

resource "aws\_route\_table\_association" "public-route-table-2-association" {

subnet\_id = aws\_subnet.public-subnet-2.id

route\_table\_id = aws\_route\_table.public-route-table.id

}

# route table assoicaition private subnets

resource "aws\_route\_table\_association" "private-route-1-association" {

subnet\_id = aws\_subnet.private-subnet-1.id

route\_table\_id = aws\_route\_table.private-route-table.id

}

resource "aws\_route\_table\_association" "private-route-2-association" {

subnet\_id = aws\_subnet.private-subnet-2.id

route\_table\_id = aws\_route\_table.private-route-table.id

}

# internet gate-way

resource "aws\_internet\_gateway" "IGW-public" {

vpc\_id = aws\_vpc.week-4-new-vpc.id

}

resource "aws\_route" "public-IGW-route" {

route\_table\_id = aws\_route\_table.public-route-table.id

destination\_cidr\_block = "0.0.0.0/0"

gateway\_id = aws\_internet\_gateway.IGW-public.id

}

resource "aws\_eip" "private-route-1-association" {

vpc = true

associate\_with\_private\_ip = "10.0.0.5"

tags = {

Name = "Production-EIP"

}

}

# natgatw-way

resource "aws\_nat\_gateway" "nat-gw" {

allocation\_id = aws\_eip.private-route-1-association.id

subnet\_id = aws\_subnet.private-subnet-1.id

tags = {

Name = "Production-Nat-GW"

}

}

resource "aws\_route" "nat-gw-route" {

route\_table\_id = aws\_route\_table.private-route-table.id

nat\_gateway\_id = aws\_nat\_gateway.nat-gw.id

destination\_cidr\_block = "0.0.0.0/0"

}