EXPERIMENT – 9

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Batch – 3 [DevOps Non-Hons]
SAP ID- 500094778
Subject – System Provisioning and Configuration Management Lab

Aim: Creating Multiple EC2 Instances with for each in Terraform.

1] Create a Terraform Configuration File (main.tf)

main.tf instance.tf

main.tf > terraform

```
terraform {
required_providers {
    aws = {
        source = "hashicorp/aws"
        version = "5.31.0"
          }
}
}

provider "aws" {

region = "ap-south-1"
access_key = "AKIATJHVFEM7OWRV3DM7"
secret_key = "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"
}
```

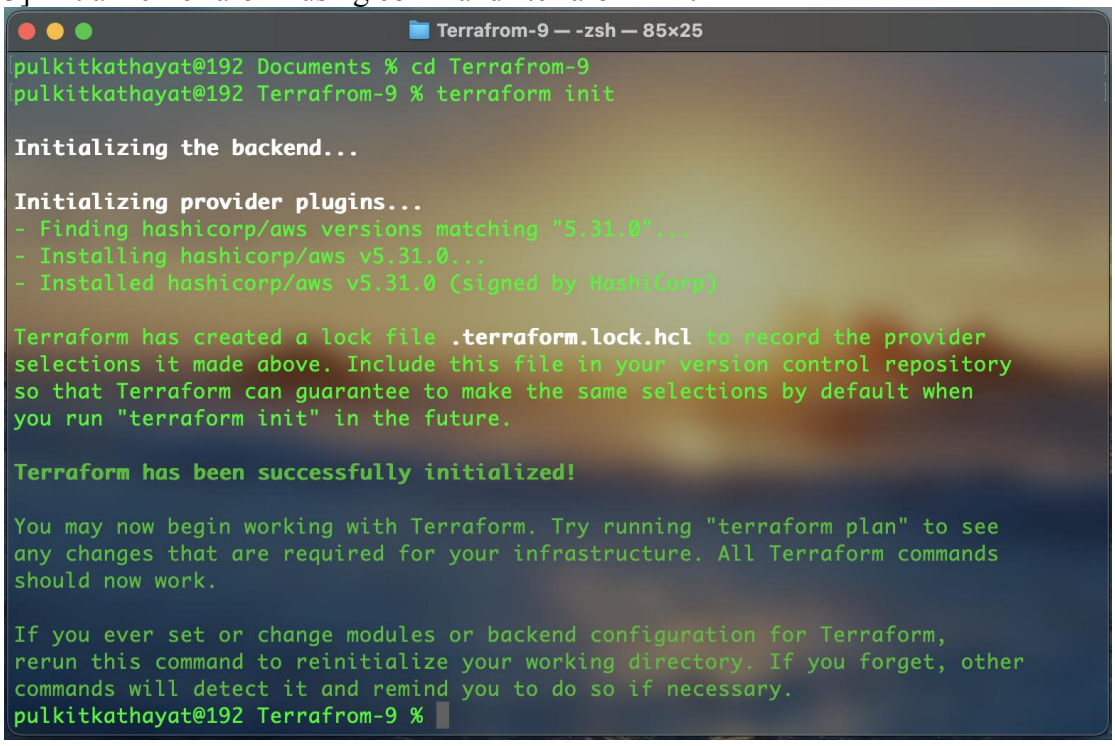
2] Create new file name as “instance.tf”

main.tf | instance.tf

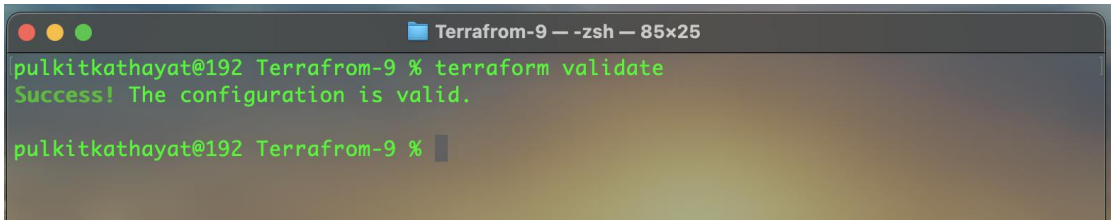
instance.tf > variable "instances" > default > instance3 > instance_type

```
resource "aws_instance" "ec2_instances" {
}

variable "instances" {
    description = "Map of EC2 instances with settings"
    default = {
        "instance1" = {
            ami = "ami-03f4878755434977f"
            instance_type="t2.micro"
        },
        "instance2"={
            ami = "ami-03f4878755434977f"
            instance_type="t2.micro"
        },
        "instance3"={
            ami = "ami-03f4878755434977f"
            instance_type="t2.micro"
        }
    }

}
```

3] Initialize Terraform using command “terraform init”



4] Validate it using command “terraform validate



5] Check the Plan using command “terraform plan”