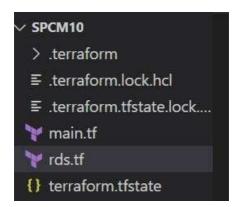
#### RIDDHIMA RAI 500094024 BATCH 2

# Lab Exercise 10– Creating an AWS RDS Instance in Terraform Objective:

Learn how to use Terraform to create an AWS RDS instance.

#### **Steps:**

# 1. Create a Terraform Directory:



### 2. Create Terraform Configuration Files:

```
maintl > % provider 'aws'

terraform {
    required providers {
    aws = {
        source = "hashicorp/aws"
        version = "5.31.8"
    }

provider "aws" {
    region = "ap-south-1"
    access_key = "AKTATIZLIAJGSHGMMMHP"
    secret_key = "Fg5ojIkOskuNVGINPhuAKv41JzX1/XG/6zeQrGk/"
}
```

```
rds.tf > ...

1    resource "aws_db_instance" "My-RDS" {
2        allocated_storage = 10
3        db_name = "upesdb"
4        engine = "mysql"
5        engine_version = "5.7"
6        instance_class = "db.t2.micro"
7        username = "admin"
8        parsword = "admin1234"
9        parameter_group_name = "default.mysql5.7"
10        skip_final_snapshot = true
11        publicly_accessible = true
12    }
```

#### 3. Initialize and Apply:

```
Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/aus versions matching "5.31.8",...
- Finding hashicorp/aus versions matching "5.31.8",...
- Installing hashicorp/aus vs.31.8...
- Installing hashicorp/aus vs.31.8 (signed by Hashicorp)

Terraform has created a lock file terraform.lock.hel to record the provider selections it made above. Include this file in your version control repository so that Terraform can guarantee to make the same selections by default when you run "terraform inst" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform, commands that are required for your beckend configuration for Terraform, rerun this command to reinitialize your working directory. If you forget, other commands will detect it and remind you to do so if necessary.

PS E:\Desktop\DevCps\SPCHLe> 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:

# may db instance.My-RDS will be created | seemed | s
```

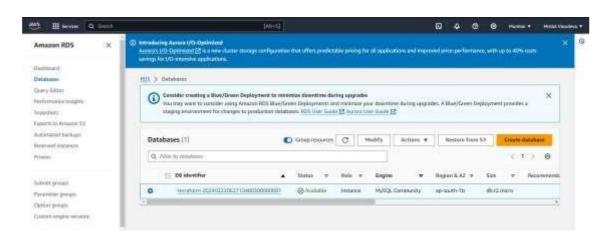
```
S E:\Desktop\DevOps\SPCM10> terraform apply
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following
Terraform will perform the following actions:
  # aws_db_instance.My-RDS will be created 
- resource "mws_db_instance" "My-RDS" {
                                                                          = (known after apply)
        address
allocated_storage
                                                                         = false
= (known after apply)

    apply_immediately

    auto_minor_version_upgrade
    availability_zone
    backup_retention_period

                                                                         = true
= (known after apply)
                                                                         = (known after apply)
= (known after apply)
= (known after apply)
         backup_targat
backup_window
ca_cert_identifier
character_set_name
copy_tags_to_snapshot
db_name
                                                                         = (known after apply)
= (known after apply)
= false
= "upesdb"
                                                                         = (known after apply)
= true
           db_subnet_group_name
delete_automated_backups
           endpoint
engine
                                                                         = (known after apply)
= "mysql"
                                                                          = (known after apply)
= (known after apply)
           engine_version_ectual
hosted_zone_id
                                                                             (known after apply)
(known after apply)
```

# 4. Verify RDS Instance in AWS Console:



# Clean Up: