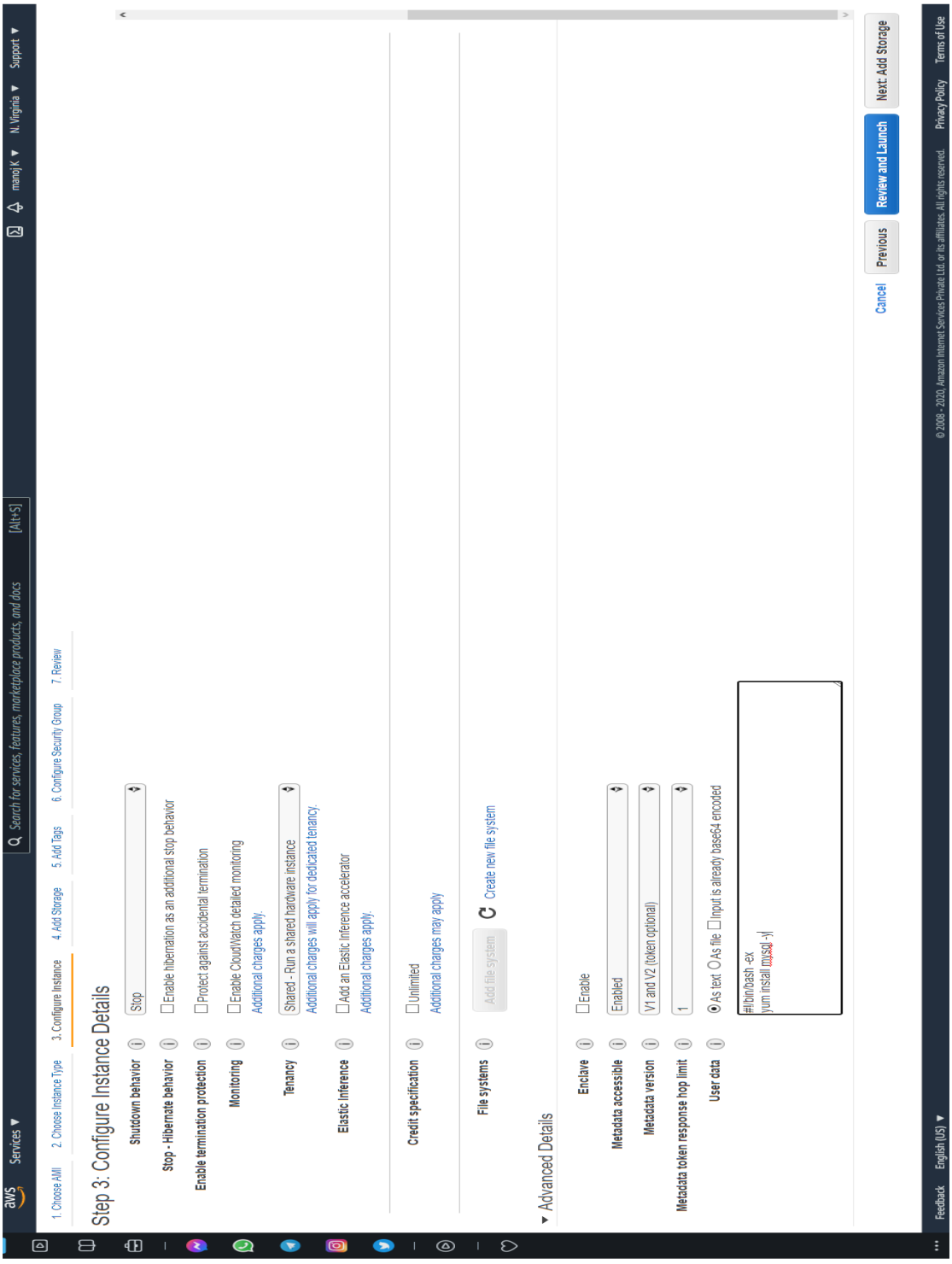
AWS PROJECT 2

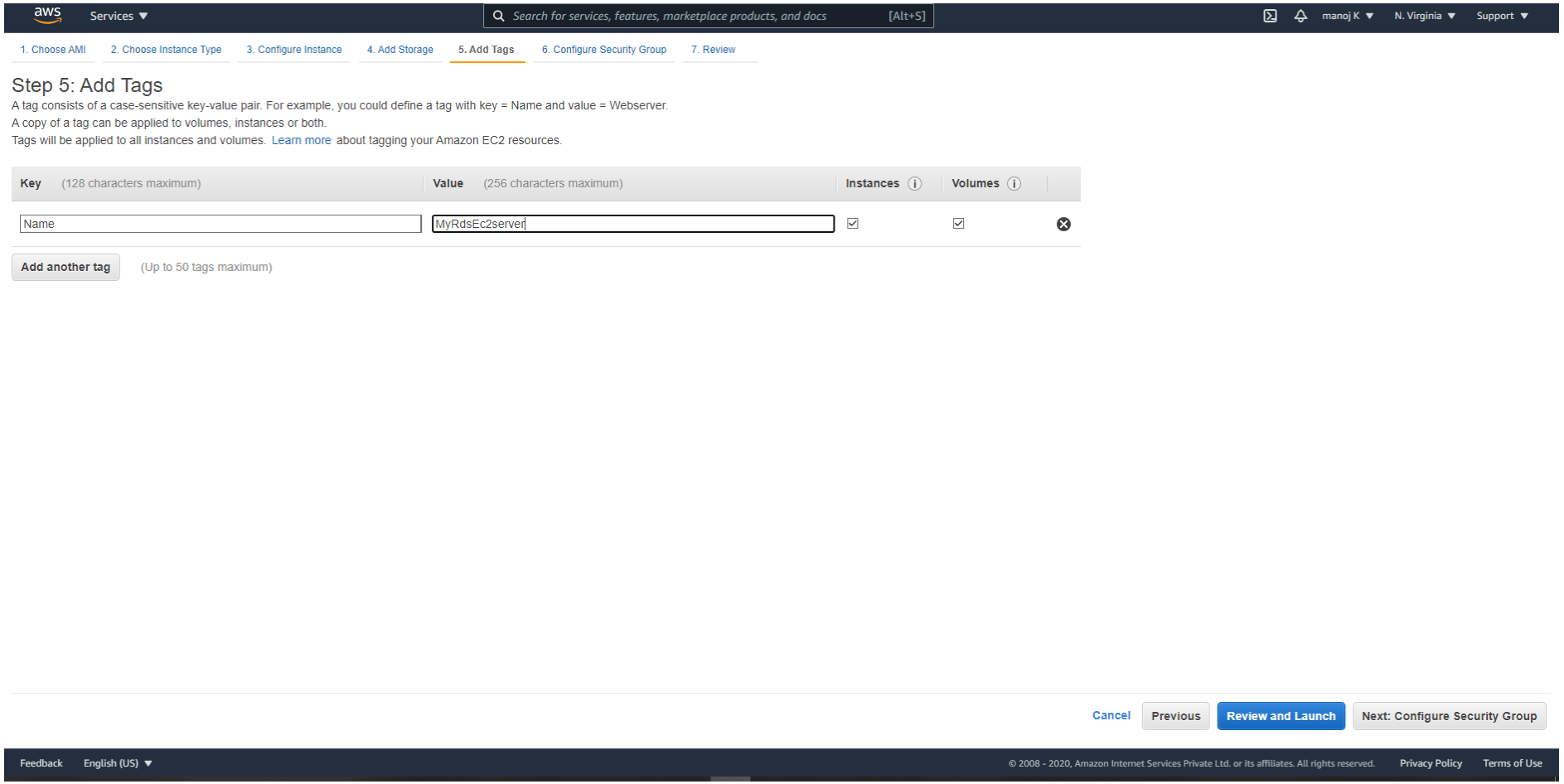
Manoj K

Creating an EC2 Instance

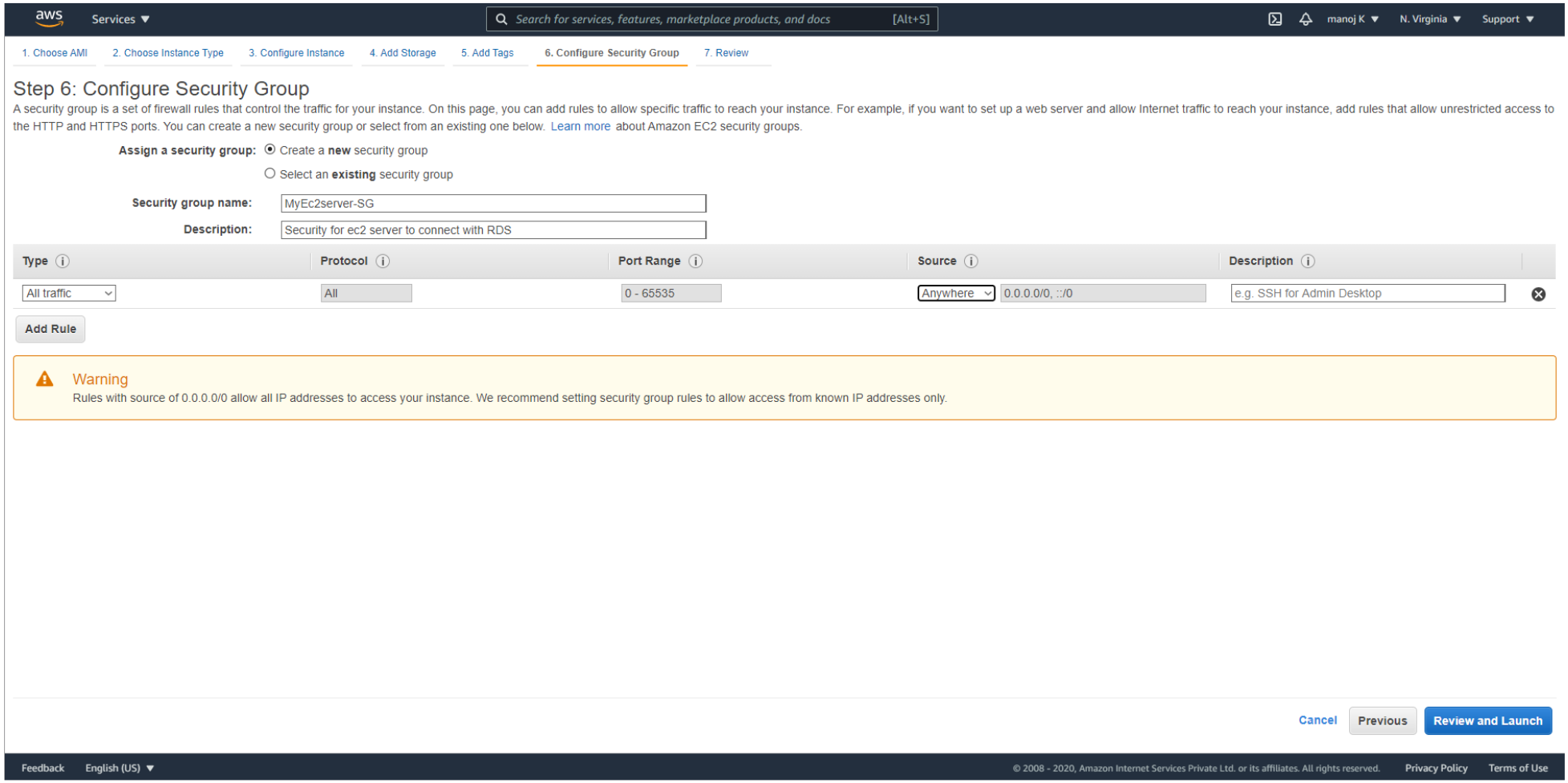


Installing mysql in linux instance by bootstrapping method

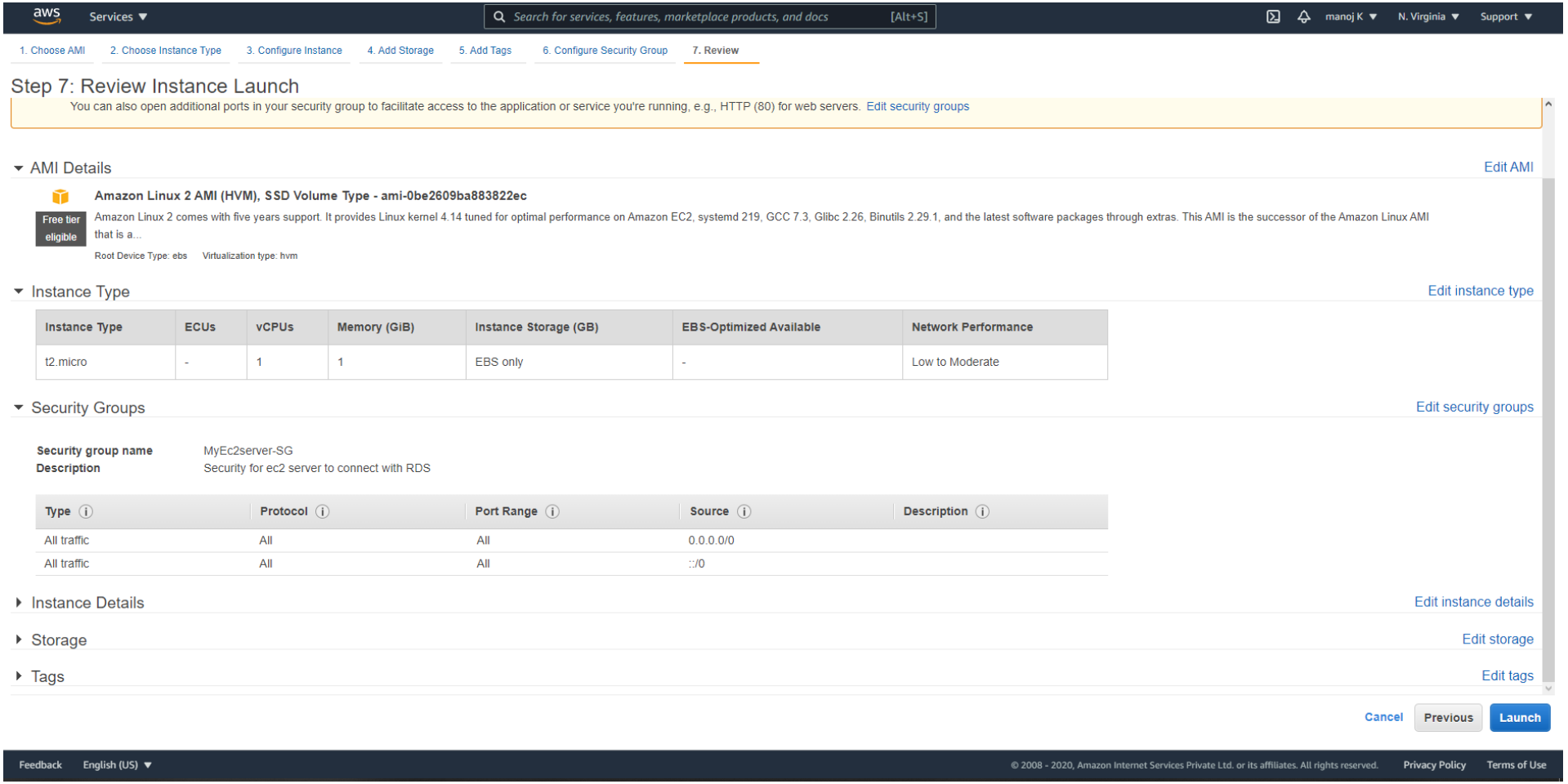
Key-value For instance which is been created



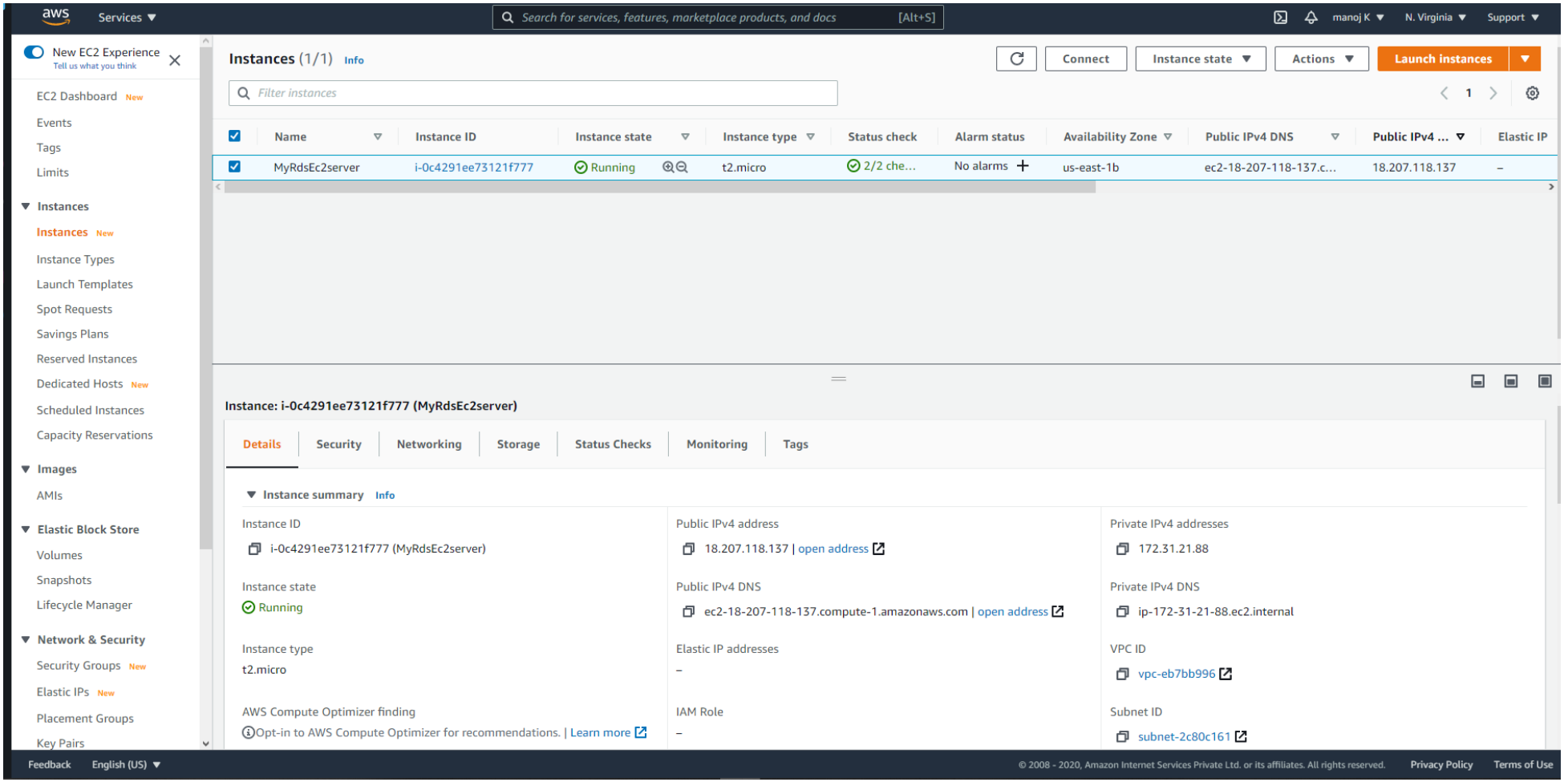
Security Group for ec2 instance

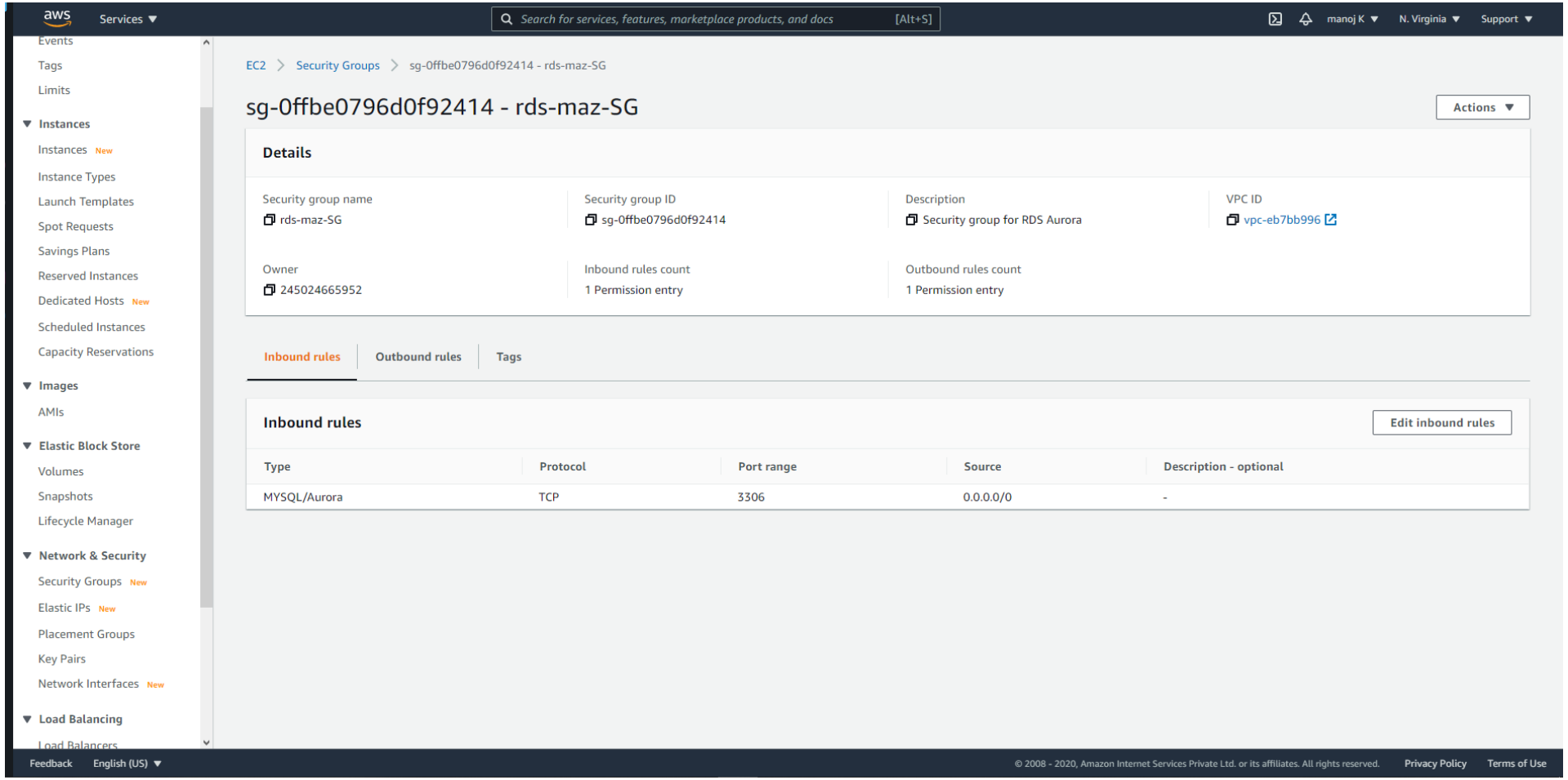


Ec2 Instance Review



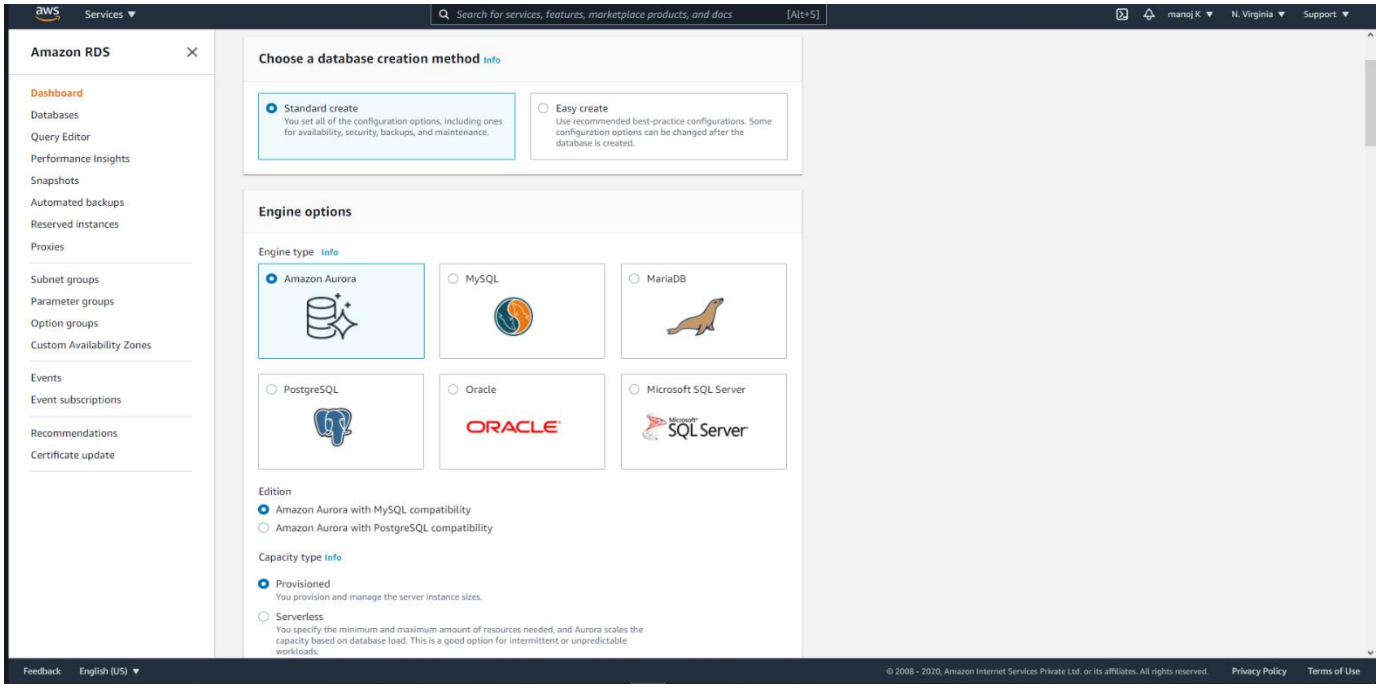
Instance Details

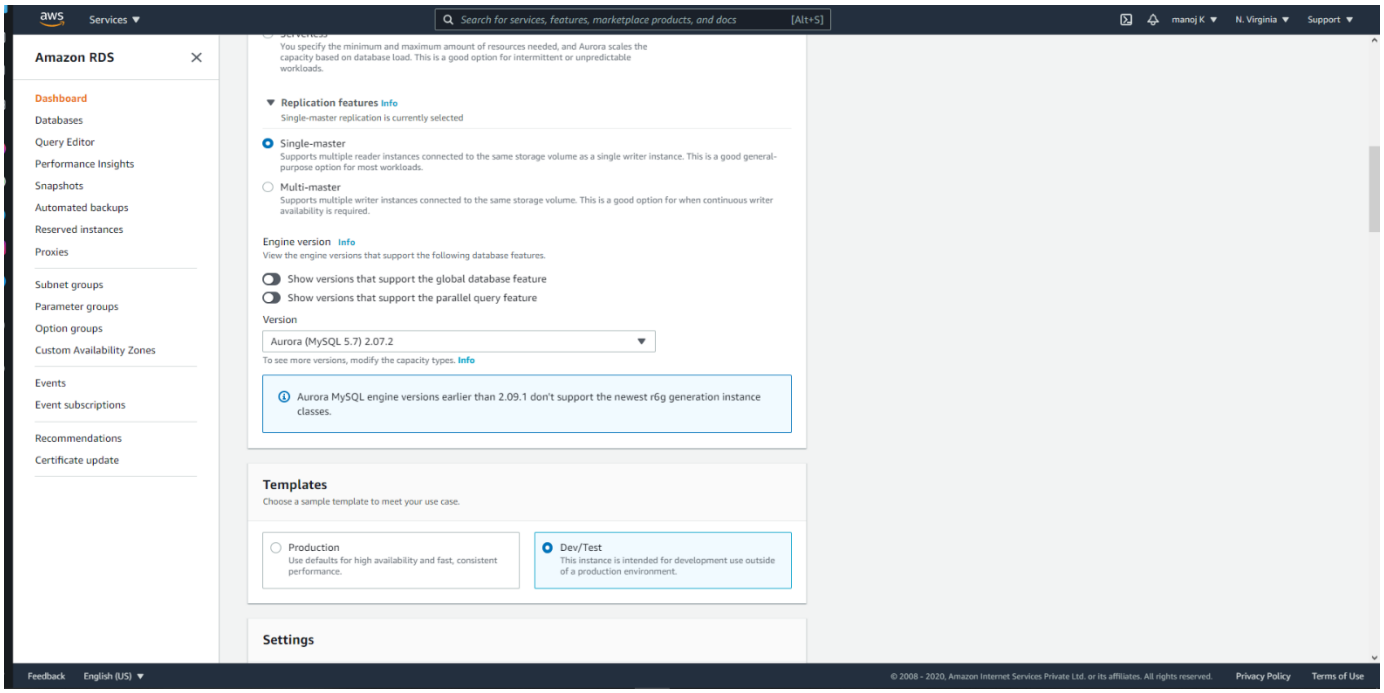


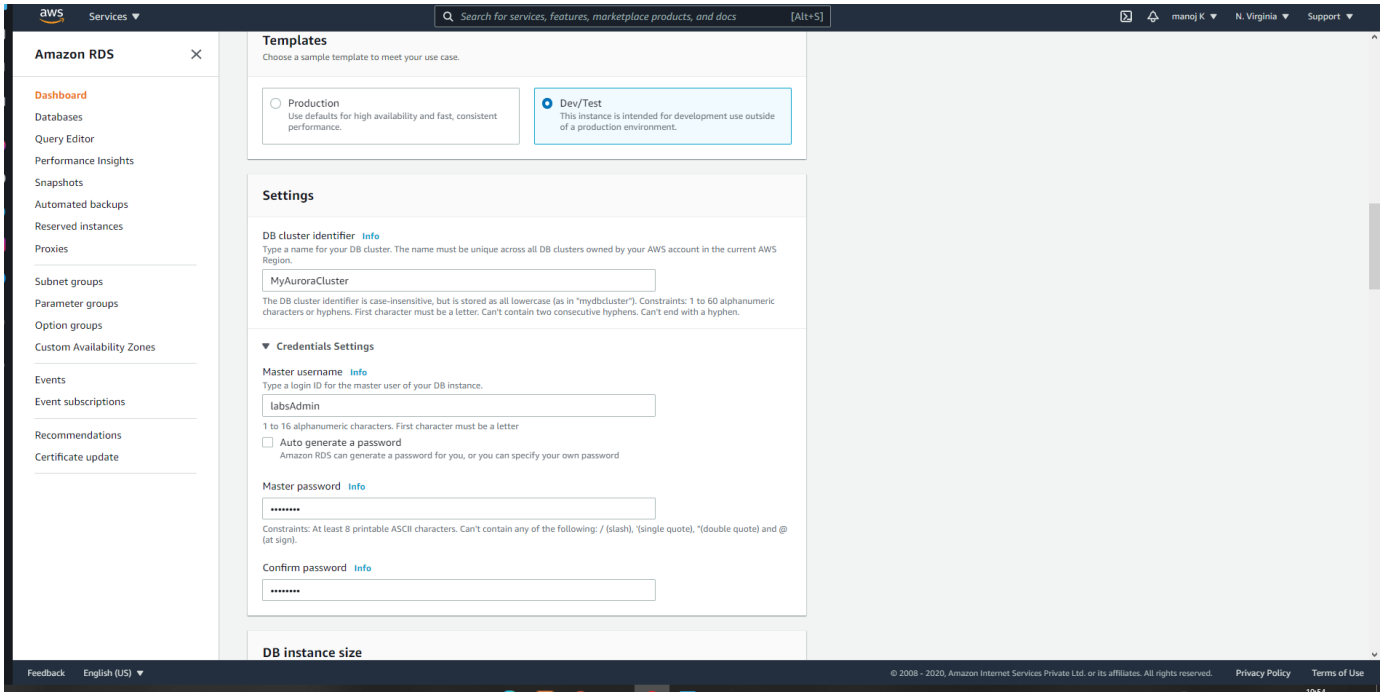


Creating a Security Group for RDS instance

Create an Amazon Aurora database with Multi-AZ enabled



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Option groups
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Events
Event subscriptions
Recommendations
Certificate update
Templates
Choose a sample template to meet your use case.
Production
Use defaults for high availability and fast, consistent performance.
Dev/Test
This instance is intended for development use outside of a production environment.
Settings
DB cluster identifier Info
Type a name for your DB cluster. The name must be unique across all DB clusters owned by your AWS account in the current AWS Region.
MyAuroraCluster
The DB cluster identifier is case-insensitive, but is stored as all lowercase (as in "mydbcluster"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.
Credentials Settings
Master username Info
Type a login ID for the master user of your DB instance.
labsAdmin
1 to 16 alphanumeric characters. First character must be a letter
