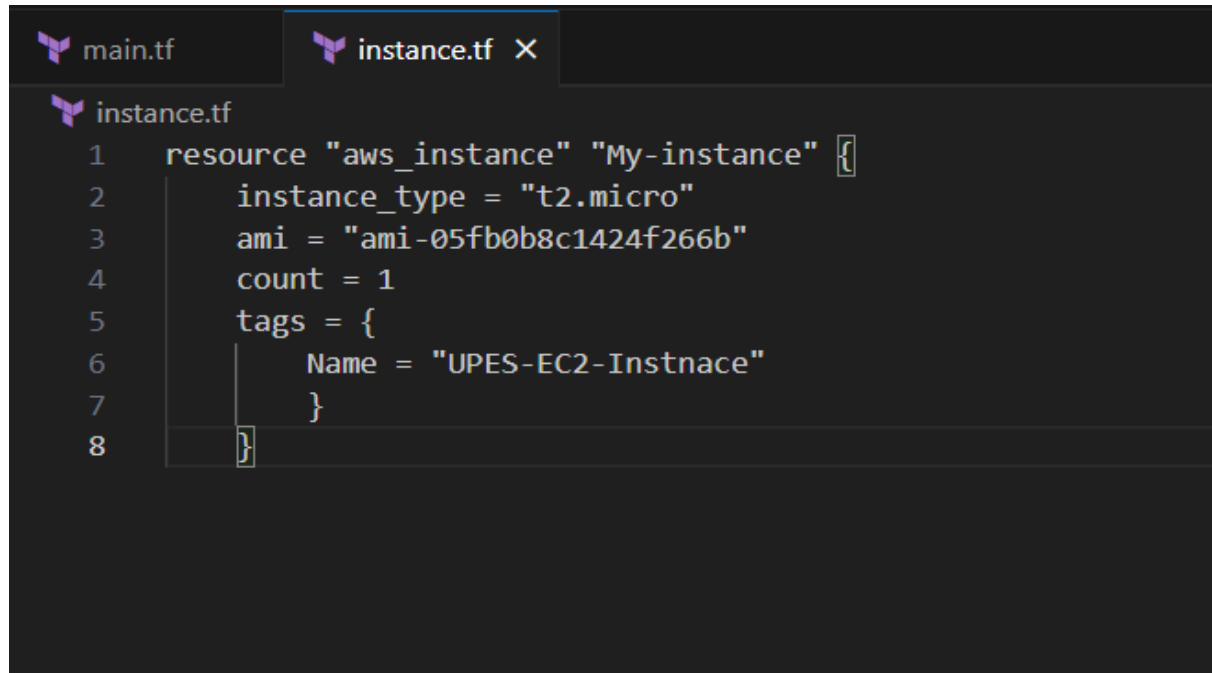


## Lab Exercise 3

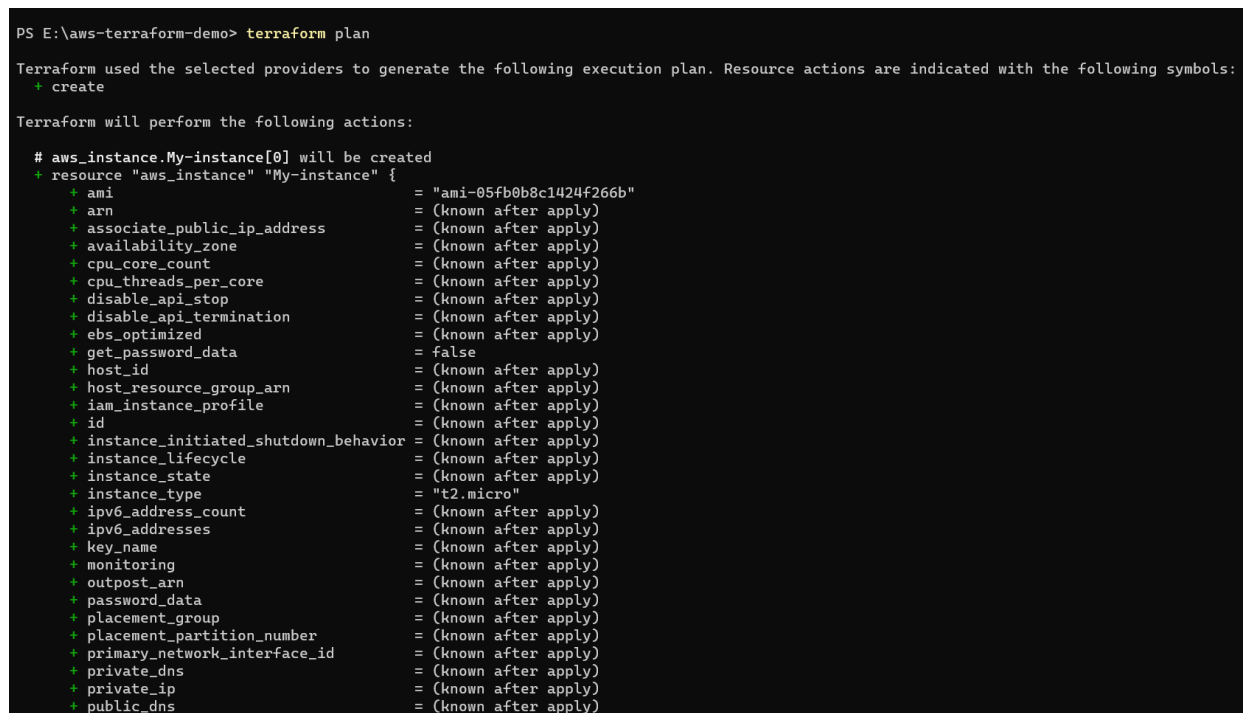
### Provisioning an EC2 Instance on AWS

#### 1. Create Terraform Configuration File for EC2 instance (instance.tf):



```
main.tf  instance.tf X
instance.tf
1  resource "aws_instance" "My-instance" {
2      instance_type = "t2.micro"
3      ami = "ami-05fb0b8c1424f266b"
4      count = 1
5      tags = {
6          Name = "UPES-EC2-Instnace"
7      }
8  }
```

#### 2. Review Plan:



```
PS E:\aws-terraform-demo> terraform plan

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"
  + arn                   = (known after apply)
  + associate_public_ip_address = (known after apply)
  + availability_zone      = (known after apply)
  + cpu_core_count        = (known after apply)
  + cpu_threads_per_core   = (known after apply)
  + disable_api_stop       = (known after apply)
  + disable_api_termination = (known after apply)
  + ebs_optimized          = (known after apply)
  + get_password_data      = false
  + host_id                = (known after apply)
  + host_resource_group_arn = (known after apply)
  + iam_instance_profile   = (known after apply)
  + id                     = (known after apply)
  + instance_initiated_shutdown_behavior = (known after apply)
  + instance_lifecycle     = (known after apply)
  + instance_state         = (known after apply)
  + instance_type          = "t2.micro"
  + ipv6_address_count     = (known after apply)
  + ipv6_addresses        = (known after apply)
  + key_name               = (known after apply)
  + monitoring             = (known after apply)
  + outpost_arn            = (known after apply)
  + password_data          = (known after apply)
  + placement_group        = (known after apply)
  + placement_partition_number = (known after apply)
  + primary_network_interface_id = (known after apply)
  + private_dns            = (known after apply)
  + private_ip             = (known after apply)
  + public_dns             = (known after apply)
```

### 3. Apply Changes:

```
PS E:\aws-terraform-demo> terraform apply

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"
