

SUBMITTED BY: Pranay Mayal, B2 (NON HONS.)

Lab Exercise 3– Provisioning an EC2 Instance on AWS

Prerequisites: Terraform Installed: Make sure you have Terraform installed on your machine. Follow the official installation guide if needed. AWS Credentials: Ensure you have AWS credentials (Access Key ID and Secret Access Key) configured. You can set them up using the AWS CLI or by setting environment variables.

Step 1 (continued after 3 steps of previous Exercise)

```
main.tf  instance.tf U X
instance.tf
1  resource "aws_instance" "My-instance" {
2      instance_type = "t2.micro"
3      ami = "ami-0449c34f967dbf18a"
4      count = 1
5      tags = {
6          Name = "UPES-EC2-Instnace"
7      }
8  }
```

Step 2

```
PS D:\Sem 6 DevOps\SPCM\Lab\My Lab Files and PDFS\aws-terraform-demo> terraform plan

Terraform used the selected providers to generate the following execution plan. Resource actions
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-0e731c8a588258d0d"
+   arn              = (known after apply)
+   associate_public_ip_address = (known after apply)
```

Step 3

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

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]: Creation complete after 22s [id=i-038d1f205fcd03352]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
PS D:\Sem 6 DevOps\SPCM\Lab\My Lab Files and PDFS\aws-terraform-demo>
```

Step 4 (verify resources)

Find Instance by attribute or tag (case-sensitive)

Any state

<1>

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<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
<input type="checkbox"/>	UPES-EC2-Inst...	i-038d1f205fcd03352	Running	t2.micro	Initializing	View alarms	ap-south-1b	ec2-43-204-214-99.ap-...	43.204.214.99	-

Step 5

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-038d1f205fcd03352]