Auto generate a password
Amazon RDS can generate a password for you, or you can specify your own password
Master password Info
Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), '(single quote), "(double quote) and @ (at sign).
Confirm password Info
DB instance size
Feedback
English (US)
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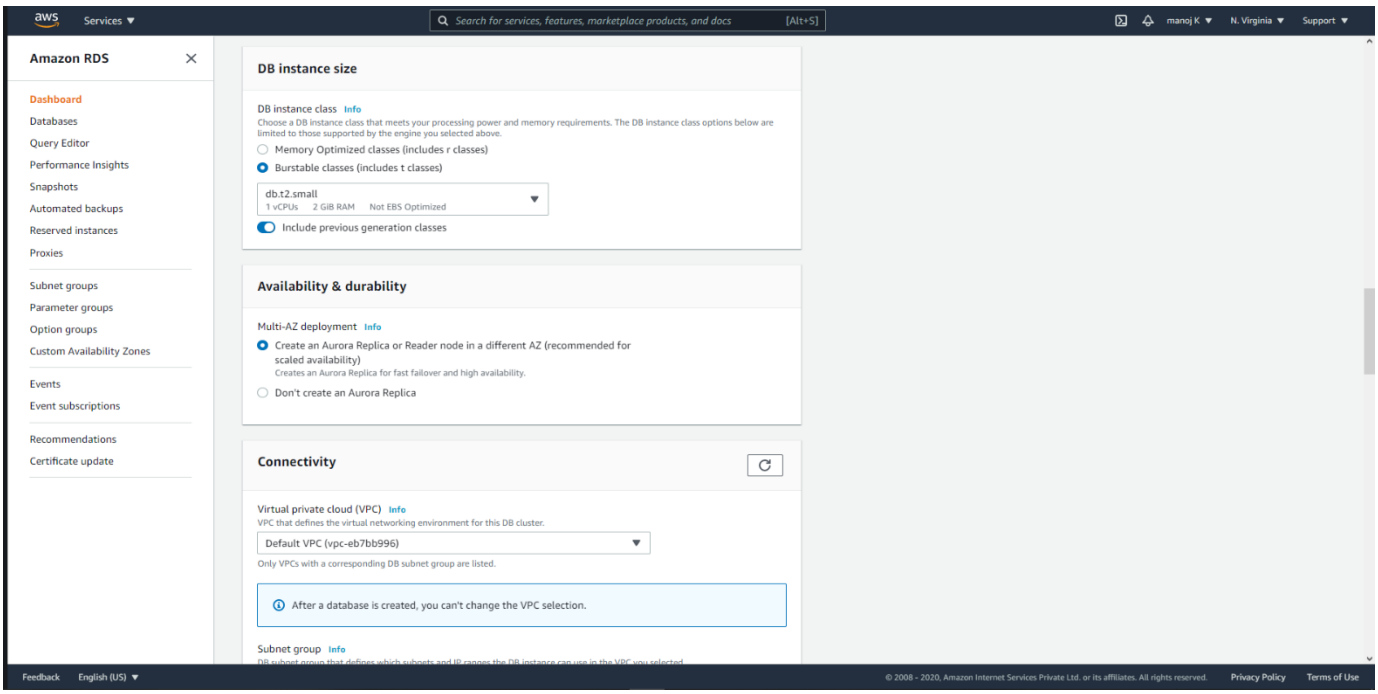
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Proxies
Subnet groups
Parameter groups
Option groups
Custom Availability Zones
Events
Event subscriptions
Recommendations
Certificate update
DB instance size
DB instance class Info
Choose a DB instance class that meets your processing power and memory requirements. The DB instance class options below are limited to those supported by the engine you selected above.
Memory Optimized classes (includes r classes)
Burstable classes (includes t classes)
db.t2.small
1 vCPUs 2 GiB RAM Not EBS Optimized
Include previous generation classes
Availability & durability
Multi-AZ deployment Info
Create an Aurora Replica or Reader node in a different AZ (recommended for scaled availability)
Creates an Aurora Replica for fast failover and high availability.
Don't create an Aurora Replica
Connectivity
Virtual private cloud (VPC) Info
VPC that defines the virtual networking environment for this DB cluster.
