

Create a VPC with a public subnet, a private subnet, an internet gateway and a default route table with a route for the public subnet to use the internet gateway using variable block of terraform

resource.tf :

```
resource.tf > ...
74  resource "aws_vpc" "my_vpc" {
75      cidr_block = "10.0.0.0/16"
76      tags = {
77          Name = "MyVPC"
78      }
79  }
80
81  # Create public subnet
82  resource "aws_subnet" "public_subnet" {
83      vpc_id      = aws_vpc.my_vpc.id
84      cidr_block   = "10.0.1.0/24"
85      availability_zone = "us-east-1a"
86      tags = {
87          Name = "Pub_Subnet"
88      }
89  }
90
91  # Create private subnet
92  resource "aws_subnet" "private_subnet" {
93      vpc_id      = aws_vpc.my_vpc.id
94      cidr_block   = "10.0.2.0/24"
95      availability_zone = "us-east-1a"
96      tags = {
97          Name = "Pri_Subnet"
98      }
99  }
100
101  # Create internet gateway
102  resource "aws_internet_gateway" "my_igw" {
103      vpc_id = aws_vpc.my_vpc.id
104      tags = {
105          Name = "Internet_Gateway"
106      }
107  }
```

```

109 # Create default route table
110 resource "aws_default_route_table" "default_route_table" {
111     default_route_table_id = aws_vpc.my_vpc.default_route_table_id
112 }
113
114
115 # Create route for public subnet to use the internet gateway
116 resource "aws_route" "public_subnet_route_to_igw" {
117     route_table_id         = aws_default_route_table.default_route_table.
118     destination_cidr_block = "0.0.0.0/0"
119     gateway_id              = aws_internet_gateway.my_igw.id
120
121 }
122

```

Output

Your VPCs (1/5)

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR	DHCP option set
myvpc-sona	vpc-0d174854cd4141c93	Available	10.0.0.0/16	-	dopt-0089a223e63ece3...
MyVPC	vpc-0c2f3bdaecae16ce9	Available	10.0.0.0/16	-	dopt-0089a223e63ece3...
sona-abc-vpc	vpc-0ccf5642377d7eb93	Available	10.0.0.0/16	-	dopt-0089a223e63ece3...
mynewvpc-s-vpc	vpc-0fc90299c60d92709	Available	10.0.0.0/16	-	dopt-0089a223e63ece3...
vpc-original	vpc-09e110c70c4d3bb46	Available	172.31.0.0/16	-	dopt-0089a223e63ece3...

Network diagram showing: MyVPC virtual network, subnets (Pri_Subnet, Pub_Subnet) in us-east-1a, route table (rtb-0c34967f5a6ff7bc2), and Internet Gateway.

Subnets (2/10)

Name	Subnet ID	State	VPC	IPv4 CIDR
-	subnet-08f8e8818bd2861b7	Available	vpc-09e110c70c4d3bb46 vpc-...	172.31.48.0/20
myvpc-sonal-subnet-public1-us-east-1a	subnet-0e4b0d6c6c5b93f83	Available	vpc-0d174854cd4141c93 myv...	10.0.0.0/20
Pri_Subnet	subnet-072fd1ba6200bf281	Available	vpc-0b4f297fd5c21c38 MyVPC	10.0.2.0/24
Pub_Subnet	subnet-07d5deef87d4fd4c2	Available	vpc-0b4f297fd5c21c38 MyVPC	10.0.1.0/24
-	subnet-0988bfc042c344fb6	Available	vpc-09e110c70c4d3bb46 vpc-...	172.31.32.0/20
-	subnet-031dd306f58591f46	Available	vpc-09e110c70c4d3bb46 vpc-...	172.31.64.0/20

Subnets: subnet-072fd1ba6200bf281, subnet-07d5deef87d4fd4c2

The screenshot shows the AWS IAM console interface. The top navigation bar includes the AWS logo, 'Services' dropdown, a search bar, and the user's profile 'aroh' with a phone number. The left sidebar shows the 'Virtual private cloud' section expanded, with 'Internet gateways' selected. The main content area displays the 'Internet gateways (1/5)' page. A search bar is at the top of the list. Below it, a table lists the internet gateways. The 'Internet_Gateway' is selected, indicated by a blue checkmark in the first column. The table has columns for Name, Internet gateway ID, State, VPC ID, and Owner. The 'Internet_Gateway' has a state of 'Attached' and is associated with the VPC 'vpc-0c2f3bdae16ce91MyVPC'.

	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	mynewvpc-s-igw	igw-0018dade1379a2d2f	Attached	vpc-0fc90299c6d92709 mynewvpc-s...	3554245...
<input type="checkbox"/>	myvpc-sonal-igw	igw-0092b6529e3a48081	Attached	vpc-0d174854cd4141c93 myvpc-sona	3554245...
<input type="checkbox"/>	sona-abc-igw	igw-05f9ab24090754de8	Attached	vpc-0ccf5642377d7eb93 sona-abc-vpc	3554245...
<input type="checkbox"/>	-	igw-0af565dc6dc6d7d84	Attached	vpc-09e110c70c4d3bb46 vpc-original	3554245...
<input checked="" type="checkbox"/>	Internet_Gateway	igw-0f8f7a49681c6380a	Attached	vpc-0c2f3bdae16ce91MyVPC	3554245...