

BTS – MBDS

Big Data Infrastructure

A6: AWS – SQL

1: SQL – n-n relation

2: Neo4j sandbox

Ennio Maldonado

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1. SQL – n-n relation

Terraform yml file

```
File: main.tf

1  resource "aws_db_instance" "default" {
2      allocated_storage      = 10
3      engine                 = "mysql"
4      engine_version         = "5.7"
5      instance_class         = "db.t3.micro"
6      name                   = "mydb"
7      username               = "admin"
8      password               = "12345678"
9      parameter_group_name   = "default.mysql5.7"
10     skip_final_snapshot     = true
11     publicly_accessible     = true
12 }
```

Terraform apply

```
➤ AWS_EC2 > P master +2 !1 744 vim main.tf
> terraform apply

An execution plan has been generated and is shown below.
Resource actions are indicated with the following symbols:
+ create

Terraform will perform the following actions:

# aws_instance.myInstance will be created
+ resource "aws_instance" "myInstance" {
  + ami              = "ami-042e8287309f5df03"
  + arn              = (known after apply)
  + associate_public_ip_address = (known after apply)
}
```

```
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_instance.myInstance: Creating...
aws_instance.myInstance: Still creating... [10s elapsed]
aws_instance.myInstance: Still creating... [20s elapsed]
aws_instance.myInstance: Creation complete after 26s [id=i-039d4ccb41e486450]

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

Outputs:

DNS = "ec2-54-236-30-177.compute-1.amazonaws.com"
```

1. SQL – n-n relation

AWS DB instance

AWS cli - describe

terraform-20210323193334478500000001 Modify Actions ▼

Summary

DB Identifier terraform-20210323193334478500000001	CPU <div><div></div>1.00%</div>	Status Available	Class db.t3.micro
Role Instance	Current activity <div><div></div>0 Connections</div>	Engine MySQL Community	Region & AZ us-east-1b

Connectivity & security | Monitoring | Logs & events | Configuration | Maintenance & backups | Tags

Connectivity & security

Endpoint & port Endpoint terraform-20210323193334478500000001.cuufobrgrdo.us-east-1.rds.amazonaws.com Port 3306	Networking Availability zone us-east-1b VPC vpc-32b0184f Subnet group default Subnets subnet-27a7f129 subnet-68c65c49 subnet-05f95a34 subnet-fe1089a1 subnet-7e8da177	Security VPC security groups default (sg-62d2986f) (active) Public accessibility Yes Certificate authority rds-ca-2019 Certificate authority date Aug 22nd, 2024
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```
aws rds describe-db-instances --query 'DBInstances[*].[DBInstanceArn,DBInstanceIdentifier,DBInstanceClass,Endpoint]'
```

```
[
  [
    "arn:aws:rds:us-east-1:490873502041:db:terraform-20210323193334478500000001",
    "terraform-20210323193334478500000001",
    "db.t3.micro",
    {
      "Address": "terraform-20210323193334478500000001.cuufobrgrdo.us-east-1.rds.amazonaws.com",
      "Port": 3306,
      "HostedZoneId": "Z2R2ITUGPM61AM"
    }
  ]
]
```

2. NEO4J - Sandbox

