SPCM LAB-10

Objective: Creating and AWS RDS instance using terraform

- Create a file rds.tf with the following contents

main.tf | rds.tf

10th > rds.tf > resource "aws_db_instance" "my_RDS" > password

```
resource "aws_db_instance" "my_RDS" {
  allocated_storage    = 10
  db_name              = "upes_db"
  engine               = "mysql"
  engine_version       = "5.7"
  instance_class       = "db.t2.micro"
  username             = "admin"
  password             = "admin1234"
  skip_final_snapshot  = true
  parameter_group_name = "default.mysql5.7"

}
```

- Run terraform plan to check if the configurations align with your requirements

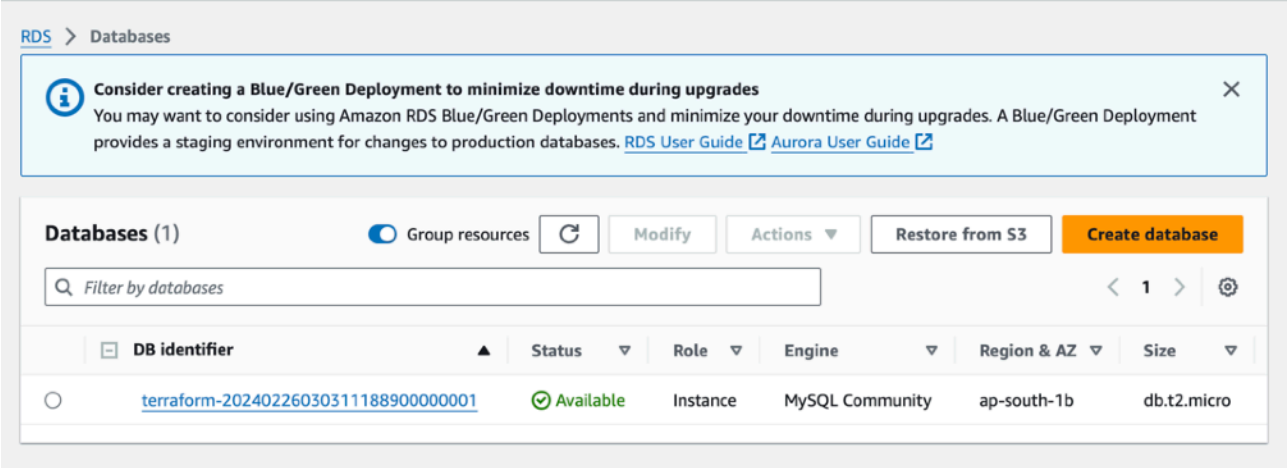
```
gauravbhandari@gauravs-Air-2 10th % terraform plan

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_db_instance.my_RDS will be created
  + resource "aws_db_instance" "my_RDS" {
      + address                               = (known after apply)
```

- Run terraform apply to create your resource

```
gauravbhandari@gauravs-Air-2 10th % terraform apply -auto-approve

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

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

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these
actions if you run "terraform apply" now.
```

```
aws_db_instance.my_RDS: Still creating... [4m20s elapsed]
aws_db_instance.my_RDS: Still creating... [4m30s elapsed]
aws_db_instance.my_RDS: Still creating... [4m40s elapsed]
aws_db_instance.my_RDS: Still creating... [4m50s elapsed]
aws_db_instance.my_RDS: Creation complete after 4m56s [id=db-3VYESD7P524Z35H4NPJVL3VD4Q]

Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
```

- Verify resource creation form AWS console.



- After successful experimentation, run sql destroy to clean up the resources.

```
gauravbhandari@gauravs-Air-2 10th % terraform destroy -auto-approve
aws_db_instance.my_RDS: Refreshing state... [id=db-D2Y5MANAJ4DGMU3QIQO7C5KWSQ]

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

Terraform will perform the following actions:

  # aws_db_instance.my_RDS will be destroyed
  - resource "aws_db_instance" "my_RDS" {
      - address                               = "terraform-20240226030311188900000001.c5ouuqgashuw.ap-south-1.
rds.amazonaws.com" -> null
```

```
aws_db_instance.my_RDS: Still destroying... [id=db-D2Y5MANAJ4DGMU3QIQO7C5KWSQ, 3m10s elapsed]
aws_db_instance.my_RDS: Still destroying... [id=db-D2Y5MANAJ4DGMU3QIQO7C5KWSQ, 3m20s elapsed]
aws_db_instance.my_RDS: Still destroying... [id=db-D2Y5MANAJ4DGMU3QIQO7C5KWSQ, 3m30s elapsed]
aws_db_instance.my_RDS: Still destroying... [id=db-D2Y5MANAJ4DGMU3QIQO7C5KWSQ, 3m40s elapsed]
aws_db_instance.my_RDS: Still destroying... [id=db-D2Y5MANAJ4DGMU3QIQO7C5KWSQ, 3m50s elapsed]
aws_db_instance.my_RDS: Still destroying... [id=db-D2Y5MANAJ4DGMU3QIQO7C5KWSQ, 4m0s elapsed]
aws_db_instance.my_RDS: Still destroying... [id=db-D2Y5MANAJ4DGMU3QIQO7C5KWSQ, 4m10s elapsed]
aws_db_instance.my_RDS: Destruction complete after 4m14s

Destroy complete! Resources: 1 destroyed.
```