Default VPC (vpc-eb7bb996)
Only VPCs with a corresponding DB subnet group are listed.
After a database is created, you can't change the VPC selection.
Subnet group Info
Feedback
English (US)
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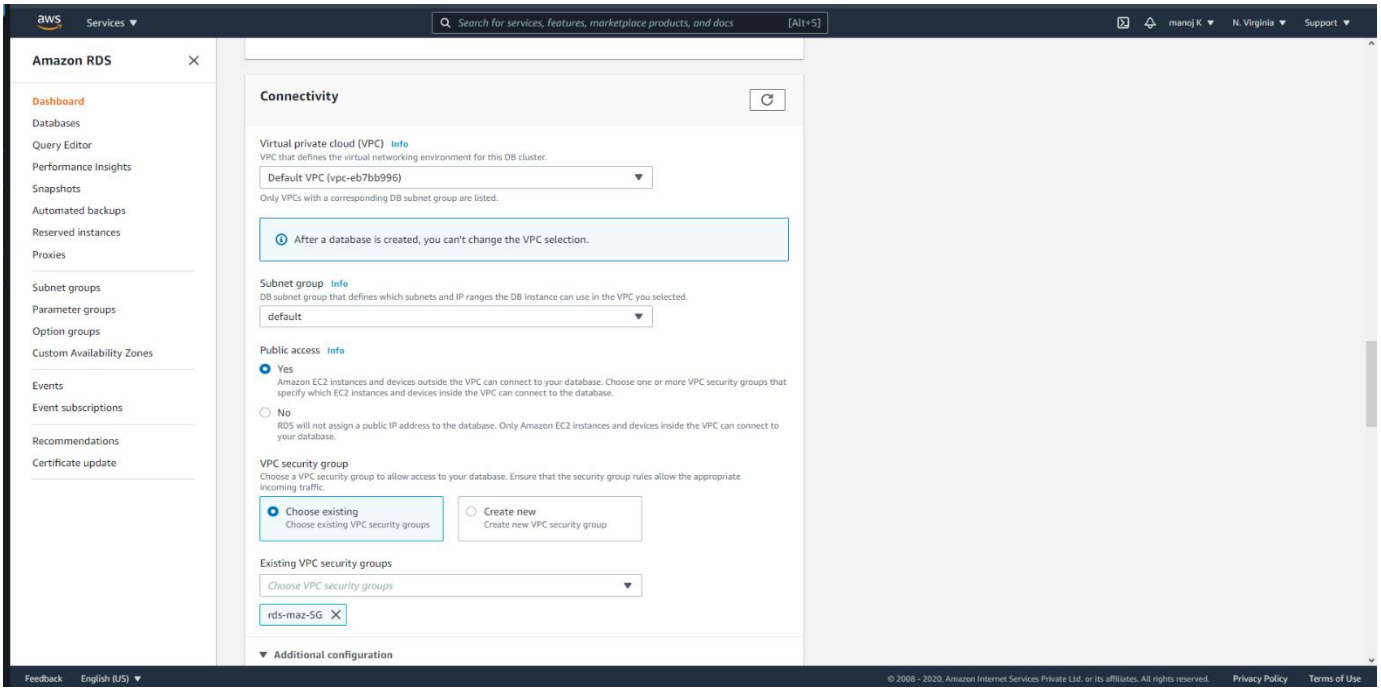
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Certificate update
Connectivity
Virtual private cloud (VPC) Info
VPC that defines the virtual networking environment for this DB cluster.
Default VPC (vpc-eb7bb996)
Only VPCs with a corresponding DB subnet group are listed.
After a database is created, you can't change the VPC selection.
Subnet group Info
DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.
default
Public access Info
Yes
Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.
No
RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.
VPC security group
Choose a VPC security group to allow access to your database. Ensure that the security group rules allow the appropriate incoming traffic.
Choose existing
Choose existing VPC security groups
Create new
Create new VPC security group
Existing VPC security groups
Choose VPC security groups
rds-maz-SG
Additional configuration
Feedback
English (US)
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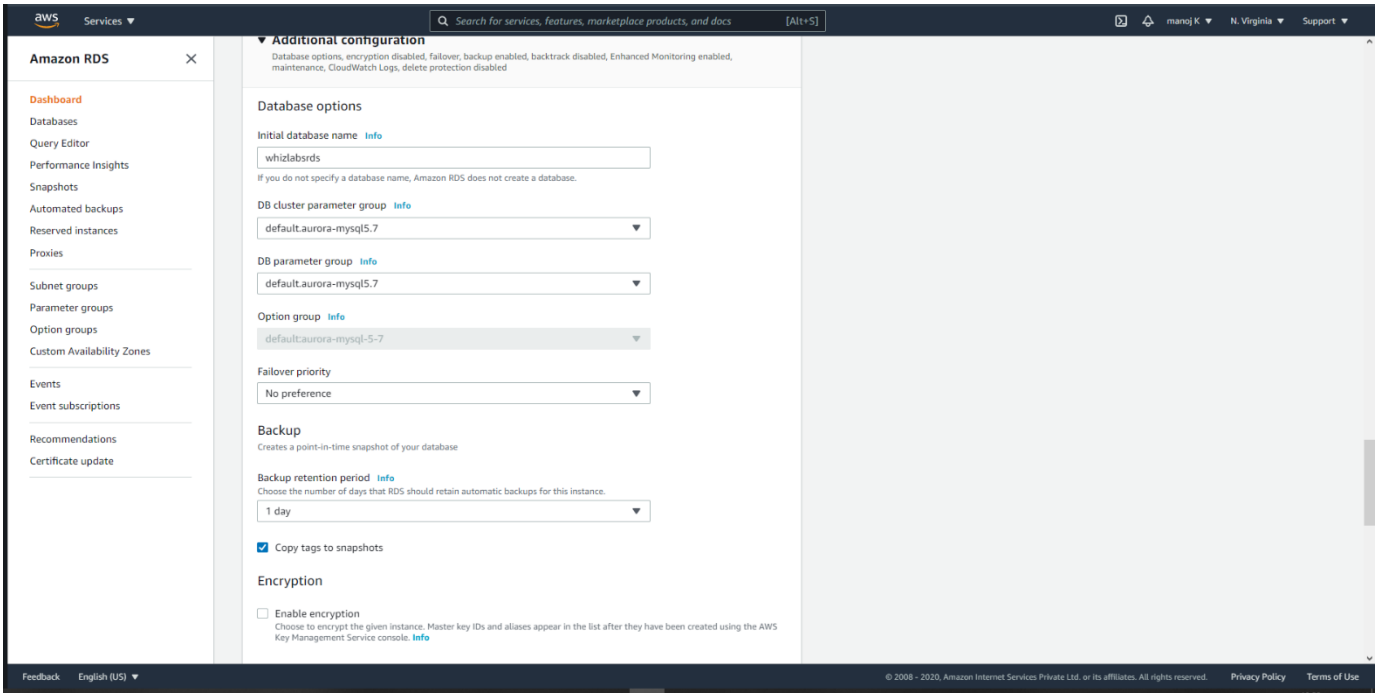
