vi creds.tf

provider "aws" {

access\_key = " "

secret\_key = " "

region = "us-east-2"

cat creds.tf

vi main.tf

resource "aws\_vpc" "Main" {

cidr\_block = "10.0.0.0/16"

instance\_tenancy = "default"

tags = {

Name = "Main"

}

}

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

vpc\_id = aws\_vpc.Main.id

tags = {

Name = "IGW"

}

}

resource "aws\_subnet" "publicsubnets" {

vpc\_id = aws\_vpc.Main.id

cidr\_block = "10.0.1.0/24"

availability\_zone = "us-east-2a"

tags = {

Name = "publicsubnets"

}

resource "aws\_subnet" "privatesubnets" {

vpc\_id = aws\_vpc.Main.id

cidr\_block = "10.0.2.0/24"

availability\_zone = "us-east-2b"

tags = {

Name = "privatesubnets"

}

}

resource "aws\_route\_table" "PublicRT" {

vpc\_id = aws\_vpc.Main.id

tags = {

Name = "PublicRT"

}

route {

cidr\_block = "0.0.0.0/0"

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

}

}

resource "aws\_route\_table" "PrivateRT" {

vpc\_id = aws\_vpc.Main.id

tags = {

Name = "PrivateRT"

}

route {

cidr\_block = "0.0.0.0/0"

nat\_gateway\_id = aws\_nat\_gateway.NATgw.id

}

}

resource "aws\_route\_table\_association" "PublicRTassociation" {

subnet\_id = aws\_subnet.publicsubnets.id

route\_table\_id = aws\_route\_table.PublicRT.id

}

resource "aws\_route\_table\_association" "PrivateRTassociation" {

subnet\_id = aws\_subnet.privatesubnets.id

route\_table\_id = aws\_route\_table.PrivateRT.id

}

resource "aws\_eip" "nateIP" {

vpc = true

}

resource "aws\_nat\_gateway" "NATgw" {

allocation\_id = aws\_eip.nateIP.id

subnet\_id = aws\_subnet.publicsubnets.id

tags = {

Name = "NATgw"

}

}

cat main.tf

Vi network.tf

resource "aws\_security\_group" "httpssh" {

vpc\_id = aws\_vpc.Main.id

egress {

from\_port = 0

to\_port = 0

protocol = -1

cidr\_blocks = ["0.0.0.0/0"]

}

ingress {

from\_port = 22

to\_port = 22

protocol = "tcp"

cidr\_blocks = ["0.0.0.0/0"]

}

ingress {

from\_port = 80

to\_port = 80

protocol = "tcp"

cidr\_blocks = ["0.0.0.0/0"]

}

tags = {

Name = "httpssh"

}

}

resource "aws\_instance" "public" {

ami = "ami-0b9064170e32bde34"

associate\_public\_ip\_address = "true"

instance\_type = "t2.micro"

key\_name = "myvpc"

vpc\_security\_group\_ids = [aws\_security\_group.httpssh.id]

subnet\_id = aws\_subnet.publicsubnets.id

tags = {

Name = "public"

}

}

resource "aws\_instance" "private" {

ami = "ami-0b9064170e32bde34"

associate\_public\_ip\_address = "false"

instance\_type = "t2.micro"

key\_name = "myvpc"

vpc\_security\_group\_ids = [aws\_security\_group.httpssh.id]

subnet\_id = aws\_subnet.privatesubnets.id

tags = {

Name = "private"

}

}

cat network.tf

vi variables.tf

variable "region" {}

variable "main\_vpc\_cidr" {}

variable "public\_subnets" {}

variable "private\_subnets" {}

cat variables.tf