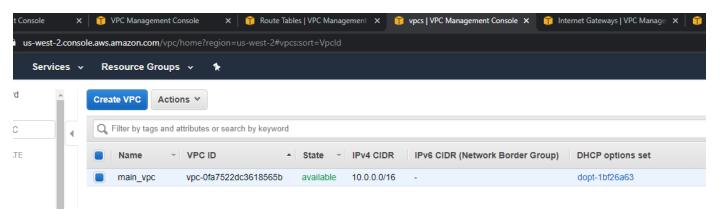
VPC Creation:

AWS /VPC:



Subnetting:

2 Public and 2 private subnets were created with each being in a different AZ

```
resource "aws_subnet" "public_subnet_1" {
  vpc_id = "${aws_vpc.main_vpc.id}"
  cidr_block = "10.0.0.0/24"
  map_public_ip_on_launch = "true"
  availability_zone = "us-west-2a"

tags = {
  Name = "public_subnet_1"
  }
}
```

```
references
resource "aws_subnet" "private_subnet_1" {
  vpc_id = "${aws_vpc.main_vpc.id}"
  cidr_block = "10.0.2.0/24"
  availability_zone = "us-west-2c"

tags = {
  Name = "private_subnet_1"
  }
}
```

```
references
resource "aws_subnet" "private_subnet_2" {
    vpc_id = "${aws_vpc.main_vpc.id}"
    cidr_block = "10.0.3.0/24"
    availability_zone = "us-west-2d"

tags = {
    Name = "private_subnet_2"
    }
}
```

AWS /VPC/Subnets:

Q Filter by tags and attributes or search by keyword								
	I liter by tays and autibutes of search by keyword							
	Name	▼	Subnet ID	•	State -	VPC -	IPv4 CIDR	
	public	_subnet_1	subnet-02e5ead0674034549		available	vpc-0fa7522dc3618565b	10.0.0.0/24	2
	private	e_subnet_1	subnet-0366c93cf958da8b8		available	vpc-0fa7522dc3618565b	10.0.2.0/24	2
	private	e_subnet_2	subnet-0584cdc0012a0166f		available	vpc-0fa7522dc3618565b	10.0.3.0/24	2
	public	subnet_2	subnet-05df233403be81d2c		available	vpc-0fa7522dc3618565b	10.0.1.0/24	2

Route Tables:

```
references
resource "aws_route_table" "public_route_table" {
   vpc_id = "${aws_vpc.main_vpc.id}"

route {
   cidr_block = "0.0.0.0/0"
   gateway_id = "${aws_internet_gateway.internet_gateway.id}"
}

tags = {
   Name = "public_route_table"
}
```

```
2 references
resource "aws_route_table" "private_route_table" {
   vpc_id = "${aws_vpc.main_vpc.id}"

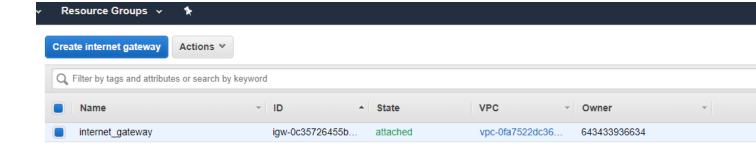
  tags = {
   Name = "private_route_table"
  }
}
```

Internet Gateway:

```
resource "aws_internet_gateway" "internet_gateway" {
   vpc_id = "${aws_vpc.main_vpc.id}"

  tags = {
   Name = "internet_gateway"
  }
}
```

AWS /VPC/Internet Gateways:



Route Tables:

2 Route tables were created, one for public subnets and one for private subnets

```
references
resource "aws_route_table" "public_route_table" {
  vpc_id = "${aws_vpc.main_vpc.id}"

route {
  cidr_block = "0.0.0.0/0"
  gateway_id = "${aws_internet_gateway.internet_gateway.id}"
}

tags = {
  Name = "public_route_table"
}
```

```
resource "aws_route_table" "private_route_table" {
   vpc_id = "${aws_vpc.main_vpc.id}"

  tags = {
   Name = "private_route_table"
  }
}
```

Associating route tables with subnets:

```
resource "aws_route_table_association" "public_association_1" {
  subnet id = "${aws subnet.public subnet 1.id}"
 route table id = "${aws route table.public route table.id}"
resource "aws_route_table_association" "public_association_2" {
 subnet id = "${aws subnet.public subnet 2.id}"
 route_table_id = "${aws_route_table.public_route_table.id}"
resource "aws_route_table_association" "private_association_1" {
 subnet id = "${aws subnet.private subnet 1.id}"
 route_table_id = "${aws route table.private route table.id}"
resource "aws_route_table_association" "private_association_2" {
 subnet id = "${aws subnet.private subnet 2.id}"
 route table id = "${aws route table.private route table.id}"
```

Final result on AWS:

