AWS RELATIONAL DATABASE SERVICE

- I'll walk you through the process of me creating and testing an Amazon Relational Database Service (Amazon RDS) database in this Project. I'll build an RDS MySql database and use MySQL Workbench to test the connection.
- Duration: 1 hour
- AWS Region: US East (N. Virginia) us-east-1

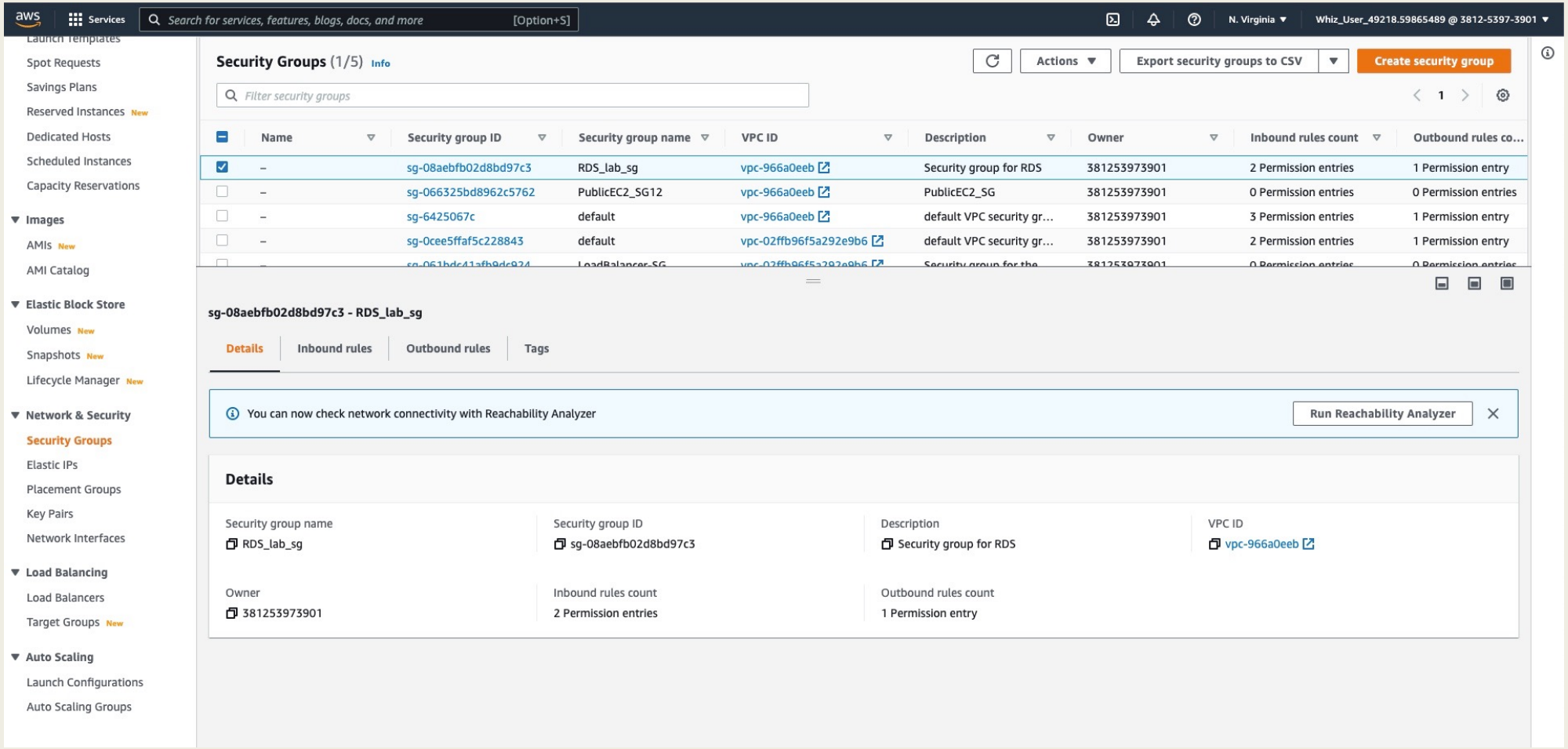
Task Details

- Launch the Lab Environment using the AWS Console
- Create a Security Group for RDS Instance
- Create RDS Database Instance
- Connecting to RDS Database on a DB Instance using the MySQL Workbench

Task 1

- creating an AWS Relational Database Service
  - *Task 1 was all about launching the Aws management console and filtering the services in the search tab.*
  - *Im using my aws IAM username and password to login into the aws console.*
  - *Task2: is creating a security Group for the RDS instance.*
    - I used the N.Virginia region for this specific project
    - Creating a security group is under the EC2 service panel menu, Network & Security
    - Im creating a SG for RDS with a 3306-port number enabled
    - Named the SG and selected the default VPC
    - Added an inbound rules, type: MYSQL/Aurora, source: Custom with 0.0.0.0/0.
    - Kept everything else as default and created the SG.

