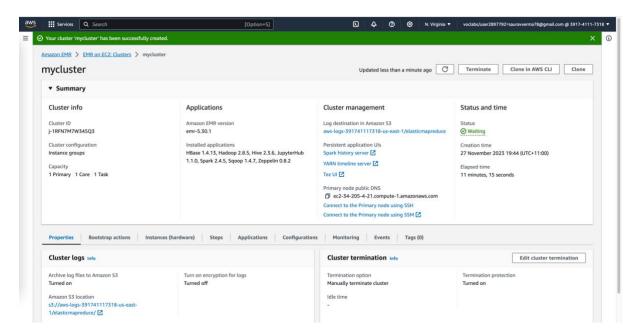
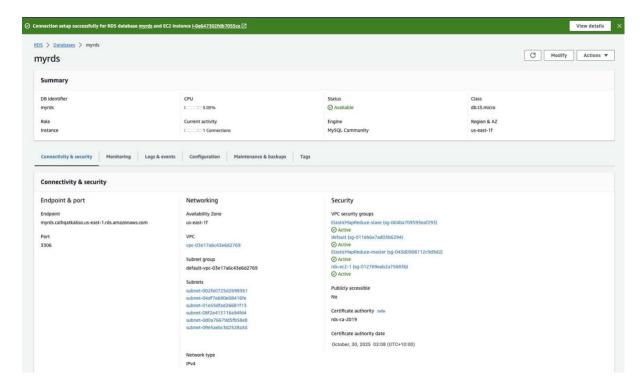
Task 1

Create an RDS instance in your AWS account and upload the data to the RDS instance.

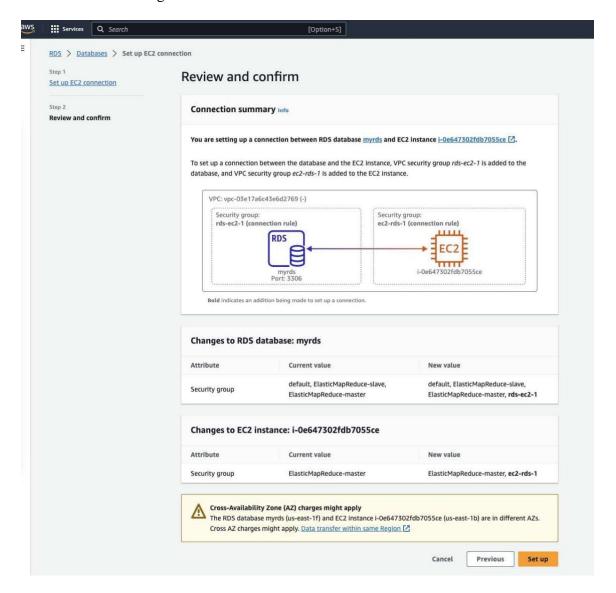
1. EMR EC2 cluster with required applications Hadoop, HBase, Sqoop etc.



2. RDS instance created.



3. RDS to EC2 linkage.



4. Login to EC2 instance and download database files using commands:

```
ssh -i ~/Downloads/mr-assignment.pem ec2-user@ec2-35-172-218-206.compute-1.amazonaws.com wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-01.csv wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-02.csv wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-03.csv wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-04.csv wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-05.csv wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-06.csv wget https://nyc-tlc-upgrad.s3.amazonaws.com/yellow_tripdata_2017-06.csv
```