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Proxies
Subnet groups
Parameter groups
Option groups
Custom Availability Zones
Events
Event subscriptions
Recommendations
Certificate update
Additional configuration
Database options, encryption disabled, failover, backup enabled, backtrack disabled, Enhanced Monitoring enabled, maintenance, CloudWatch Logs, delete protection disabled
Database options
Initial database name Info
whizlabsrds
If you do not specify a database name, Amazon RDS does not create a database.
DB cluster parameter group Info
default.aurora-mysql5.7
DB parameter group Info
default.aurora-mysql5.7
Option group Info
default:aurora-mysql-5-7
Failover priority
No preference
Backup
Creates a point-in-time snapshot of your database
Backup retention period Info
Choose the number of days that RDS should retain automatic backups for this instance.
1 day
Copy tags to snapshots
Encryption
Enable encryption
Choose to encrypt the given instance. Master key IDs and aliases appear in the list after they have been created using the AWS Key Management Service console. Info
Feedback
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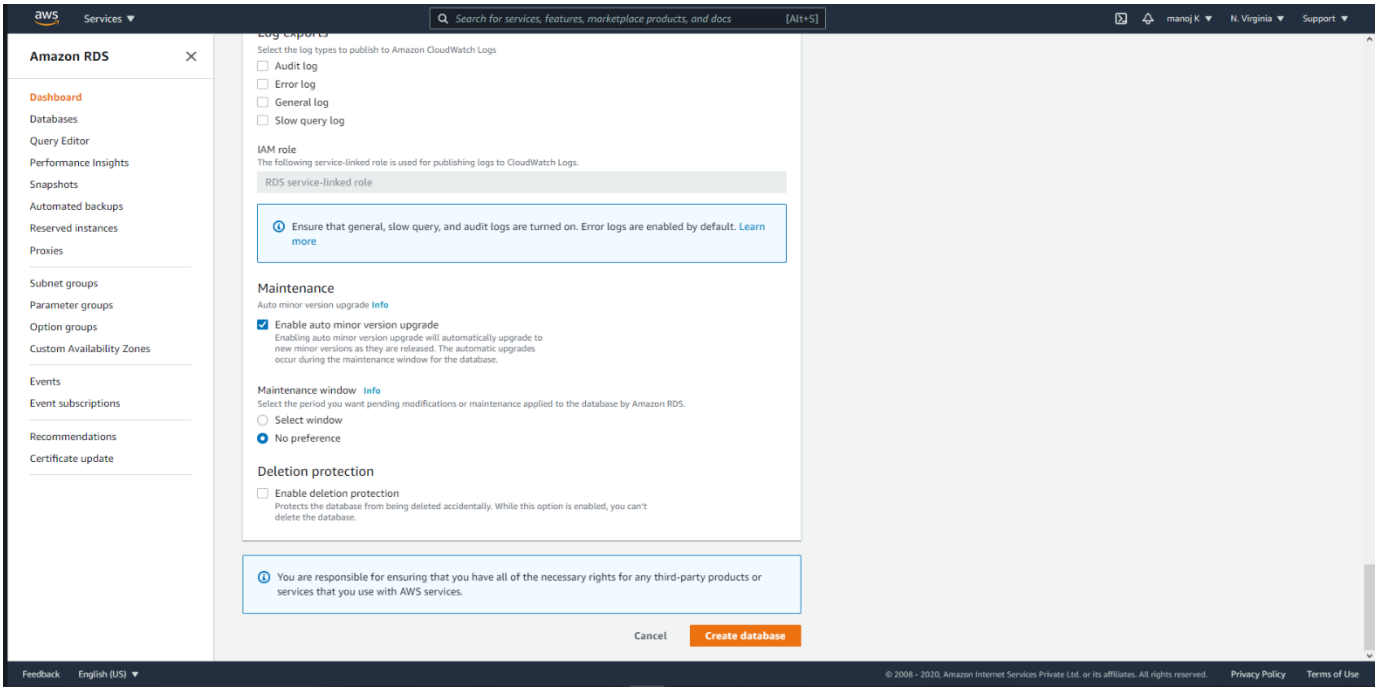
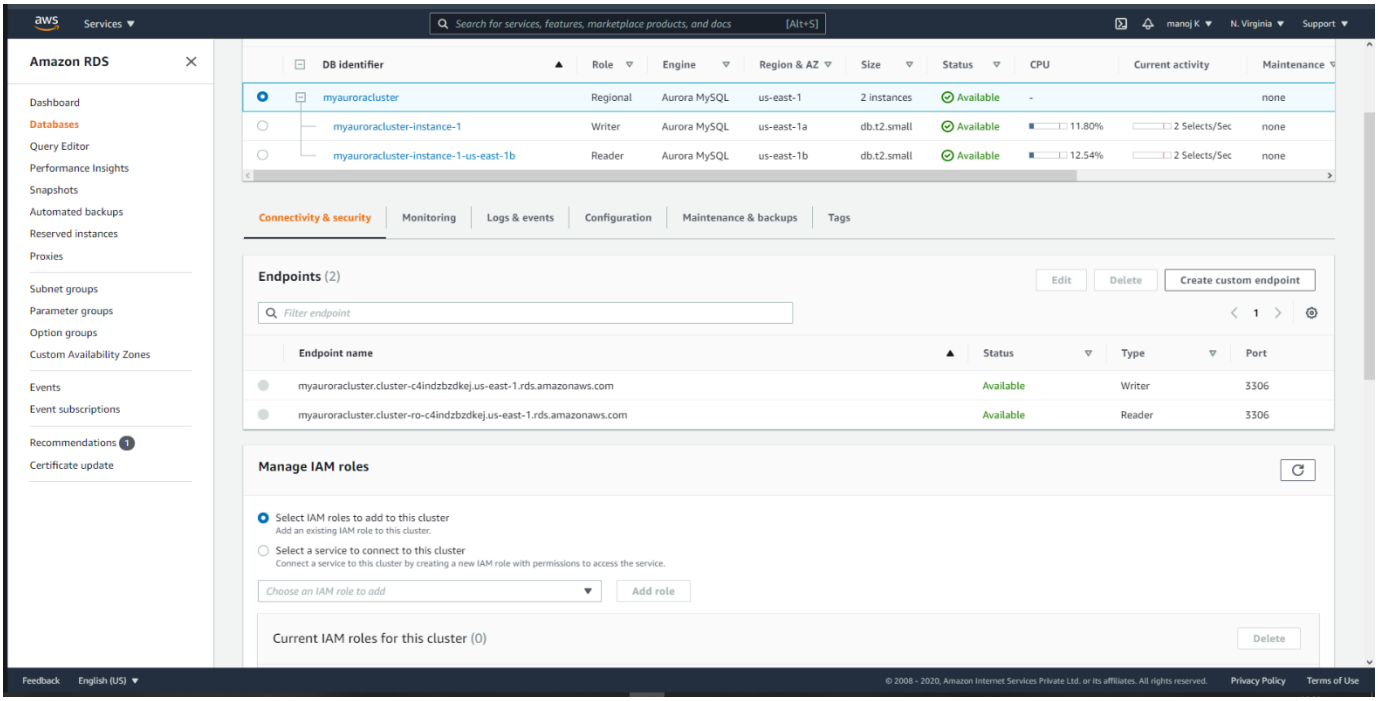
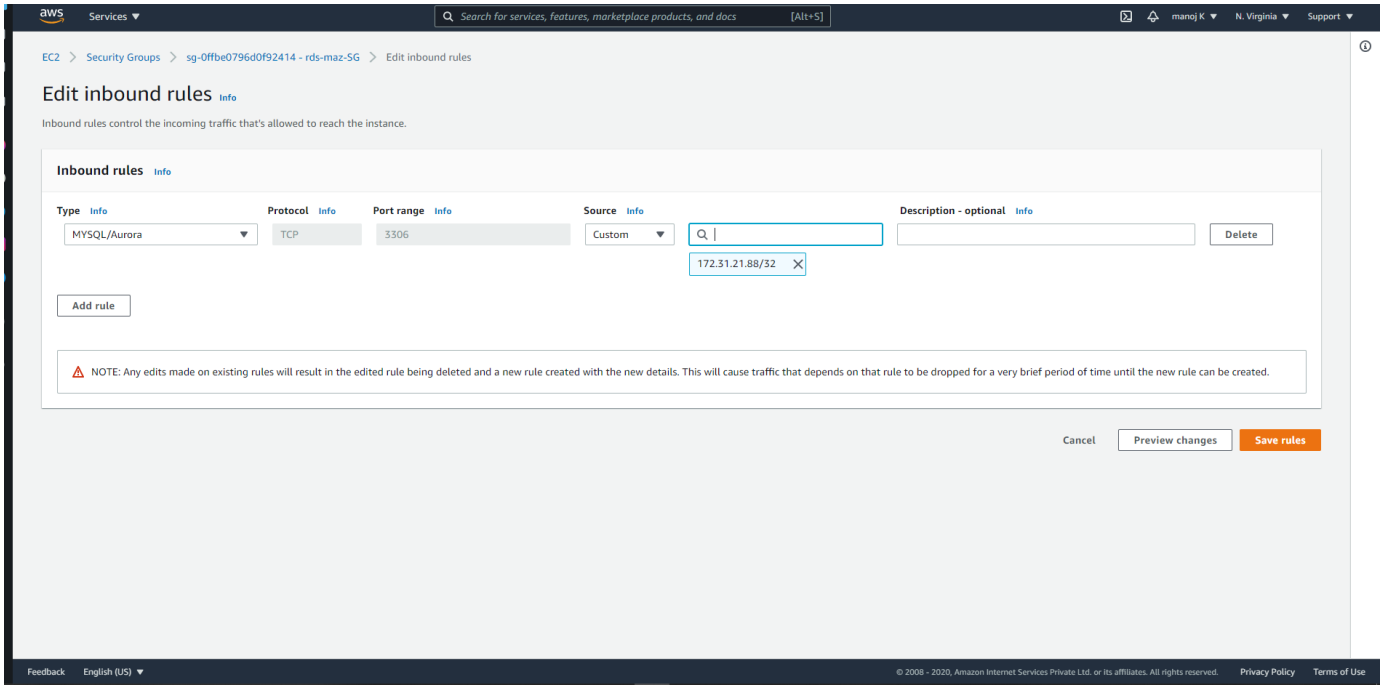


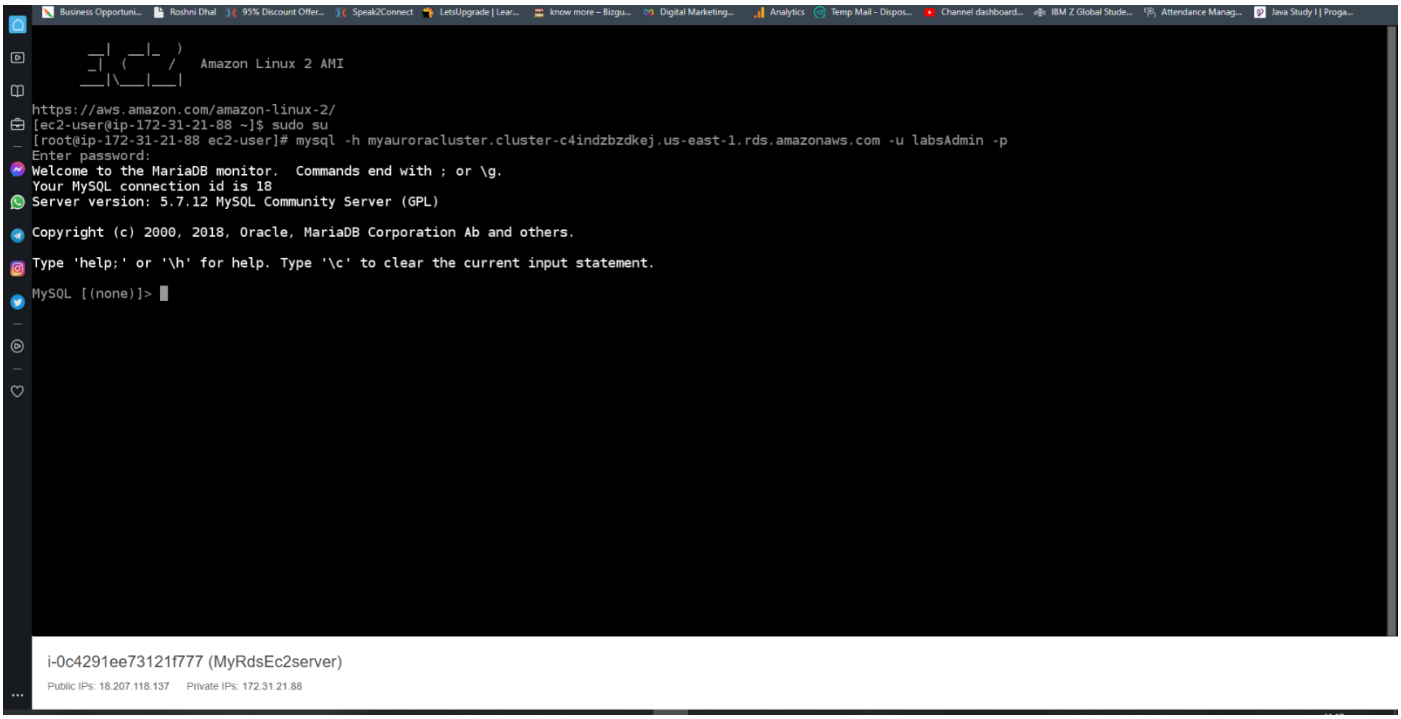
Connecting to the Aurora (MySQL) database on RDS

