



System Provisioning and Configuration Management Lab

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Batch - 3

Experiment 5

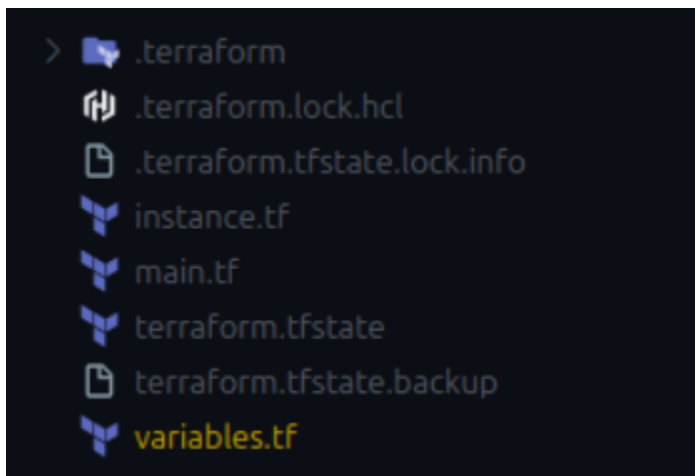
Terraform Variables with Command Line Arguments

Aim

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

Steps

1. Create a main file & terraform configuration file for EC2 Instance (instance.tf) & add variables to them.



```
instance.tf
1  resource "aws_instance" "Ayroid-ec2" {
2      instance_type = var.instance_type
3      ami = var.ami
4      count = 1
5
6      tags = {
7          Name = "Exp5-Instance"
8      }
9  }
```

2. Open a new file named variables.tf. Define variables for region, ami, secret_key, access_key and instance_type.

```
variables.tf
1  variable region {
2      type      = string
3      default   = "ap-south-1"
4      description = "AWS Region"
5  }
6
7  variable "ami"{
8      type = string
9      default = "ami-03f4878755434977f"
10     description = "AMI ID"
11 }
12
13 variable "instance_type"{
14     type = string
15     default = "t2.micro"
16     description = "Instance Type"
17 }
```

3. Run the following Terraform commands to initialize and apply the configuration & pass variables as command line arguments

```
+ Exp2 terraform apply -var 'region=ap-south-1' -var 'ami=ami-03f4878755434977f' -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.Ayroid-ec2[0] will be created
+ resource "aws_instance" "Ayroid-ec2" {
```

4. Verify resources

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check
<input type="checkbox"/>	Exp5-Instance	i-053e9d2e65fe5dad4	Running	t2.micro	Initializing

5. Cleanup resources

```
Plan: 0 to add, 0 to change, 1 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_instance.Ayroid-ec2[0]: Destroying... [id=i-0ef2442dc277b6b86]
aws_instance.Ayroid-ec2[0]: Still destroying... [id=i-0ef2442dc277b6b86, 10s elapsed]
aws_instance.Ayroid-ec2[0]: Still destroying... [id=i-0ef2442dc277b6b86, 20s elapsed]
aws_instance.Ayroid-ec2[0]: Still destroying... [id=i-0ef2442dc277b6b86, 30s elapsed]
aws_instance.Ayroid-ec2[0]: Destruction complete after 32s

Destroy complete! Resources: 1 destroyed.
```