  + arn                       = (known after apply)
  + associate_public_ip_address = (known after apply)
  + availability_zone          = (known after apply)
  + cpu_core_count             = (known after apply)
  + cpu_threads_per_core       = (known after apply)
  + disable_api_stop           = (known after apply)
  + disable_api_termination    = (known after apply)
  + ebs_optimized              = (known after apply)
  + get_password_data          = false
  + host_id                    = (known after apply)
  + host_resource_group_arn     = (known after apply)
  + iam_instance_profile        = (known after apply)
  + id                         = (known after apply)
  + instance_initiated_shutdown_behavior = (known after apply)
  + instance_lifecycle          = (known after apply)
  + instance_state              = (known after apply)
}
```






```
Do you want to perform these actions?
Terraform will perform the actions described above.
Only 'yes' will be accepted to approve.

Enter a value: yes

aws_instance.My-instance[0]: Creating...
aws_instance.My-instance[0]: Still creating... [10s elapsed]
aws_instance.My-instance[0]: Still creating... [20s elapsed]
aws_instance.My-instance[0]: Still creating... [30s elapsed]
aws_instance.My-instance[0]: Creation complete after 37s [id=i-05ca8f5871186f074]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
PS E:\aws-terraform-demo> |
```

### 4. Verify Resources:

	UPES-EC2-Inst...	i-05ca8f5871186f074	 Running  	t2.micro	 2/2 checks passed <a href="#">View alarms</a> 	us-east-2c	ec2-3-21-168-
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## 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.My-instance[0]: Destroying... [id=i-05ca8f5871186f074]
aws_instance.My-instance[0]: Still destroying... [id=i-05ca8f5871186f074, 10s elapsed]
aws_instance.My-instance[0]: Destruction complete after 12s

Destroy complete! Resources: 1 destroyed.
PS E:\aws-terraform-demo> |
```

<input checked="" type="checkbox"/>	UPES-EC2-Inst...	i-05ca8f5871186f074	 Terminated  	t2.micro	-	View alarms 	us-east-2c	-
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