System Provisioning and Configuration Management Lab

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Batch - 3

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

```
xp10 > 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

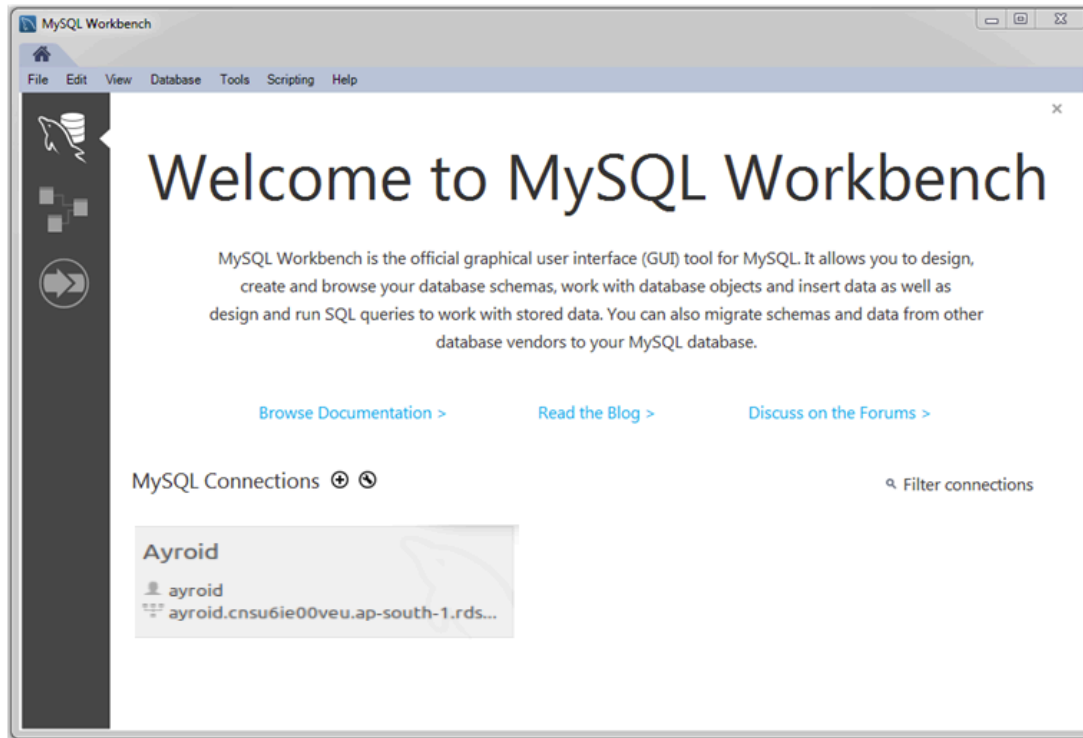| sgr-0f90f2c5da26cd990	All traffic ▼	All	All	Custom ▼	Q
					sg-0f2e577350e4c5ce8 ✕

6. Connect via workbench

7. Cleanup resources