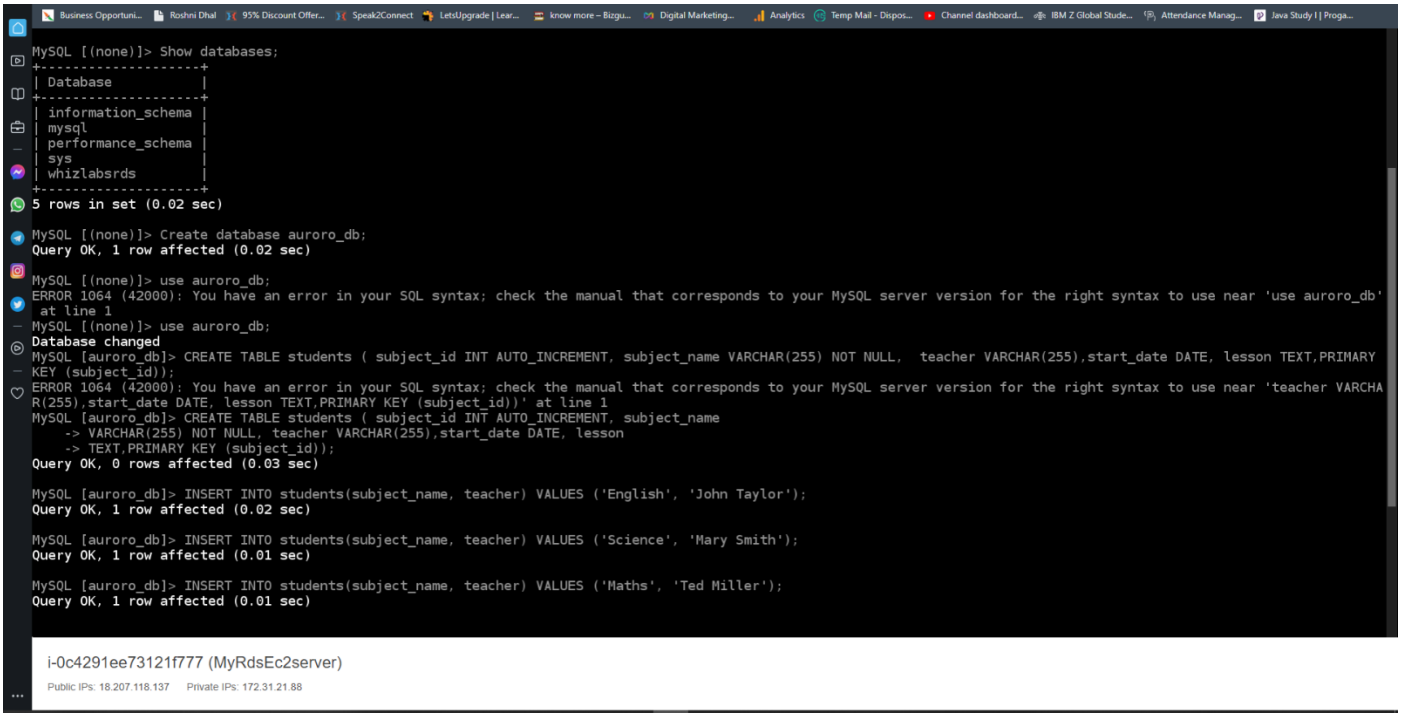




Changing security for RDS

Execute Database Operations via SSH

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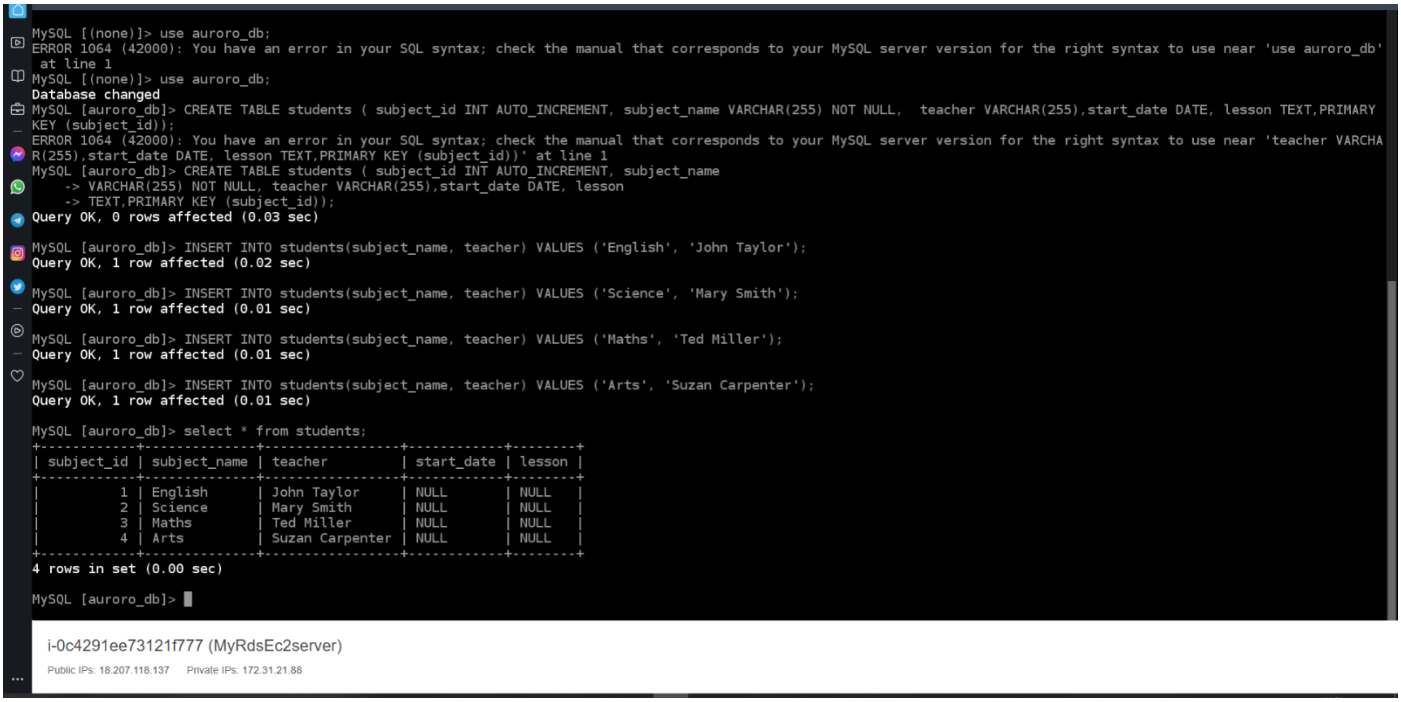
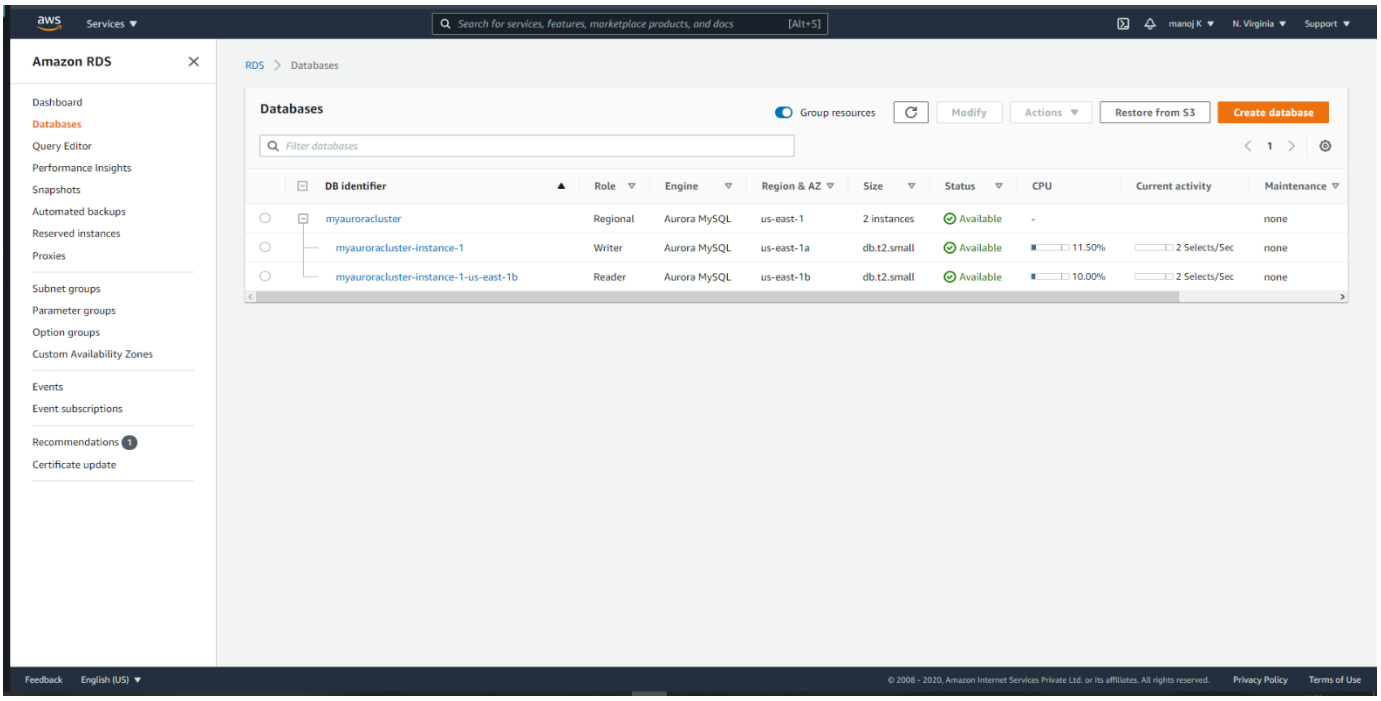
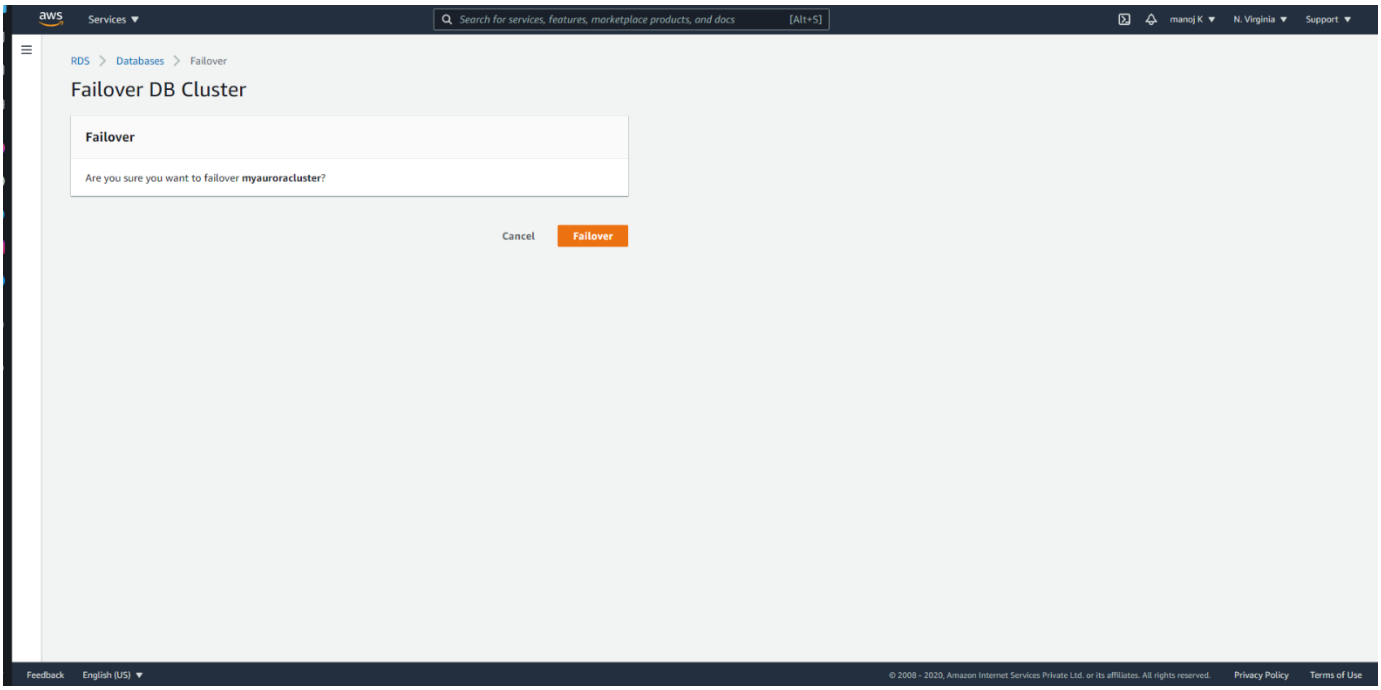
MySQL [(none)]> Show databases;
+--------------------+
| Database |
+--------------------+
| information_schema |
| mysql |
| performance_schema |
| sys |
| whizlabsrds |
+--------------------+
5 rows in set (0.02 sec)
MySQL [(none)]> Create database auroro_db;
Query OK, 1 row affected (0.02 sec)
MySQL [(none)]> use auroro_db;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'use auroro_db' at line 1
MySQL [(none)]> use auroro_db;
Database changed
MySQL [auroro_db]> CREATE TABLE students (subject_id INT AUTO_INCREMENT, subject_name VARCHAR(255) NOT NULL, teacher VARCHAR(255),start_date DATE, lesson TEXT,PRIMARY KEY (subject_id));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'teacher VARCHAR(255),start_date DATE, lesson TEXT,PRIMARY KEY (subject_id))' at line 1
MySQL [auroro_db]> CREATE TABLE students (subject_id INT AUTO_INCREMENT, subject_name
-> VARCHAR(255) NOT NULL, teacher VARCHAR(255),start_date DATE, lesson
-> TEXT,PRIMARY KEY (subject_id));
Query OK, 0 rows affected (0.03 sec)
MySQL [auroro_db]> INSERT INTO students(subject_name, teacher) VALUES ('English', 'John Taylor');
Query OK, 1 row affected (0.02 sec)
MySQL [auroro_db]> INSERT INTO students(subject_name, teacher) VALUES ('Science', 'Mary Smith');
Query OK, 1 row affected (0.01 sec)
MySQL [auroro_db]> INSERT INTO students(subject_name, teacher) VALUES ('Maths', 'Ted Miller');
Query OK, 1 row affected (0.01 sec)
i-0c4291ee73121f777 (MyRdsEc2server)
