SPCM LAB-5

Objective: Learn how to pass values to Terraform variables using command line arguments.

- Create a file variable.tf with the following contents.

```
gauravbhandari@gauravs-MacBook-Air-2 aws-terraform-demo % touch variable.tf
```

instance.tf | variable.tf

variable.tf > variable "countNumber"

```
variable "ubuntu_ami" {
  type    = string
  default = "ami-03f4878755434977f"
}
variable "instance_type" {
  type    = string
  default = "t2.micro"
}
variable "countNumber" {
  type    = number
  default = 1
}
```

- Use the variable declared and defined in variable.tf in instance.tf

instance.tf | variable.tf

instance.tf > ...

```
resource "aws_instance" "UPES1" {
  ami           = var.ubuntu_ami
  instance_type = var.instance_type
  count         = var.countNumber
  tags = {
    Name = "My-ec2"
  }
}
```

- Run the command terraform plan and review the plan to see if it meets your expectations

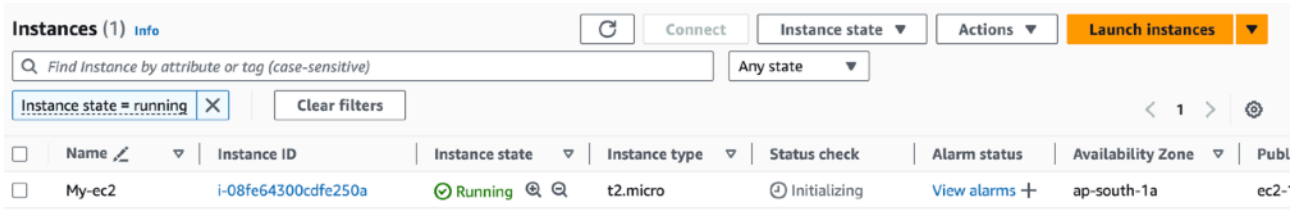
```
gauravbhandari@gauravs-MacBook-Air-2 aws-terraform-demo % terraform plan -var "ubuntu_ami=ami-03f4878755434
977f" -var "instance_type
=t2.micro" -var "countNumber=1"
```

```
      + user_data_replace_on_change          = false
      + vpc_security_group_ids               = (known after apply)
    }

Plan: 1 to add, 0 to change, 0 to destroy.

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these
actions if you run "terraform apply" now.
```

- Run terraform apply and create the resources.

```
gauravbhandari@gauravs-MacBook-Air-2 aws-terraform-demo % terraform apply -var "ubuntu_ami=ami-03f487875543
4977f" -var "instance_type=t2.micro" -var "countNumber=1"
```

```
Plan: 1 to add, 0 to change, 0 to destroy.
aws_instance.UPES1[0]: Creating...
aws_instance.UPES1[0]: Still creating... [10s elapsed]
aws_instance.UPES1[0]: Still creating... [20s elapsed]
aws_instance.UPES1[0]: Still creating... [30s elapsed]
aws_instance.UPES1[0]: Creation complete after 33s [id=i-08fe64300cdfe250a]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
```



- When you are done experimenting, run the following command to destroy the created resources.

```
Plan: 0 to add, 0 to change, 1 to destroy.
aws_instance.UPES1[0]: Destroying... [id=i-08fe64300cdfe250a]
aws_instance.UPES1[0]: Still destroying... [id=i-08fe64300cdfe250a, 10s elapsed]
aws_instance.UPES1[0]: Still destroying... [id=i-08fe64300cdfe250a, 20s elapsed]
aws_instance.UPES1[0]: Still destroying... [id=i-08fe64300cdfe250a, 30s elapsed]
aws_instance.UPES1[0]: Destruction complete after 32s

Destroy complete! Resources: 1 destroyed.
```