Providers.tf

terraform {  
 required\_providers {  
 aws = {  
 source = "hashicorp/aws"  
 version = "6.0.0"  
 }  
 }  
}  
  
provider "aws" {  
 region = "us-east-1"  
}

securitygroup.tf

resource "aws\_vpc" "babaji-vpc"{  
 cidr\_block = var.vpccidr  
 tags={  
 Name = var.vpcname  
 }  
}  
resource "aws\_subnet" "babaji-pub"{  
 vpc\_id = aws\_vpc.babaji-vpc.id  
 cidr\_block = var.pubsubcidr  
 availability\_zone = var.pubaz  
 map\_public\_ip\_on\_launch = true  
 tags={  
 Name = var.pubsubname  
 }  
}  
resource "aws\_subnet" "babaji-pri"{  
 vpc\_id = aws\_vpc.babaji-vpc.id  
 cidr\_block = var.prisubcidr  
 availability\_zone = var.priaz  
 tags= {  
 Name = var.prisubname  
 }  
}  
resource "aws\_internet\_gateway" "babaji-igw"{  
 vpc\_id =aws\_vpc.babaji-vpc.id  
 tags={  
 Name = var.babajiigw  
 }  
}  
resource "aws\_route\_table" "babaji-rt"{  
 vpc\_id = aws\_vpc.babaji-vpc.id  
 route{  
 cidr\_block = var.rtcidr  
 gateway\_id = aws\_internet\_gateway.babaji-igw.id  
 }  
 tags={  
 Name = var.rtname  
 }  
}  
resource "aws\_route\_table\_association" "pubrt"{  
 route\_table\_id = aws\_route\_table.babaji-rt.id  
 subnet\_id = aws\_subnet.babaji-pub.id  
}  
resource "aws\_security\_group" "babajiSG"{  
 description = "Allow SSH, HTTP and HTTPs"  
 vpc\_id = aws\_vpc.babaji-vpc.id  
 ingress {  
 description ="allow ssh"  
 from\_port = "22"  
 to\_port = "22"  
 protocol = "tcp"  
 cidr\_blocks = var.inboundcidr  
 }  
 ingress {  
 description ="allow HTTP"  
 from\_port ="80"  
 to\_port ="80"  
 protocol ="tcp"  
 cidr\_blocks = var.inboundcidr1  
 }  
 ingress {  
 description ="allow https"  
 from\_port ="443"  
 to\_port ="443"  
 protocol = "tcp"  
 cidr\_blocks = var.inboundcidr2  
 }  
 egress {  
 description= "allow outbound traffic"  
 from\_port = "0"  
 to\_port = "0"  
 protocol = "-1"  
 cidr\_blocks = var.outboundcidr  
 }  
 tags={  
 Name = var.sgname  
 }  
}

variables.tf

variable "vpccidr" {  
}  
variable "vpcname" {  
}  
variable "sgname"{  
}  
variable "inboundcidr"{}  
variable "inboundcidr1"{}  
variable "inboundcidr2"{}  
variable "outboundcidr"{}  
variable "pubsubcidr" {}  
variable "pubaz" {}  
variable "pubsubname" {}  
variable "prisubcidr" {}  
variable "priaz" {}  
variable "prisubname" {}  
variable "babajiigw" {}  
variable "rtcidr" {}  
variable "rtname" {}

terraform.tfvars

vpccidr ="10.0.0.0/20"  
vpcname ="babaji-vpc"  
sgname ="babaji-sg"  
inboundcidr =["0.0.0.0/0"]  
inboundcidr1=["0.0.0.0/0"]  
inboundcidr2=["0.0.0.0/0"]  
outboundcidr=["0.0.0.0/0"]  
pubsubcidr="10.0.1.0/24"  
pubaz="us-east-1a"  
pubsubname="babaji-pub-sub"  
prisubcidr="10.0.2.0/24"  
priaz="us-east-1a"  
prisubname="babaji-pri-sub"  
babajiigw="babaji-igw"  
rtcidr="0.0.0.0/0"  
rtname="babaji-rt"