5. Remaining Steps:

- List all the downloaded files
- Login to MySQL server
 - Create a new Database
 - Create a new Table with schema similar to the dataset
 - Load data from the csv files into the database.
 - Check if the data is present or not.

```
[ec2-user@ip-172-31-67-221 ~]$ ls -1
total 5425468
      total 5425468
-Tw-Tw-T-- 1 ec2-user ec2-user 914029540 Nov 25 2022 yellow_tripdata_2017-01.csv
-Tw-Tw-T-- 1 ec2-user ec2-user 863487050 Nov 25 2022 yellow_tripdata_2017-02.csv
-Tw-Tw-T-- 1 ec2-user ec2-user 969809025 Nov 25 2022 yellow_tripdata_2017-03.csv
-Tw-Tw-T-- 1 ec2-user ec2-user 946349441 Nov 25 2022 yellow_tripdata_2017-04.csv
-Tw-Tw-T-- 1 ec2-user ec2-user 951965526 Nov 25 2022 yellow_tripdata_2017-06.csv
-Tw-Tw-T-- 1 ec2-user ec2-user 910028408 Nov 25 2022 yellow_tripdata_2017-06.csv
-Tw-Tw-T-- 1 ec2-user ec2-user 910028408 Nov 25 2022 yellow_tripdata_2017-06.csv
-Tw-Tw-T-- 1 ec2-user ec2-user 910028408 Nov 25 2022 yellow_tripdata_2017-06.csv
-Tw-Tw-T-- 1 ec2-user ec2-user 910028408 Nov 25 2022 yellow_tripdata_2017-06.csv
    Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
      Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
    MySQL [(none)]> create database taxi_trip_db;
Query OK, 1 row affected (0.05 sec)
MySQL [(none)]> use taxi_trip_db;

Database changed

MySQL [axi_trip_db]> create table TripRecords (

> VendorID int NOT NULL,

- tpep_droupf_datetime datetime NOT NULL,

-> tpep_droupf_datetime datetime NOT NULL,

-> passenger_count int NOT NULL,

-> Trip_distance float NOT NULL,

-> RateCodeID int NOT NULL,

-> Store_and_fwd_flag varchar(1) NOT NULL,

-> PullocationID int NOT NULL,

-> Payment_type int NOT NULL,

-> Fare_amount float NOT NULL,

-> Fare_amount float NOT NULL,

-> Inparowement surcharge float NOT NULL,

-> Inparowement surcharge float NOT NULL,

-> Tolls_amount float NOT NULL,

-> Total_amount float NOT NULL,

-> Total_amount float NOT NULL,

-> Airport_fee float NOT NULL,

-> Airport_fee float NOT NULL,

-> Airport_fee float NOT NULL,

-> PRIMARY KEY (tpep_pickup_datetime, tpep_dropoff_datetime)

-> );

Query OK, 6 rows affected (6.11 sec)
    -> tpep_pickup_datetime datet
-> tpep_gropoff_datetime date
-> Passenger_count int NOT NU
-> Trip_distance float NOT NU
-> Store_and_fwd_flag varchar
-> PULocationID int NOT NULL,
-> DOLocationID int NOT NULL,
-> Payment_type int NOT NULL,
-> Fare_amount float NOT NULL,
-> Extra float NOT NULL,
-> Tip_amount float NOT NULL,
-> Tolls_amount float NOT NULL,
-> Tolls_amount float NOT NULL
-> Pratial Tolls NOT NULL
-> Tolls_amount float NOT NULL
-> PRIMARY KEY (tpep_pickup_d
-> );

Query OK, 0 rows affected (0.11 sec)
   MySQL [taxi_trip_db]> load data local infile '/home/ec2-user/yellow_tripdata_2017-01.csv'
-> into table trip_records
-> fields terminated by'\n'
-> lines terminated by'\n'
-> ignore 1 lines;

MySQL [taxi_trip_db]> load data local infile '/home/ec2-user/yellow_tripdata_2017-01.csv'
-> into table TripRecords
-> fields terminated by'\n'
-> lines terminated by'\n'
-> ignore 1 lines;

Query OK, 9691163 rows affected, 65535 warnings (2 min 29.43 sec)

Records: 9710820 Deleted: 0 Skipped: 19657 Warnings: 19441297
    MySQL [taxi_trip_db]> load data local infile '/home/ec2-user/yellow_tripdata_2017-02.csv'
-> into table TripRecords
-> fields terminated by','
-> lines terminated by'\n'
-> ignore 1 lines;
Query OK, 9150885 rows affected, 65535 warnings (2 min 9.66 sec)
Records: 9169775 Deleted: 0 Skipped: 18890 Warnings: 18358440
```