Experiment 8

1. Create a Terraform Directory:

```
singhthatcodes@JAPJEETs-MacBook-Pro spcm % mkdir terraform-vpc && cd terraform-vpc singhthatcodes@JAPJEETs-MacBook-Pro terraform-vpc %
```

2. Create Config files:

```
provider "aws" {
  region = "ap-south-1"
  access_key = "AKIAVU2WWA23XD2BCN6J"
        secret_key = "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"
}

resource "aws_vpc" "my_vpc" {
  cidr_block = "10.0.0/16"
  enable_dns_support = true
  enable_dns_hostnames = true
  tags = {
  Name = "MyVPC"
}
}
resource "aws_subnet" "my_subnet" {
  count = 2
  vpc_id = aws_vpc.my_vpc.id
  cidr_block = "10.0.${count.index + 1}.0/24"
  availability_zone = "ap-south-1a"
  map_public_ip_on_launch = true
  tags = {
  Name = "MySubnet-${count.index + 1}"
}
}
```

3. terraform init

```
Initializing the backend...

Initializing provider plugins...

- Finding latest version of hashicorp/aws...

- Installing hashicorp/aws v5.38.0...

- Installed hashicorp/aws v5.38.0 (signed by HashiCorp)

Terraform has created a lock file .terraform.lock.hel to record the provider selections it made above. Include this file in your version control repository so that Terraform can guarantee to make the same selections by default when you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary. singhthatcodes@JAPJEETS-MacBook-Pro terraform-vpc %
```

4. terraform apply

```
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```

5. Terraform destroy:

```
Plan: 0 to add, 0 to change, 3 to destroy.

Do you really want to destroy all resources?

Terraform will destroy all your managed infrastructure, as shown above. There is no undo. Only 'yes' will be accepted to confirm.

Enter a value: yes

aws_subnet.my_subnet[1]: Destroying... [id=subnet-0b330b422adef9a3a]
aws_subnet.my_subnet[0]: Destroying... [id=subnet-09086f051651bfba7]
aws_subnet.my_subnet[0]: Destruction complete after 1s
aws_subnet.my_subnet[1]: Destruction complete after 1s
aws_vpc.my_vpc: Destroying... [id=vpc-08ecd654fbe2c8937]
aws_vpc.my_vpc: Destruction complete after 0s

Destroy complete! Resources: 3 destroyed.
singhthatcodes@JAPJEETs-MBP terraform-vpc %
```