Experiment 10
Creating AWS RDS Instance

Steps

1. Create a main.tf file

```
Exp8 >  main.tf
1    terraform {
2      required_providers {
3          aws = {
4          source = "hashicorp/aws"
5          version = "5.31.0"
6        }
7      }
8    }
9
10   provider "aws" {
11     region = var.region
12     access_key = var.access_key
13     secret_key = var.secret_key
14   }
15
```

2. Create db.tf

```
Exp10 >  db.tf
1    resource "aws_db_instance" "My-RDS" {
2        allocated_storage    = 10
3        identifier           = "ayroid"
4        engine               = "mysql"
5        engine_version       = "5.7"
6        instance_class       = "db.t3.micro"
7        username             = "ayroid"
8        password             = "ayroid123"
9        parameter_group_name = "default.mysql5.7"
10       skip_final_snapshot  = true
11       publicly_accessible  = true
12       tags = {
13           Name = "ayroid"
14       }
15   }
```
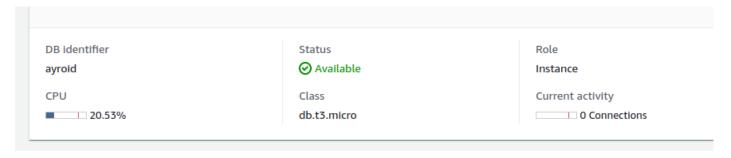
3. Run Terraform init and apply commands

```
→ Exp10  terraform init

Initializing the backend...

Initializing provider plugins...
- Finding hashicorp/aws versions matching "5.31.0"...
- Installing hashicorp/aws v5.31.0"]: Still creatin- Installed hashicorp/aws v5.
```

```
⬧.→  Exp10  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_db_instance.My-RDS will be created
   + resource "aws_db_instance" "My-RDS" {
       + address                             = (known after apply)
       + allocated storage                   = 10
```

4. Verify resources on AWS

DB identifier	Status	Role
ayroid	✓ Available	Instance
CPU	Class	Current activity
20.53%	db.t3.micro	0 Connections

5. Add security groups to access instance from mysql workbench

sgr-0f90f2c5da26cd990	All traffic ▼	All	All	Custom ▼	Q
					sg-0f2e577350e4c5ce8 ✕

6. Connect via workbench

MySQL Workbench is the official graphical user interface (GUI) tool for MySQL. It allows you t
create and br   and insert data as
design and run S   chemas and data

Opening SQL Editor

An SQL editor instance for 'Ayroid' is opening
and should be available in a moment.

Please stand by...

Cancel

Browse   ss on the Forums

MySQL Connection

Ayroid
👤 ayroid
🖥 ayroid.cnsu6ie00veu.ap-south-1.rds...

7. Cleanup resources

```
Apply complete! Resources: 1 added, 0 changed, 0 destroyed.
↳ → Exp10  terraform destroy
aws_db_instance.My-RDS: Refreshing state... [id=db-H5CX7EVI6XSAU5NKO7GCOJMD4M]

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" {
```