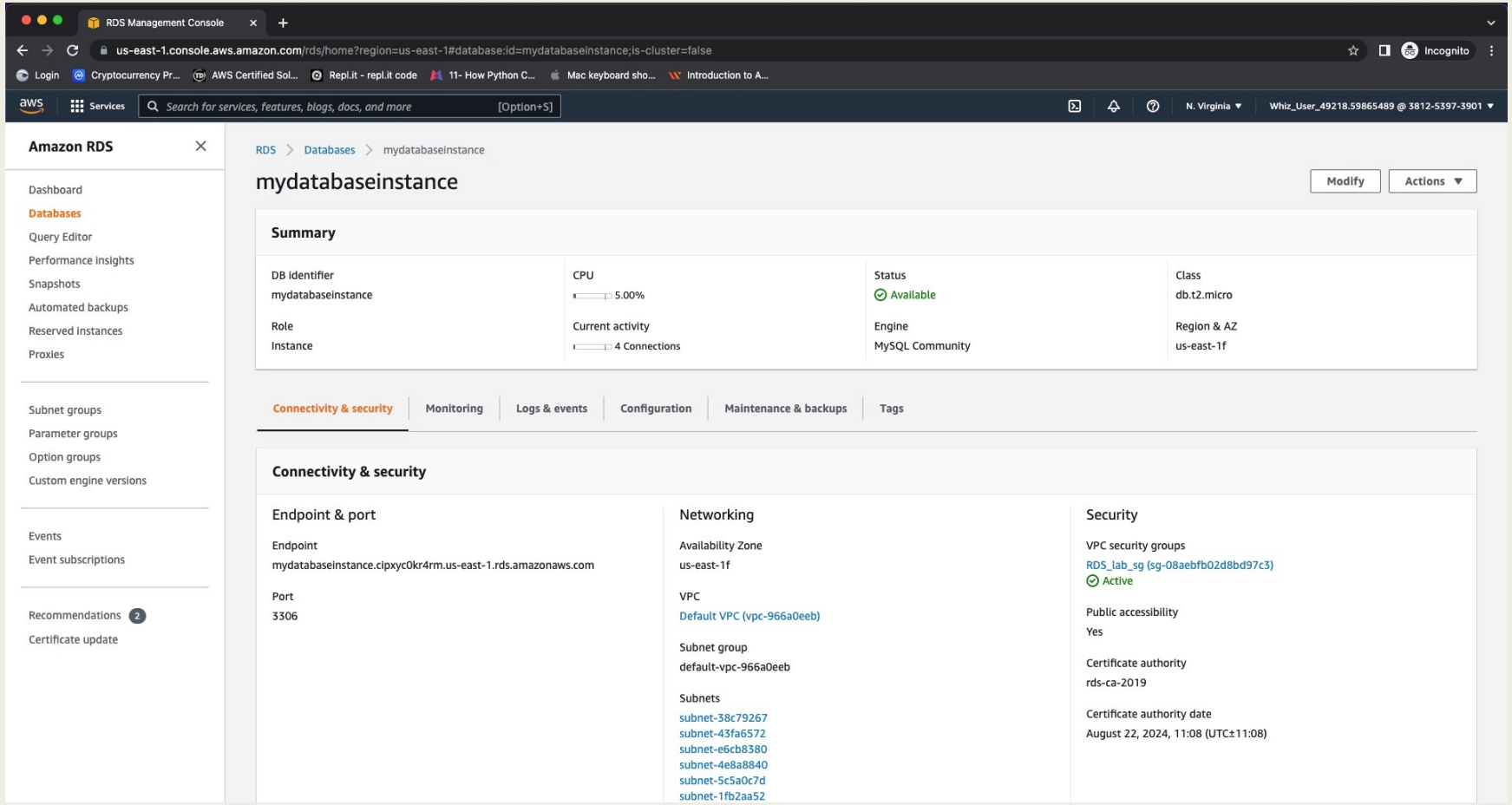
Creation of Security Group in the AWS console.



Task3: Creating RDS Database Instance

- Navigated to RDS by clicking the services menu
- DB details:
  - *Engine option: MYSQL*
  - *Version: default*
  - *Template: Free tier (Selecting the Free tier as a template is compulsory, else database won't be created.)*
  - *DB instance identifier: mydatabaseinstance*
  - *Master username: mydatabaseuser*
  - *Master username and password: mydatabasepassword (username/password combo is used to log so I kept somewhere safe)*
  - *DB instance: I selected the (db.t2.micro-vcpu, 1GiB RAM)*
  - *Storage: I selected general purpose for this project*
  - *In the public access I selected: yes (because this will allow me as an AWS user or any anonymous user access to the data in the database).*
  - *Selected the VPC sg I created in the EC2 section.*
  - *kept everything else default and clicked create RDS*

Database creation in the AWS console



Task 4 : Connecting to RDS Database on a DB Instance using the MySQL Workbench

- in this section of the project I mainly used to connect the database on MySql db. instance using MYSQL monitor command.
  - *I navigated to the Database and selected the one I created*
  - *Under connectivity & security section, I copied the endpoint and port.*
  - *Port:3306*
  - *Then I opened the MYSQL workbench GUI-based application.*
  - *Once I fill out the setup new connection, I tested the connection and was properly connected.*
  - *after I created a database connection in MYSQL Workbench, I went ahead and started implementing a couple database queries to interact with the database.*
  - *Next slide is the database queries screenshot.*

Database Queries