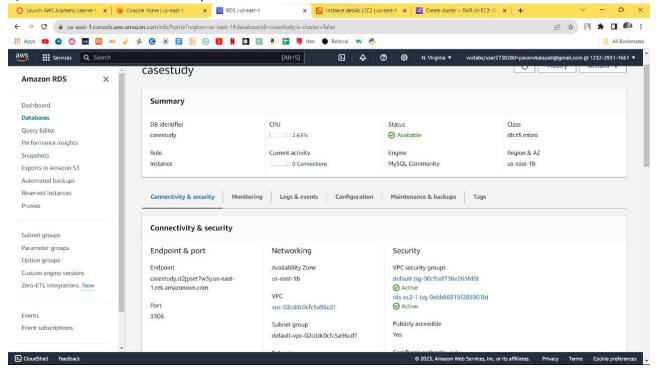
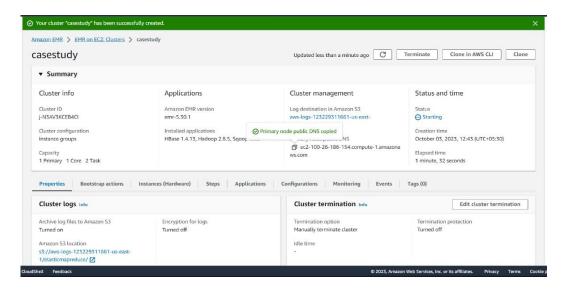
Task 1

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

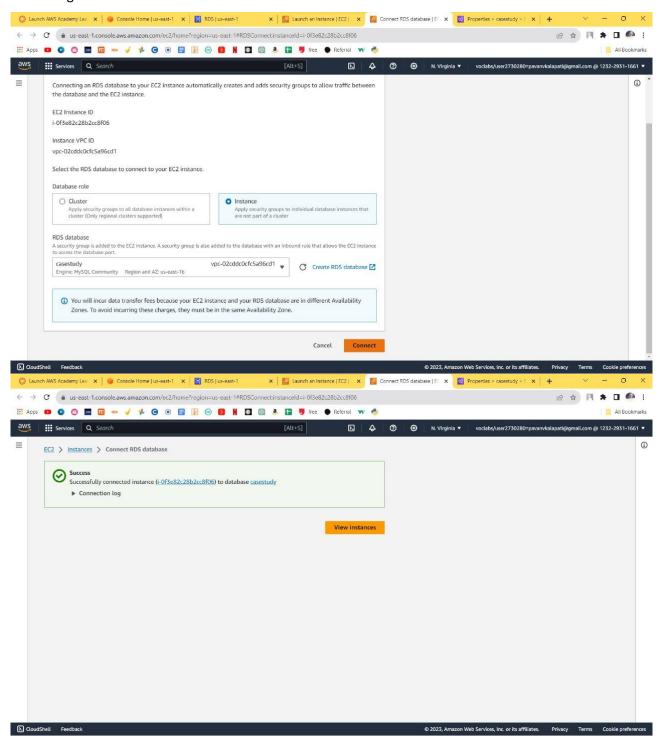
- 1) We've generated an RDS instance using the Learner Lab and initiated an EMR cluster.
- 2) We obtained the necessary files for this task, namely yellow_tripdata_2017-01.csv and yellow_tripdata_201702.csv.
- 3) We've established a connection from EMR to the RDS instance, created a table, and imported records from the CSV files.
- 4) The data has been successfully loaded into the RDS instance we created.



EMR Cluster:



Connecting RDS with EMR EC2 instance:



Connecting EMR instance with PuTTy and then downloading yellow_tripdata_2017-01.csv & yellow_tripdata_2017-02.csv :

Connecting RDS with EMR Instance:

Hostname: casestudy.ci2jpset7w3y.us-east-1.rds.amazonaws.com

Command:

mysql -h case-study-dbb.ck4jzoqb1yn7.us-east-1.rds.amazonaws.com -P 3306 -u root -p

```
create database
yellow_taxi;
use yellow_taxi;
Creating table—
CREATE TABLE taxi
vendorID INT,
tpep_pickup_datetime DATETIME,
tpep_dropoff_datetime DATETIME,
passenger_count INT, trip_distance
DOUBLE, puLocationID INT,
doLocationID INT, rateCodeID INT,
store_and_fwd_flag VARCHAR(255),
payment_type INT, fare_amount
DOUBLE, extra DOUBLE, mta_tax
DOUBLE, improvement_surcharge
DOUBLE, tip_amount DOUBLE,
tolls_amount DOUBLE, total_amount
DOUBLE, congestion_Surcharge
DOUBLE, airport_fee DOUBLE
);
```

```
o your MySQL server version for the right syntax to use near 'decribe table taxi' at line l
dySQL [yellow_taxi]> describe taxi;
                                                                 | YES
                                                                                         NULL
NULL
  tpep_pickup_datetime
tpep_dropoff_datetime
                                                                                        NULL
NULL
NULL
NULL
                                                                   YES
YES
  passenger_count
trip_distance
                                         int
double
                                       | int
  puLocationID
doLocationID
 rateCodeID
store and fwd_flag
payment_type
fare_amount
extra
                                                                                         NULL
NULL
                                       | varchar(255)
                                         int
double
double
                                                                                         NULL
NULL
NULL
                                                                   YES
YES
                                                                   YES
YES
  improvement surcharge
                                                                   YES
YES
                                                                                         NULL
 tolls_amount
total_amount
congestion_Surcharge
airport_fee
                                       | double
                                                                                         NULL
NULL
19 rows in set (0.00 sec)
```

Load Data into Above table

```
LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-01.csv'
INTO TABLE taxi
FIELDS TERMINATED BY ','
LINES TERMINATED BY '\n'
IGNORE 1 LINES;

LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-02.csv'
INTO TABLE taxi
```

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 LINES;

```
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)]> use yellow taxi;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed

MySQL [yellow taxi]> LOAD DATA LOCAL INFILE '/home/hadoop/yellow_tripdata_2017-01.csv'
-> INTO TABLE taxi
-> FIBLOS TERMINATED BY '\n'
-> INTO TABLE taxi
-> FIBLOS TERMINATED BY '\n'
-> LINES TERMINATED
```