Text

Description automatically generated with medium confidence

**Main.tf:-**

provider "aws" {

region = terraform.workspace == "default" ? "us-east-1" : "us-west-2"

}

#Get Linux AMI ID using SSM Parameter endpoint in us-east-1

data "aws\_ssm\_parameter" "linuxAmi" {

name = "/aws/service/ami-amazon-linux-latest/amzn2-ami-hvm-x86\_64-gp2"

}

#Create and bootstrap EC2 in us-east-1

resource "aws\_instance" "ec2-vm" {

ami = data.aws\_ssm\_parameter.linuxAmi.value

instance\_type = "t3.micro"

associate\_public\_ip\_address = true

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

subnet\_id = aws\_subnet.subnet.id

tags = {

Name = "${terraform.workspace}-ec2"

}

}

**Network.tf:-**

#Create VPC in us-east-1

resource "aws\_vpc" "vpc\_master" {

cidr\_block = "10.0.0.0/16"

tags = {

Name = "${terraform.workspace}-vpc"

}

}

#Get all available AZ's in VPC for master region

data "aws\_availability\_zones" "azs" {

state = "available"

}

#Create subnet # 1 in us-east-1

resource "aws\_subnet" "subnet" {

availability\_zone = element(data.aws\_availability\_zones.azs.names, 0)

vpc\_id = aws\_vpc.vpc\_master.id

cidr\_block = "10.0.1.0/24"

tags = {

Name = "${terraform.workspace}-subnet"

}

}

#Create SG for allowing TCP/22 from anywhere, THIS IS FOR TESTING ONLY

resource "aws\_security\_group" "sg" {

name = "${terraform.workspace}-sg"

description = "Allow TCP/22"

vpc\_id = aws\_vpc.vpc\_master.id

ingress {

description = "Allow 22 from our public IP"

from\_port = 22

to\_port = 22

protocol = "tcp"

cidr\_blocks = ["0.0.0.0/0"]

}

egress {

from\_port = 0

to\_port = 0

protocol = "-1"

cidr\_blocks = ["0.0.0.0/0"]

}

tags = {

Name = "${terraform.workspace}-securitygroup"

}

}

A picture containing background pattern

Description automatically generated

Graphical user interface, text, application, chat or text message

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated