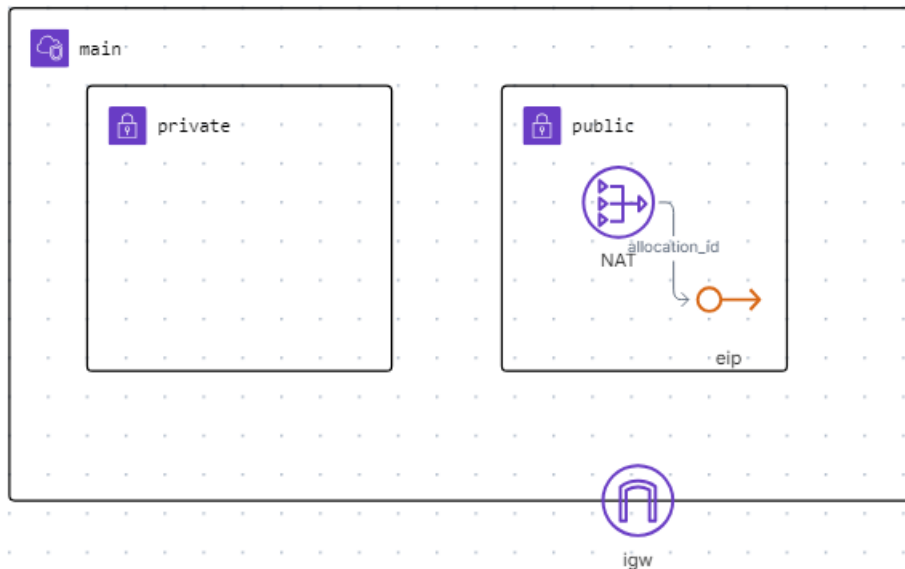


# VPC with Subnets & NAT gateway



```
provider "aws" {  
  region = "us-east-1"  
  profile = "terraform"  
}
```

```
resource "aws_vpc" "main" {  
  cidr_block = "10.0.0.0/16"  
  tags = {  
    Name = "main_vpc"  
  }  
}  
  
resource "aws_internet_gateway" "igw" {  
  vpc_id = aws_vpc.main.id  
  tags = {  
    Name = "main_igw"  
  }  
}  
  
resource "aws_subnet" "public" {  
  vpc_id = aws_vpc.main.id  
  cidr_block = "10.0.1.0/24"  
  availability_zone = "us-east-1a"  
  tags = {  
    Name = "subnet_public"  
  }  
}
```

```

resource "aws_subnet" "private" {
  vpc_id = aws_vpc.main.id
  cidr_block = "10.0.2.0/24"
  availability_zone = "us-east-1a"
  tags = {
    Name = "subnet_private"
  }
}

resource "aws_eip" "eip" {
  domain = "vpc"
}

resource "aws_nat_gateway" "NAT" {
  allocation_id = aws_eip.eip.id
  subnet_id = aws_subnet.public.id
}

```


```


aws_eip.eip: Creating...
aws_vpc.main: Creating...
aws_eip.eip: Creation complete after 2s [id=eipalloc-02bf7f74f393c4072]
aws_vpc.main: Creation complete after 4s [id=vpc-05d2520d9e74bcfb0]
aws_subnet.public: Creating...
aws_internet_gateway.igw: Creating...
aws_subnet.private: Creating...
aws_internet_gateway.igw: Creation complete after 2s [id=igw-044b0cf75cdd694f2]
aws_subnet.public: Creation complete after 2s [id=subnet-0addf6fc0f2033aef]
aws_nat_gateway.NAT: Creating...
aws_subnet.private: Creation complete after 2s [id=subnet-057082f9be7ab75d2]
aws_nat_gateway.NAT: Still creating... [10s elapsed]
aws_nat_gateway.NAT: Still creating... [20s elapsed]
aws_nat_gateway.NAT: Still creating... [30s elapsed]
aws_nat_gateway.NAT: Still creating... [40s elapsed]
aws_nat_gateway.NAT: Still creating... [50s elapsed]
aws_nat_gateway.NAT: Still creating... [1m0s elapsed]
aws_nat_gateway.NAT: Still creating... [1m10s elapsed]
aws_nat_gateway.NAT: Still creating... [1m20s elapsed]
aws_nat_gateway.NAT: Still creating... [1m30s elapsed]
aws_nat_gateway.NAT: Still creating... [1m40s elapsed]
aws_nat_gateway.NAT: Creation complete after 1m48s [id=nat-0ea909c09a7f8d29b]



Apply complete! Resources: 6 added, 0 changed, 0 destroyed.
adham@master:/adhamterraform/vpc$ █

```


## Your VPCs (2) [Info](#)



Last updated  
less than a minute ago 

 Search


<input type="checkbox"/>	Name	VPC ID	State	Block Public...	IPv4 CIDR
<input type="checkbox"/>	main_vpc	<a href="#">vpc-05d2520d9e74bcfb0</a>	 Available	 Off	10.0.0.0/16


## Subnets (2) [Info](#)

 Find resources by attribute or tag


<input type="checkbox"/>	Name	Subnet ID	State
<input type="checkbox"/>	subnet_public	<a href="#">subnet-0addf6fc0f2033aef</a>	 Available
<input type="checkbox"/>	subnet_private	<a href="#">subnet-057082f9be7ab75d2</a>	 Available

## NAT gateways (1) [Info](#)

 Find resources by attribute or tag

<input type="radio"/>	Name	NAT gateway ID	Connectivity...	State
<input type="radio"/>	-	<a href="#">nat-0ea909c09a7f8d29b</a>	Public	 Available

## Elastic IP addresses (1)

 Find resources by attribute or tag

<input type="checkbox"/>	Name	Allocated IPv4 addr...	Type
<input type="checkbox"/>	-	<a href="#">100.28.96.111</a>	Public IP