## **Lab Exercise 10**

# **Creating an AWS RDS Instance in**

### **Terraform**

1. Create a Terraform Directory:

2. Create a Terraform Configuration File:

```
main.tf > ...

terraform {

required_providers {

aws = {

source = "hashicorp/aws"

version = "5.34.0"

}

provider <u>"aws"</u> {

region = "us-east-2"

access_key = "AKIAVRUVV37F4VMDRGTY"

secret_key = "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"

}
```

```
▼ instance.tf > ⁴ resource "aws_db_instance" "My-RDS"

      resource "aws db instance" "My-RDS" {
        allocated storage = 10
        db name
                              = "mydb"
        engine
                             = "mysql"
        engine version
                              = "5.7"
        instance class
                             = "db.t2.micro"
                              = "admin"
        username
                              = "rudra123"
        password
        parameter group name = "default.mysql5.7"
        skip final snapshot = true
        identifier = "lab-10-db"
        publicly accessible = true
 13
```

#### 3. Initialize and Apply:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS E:\terraform-rds> terraform init

Initializing the backend...

Initializing provider plugins...

- Reusing previous version of hashicorp/aws from the dependency lock file

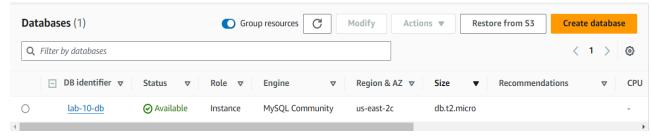
- Using previously-installed hashicorp/aws v5.34.0

Terraform has been successfully initialized!

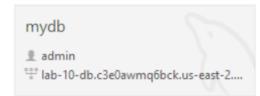
You may now begin working with Terraform. Try running "terraform plan" to see any changes that are required for your infrastructure. All Terraform commands should now work.

If you ever set or change modules or backend 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.
```

```
(known after apply)
         port
         publicly_accessible
                                                      = true
       + replica_mode
                                                      = (known after apply)
       + replicas
                                                      = (known after apply)
                                                      = (known after apply)
       + resource_id
       + skip_final_snapshot
       + snapshot_identifier
                                                      = (known after apply)
                                                        (known after apply)
       + status
       + storage_throughput
                                                        (known after apply)
       + storage_type
                                                        (known after apply)
       + tags_all
                                                      = (known after apply)
       + timezone
                                                      = (known after apply)
                                                      = "admin"
       + username
                                                      = (known after apply)
       + vpc_security_group_ids
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_db_instance.My-RDS: Creating...
aws_db_instance.My-RDS: Still creating... [10s elapsed]
aws_db_instance.My-RDS: Still creating... [20s elapsed]
aws_db_instance.My-RDS: Still creating... [30s elapsed]
aws_db_instance.My-RDS: Still creating... [40s elapsed]
```



## MySQL Connections ⊕ ⊗



#### 4. Clean Up:

```
aws_db_instance.My-RDS: Destroying... [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY]
aws_db_instance.My-RDS: Still destroying... [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       10s elapsed]
aws_db_instance.My-RDS: Still destroying...
aws_db_instance.My-RDS: Still destroying...
                                                [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       20s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       30s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       40s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       50s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       1m0s elapsed]
aws_db_instance.My-RDS: Still destroying...
aws_db_instance.My-RDS: Still destroying...
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       1m10s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       1m20s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       1m30s elapsed]
aws_db_instance.My-RDS: Still destroying...
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       1m40s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       1m50s elapsed]
aws_db_instance.My-RDS: Still destroying...
aws_db_instance.My-RDS: Still destroying...
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       2m0s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       2m10s elapsed]
                                                 id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       2m20s elapsed]
aws_db_instance.My-RDS: Still destroying...
aws_db_instance.My-RDS: Still destroying...
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       2m30s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       2m40s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       2m50s elapsed]
aws_db_instance.My-RDS: Still destroying...
aws_db_instance.My-RDS: Still destroying...
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       3m0s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       3m10s elapsed]
aws_db_instance.My-RDS: Still destroying...
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                       3m20s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       3m30s elapsed]
                                                [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       3m40s elapsed]
                                                 [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       3m50s elapsed]
                                                [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
aws_db_instance.My-RDS: Still destroying...
                                                                                       4m0s elapsed]
aws_db_instance.My-RDS: Still destroying... [id=db-FJK2TKB2XLNYMXD5FH2L65NPYY,
                                                                                      4m10s elapsedl
aws_db_instance.My-RDS: Destruction complete after 4m11s
Destroy complete! Resources: 1 destroyed.
PS E:\terraform-rds>
```

