

Experiment-5

Lab Exercise 5– Terraform Variables with Command Line Arguments

1. Use Command Line Arguments:

```
variables.tf > variable "instance_type"
1  variable "ami" {
2      description = "AWS ami"
3      default = ""
4  }
5  variable "region" {
6      description = "AWS region"
7      default = ""
8  }
9  variable "instance_type" {
10     description = "AWS Instance Type"
11     default = ""
12 }
```

```
PS C:\Users\pulki\OneDrive\Desktop\Terraform\Lab\Lab-2> terraform init

Initializing the backend...

Initializing provider plugins...
- Reusing previous version of hashicorp/aws from the dependency lock file
- Using previously-installed hashicorp/aws v5.31.0

Terraform has been successfully initialized!
```

```
PS C:\Users\pulki\OneDrive\Desktop\Terraform\Lab\Lab-2> terraform apply -var 'ami=ami-05fb0b8c1424f266b' -var 'region=us-east-2' -var 'instance_type=t2.micro'

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create

Terraform will perform the following actions:

# aws_instance.My-Instance[0] will be created
+ resource "aws_instance" "My-Instance" {
+   ami           = "ami-05fb0b8c1424f266b"
+   ...
}
```

2. Test and Verify:

Instances (3) Info							
<input type="text" value="Find Instance by attribute or tag (case-sensitive)"/>				Any state		< 1 >	
<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zo
<input type="checkbox"/>	Jenkins-Project	i-0d1f99e76fbed104	⊖ Stopped	t2.micro	–	View alarms +	us-east-2a
<input type="checkbox"/>	terraform-tut...	i-0f397c583990407ce	⊖ Stopped	t2.micro	–	View alarms +	us-east-2a
<input type="checkbox"/>	UPES-EC2-INS...	i-033c13302a723d11c	⊕ Running	t2.micro	⊕ 2/2 checks passed	View alarms +	us-east-2a

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3. Clean Up:

```
# aws_instance.Siddharth-ec2 will be destroyed
- resource "aws_instance" "Siddharth-ec2" {
  - ami                        = "ami-05fb0b8c1424f266b" -> null
  - arn                      = "arn:aws:ec2:us-east-2:375913183126:instance/i-06fdaa02802665bc8" -> null
  - associate_public_ip_address = true -> null
  - availability_zone          = "us-east-2c" -> null
  - cpu_core_count             = 1 -> null
  - cpu_threads_per_core       = 1 -> null
  - disable_api_stop           = false -> null
  - disable_api_termination    = false -> null
  - ebs_optimized              = false -> null
  - get_password_data          = false -> null
  - hibernation                 = false -> null
  - id                        = "i-06fdaa02802665bc8" -> null
  - instance_initiated_shutdown_behavior = "stop" -> null
  - instance_state             = "running" -> null
  - instance_type              = "t2.micro" -> null
  - ipv6_address_count         = 0 -> null
  - ipv6_addresses             = [] -> null
  - monitoring                  = false -> null
  - placement_partition_number = 0 -> null
  - primary_network_interface_id = "eni-090464c8e2e8913e8" -> null
  - private_dns                = "ip-172-31-38-180.us-east-2.compute.internal" -> null
  - private_ip                 = "172.31.38.180" -> null
  - public_dns                  = "ec2-3-134-115-199.us-east-2.compute.amazonaws.com" -> null
  - public_ip                   = "3.134.115.199" -> null
  - secondary_private_ips       = [] -> null
  - security_groups             = [
    - "default",
  ] -> null
  - source_dest_check           = true -> null
```

```
aws_instance.Siddharth-ec2: Destroying... [id=i-06fdaa02802665bc8]
aws_instance.Siddharth-ec2: Still destroying... [id=i-06fdaa02802665bc8]
aws_instance.Siddharth-ec2: Still destroying... [id=i-06fdaa02802665bc8]
aws_instance.Siddharth-ec2: Still destroying... [id=i-06fdaa02802665bc8]
aws_instance.Siddharth-ec2: Destruction complete after 32s
```

Destroy complete! Resources: 1 destroyed.

PS D:\SEMESTER 6\System Pro LAB\SPCM-LAB-JAN-JUNE-2024\aws-terraform-