Public IPs: 18.207.118.137 Private IPs: 172.31.21.88


MySQL [(none)]> use auroro_db;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'use auroro_db' at line 1
MySQL [(none)]> use auroro_db;
Database changed
MySQL [auroro_db]> CREATE TABLE students (subject_id INT AUTO_INCREMENT, subject_name VARCHAR(255) NOT NULL, teacher VARCHAR(255),start_date DATE, lesson TEXT,PRIMARY KEY (subject_id));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'teacher VARCHAR(255),start_date DATE, lesson TEXT,PRIMARY KEY (subject_id))' at line 1
MySQL [auroro_db]> CREATE TABLE students (subject_id INT AUTO_INCREMENT, subject_name
-> VARCHAR(255) NOT NULL, teacher VARCHAR(255),start_date DATE, lesson
-> TEXT,PRIMARY KEY (subject_id));
Query OK, 0 rows affected (0.03 sec)
MySQL [auroro_db]> INSERT INTO students(subject_name, teacher) VALUES ('English', 'John Taylor');
Query OK, 1 row affected (0.02 sec)
MySQL [auroro_db]> INSERT INTO students(subject_name, teacher) VALUES ('Science', 'Mary Smith');
Query OK, 1 row affected (0.01 sec)
MySQL [auroro_db]> INSERT INTO students(subject_name, teacher) VALUES ('Maths', 'Ted Miller');
Query OK, 1 row affected (0.01 sec)
MySQL [auroro_db]> INSERT INTO students(subject_name, teacher) VALUES ('Arts', 'Suzan Carpenter');
Query OK, 1 row affected (0.01 sec)
MySQL [auroro_db]> select * from students;
+------------+--------------+-----------------+------------+--------+
| subject_id | subject_name | teacher | start_date | lesson |
+------------+--------------+-----------------+------------+--------+
1	English	John Taylor	NULL	NULL
2	Science	Mary Smith	NULL	NULL
3	Maths	Ted Miller	NULL	NULL
4	Arts	Suzan Carpenter	NULL	NULL
+------------+--------------+-----------------+------------+--------+
4 rows in set (0.00 sec)
MySQL [auroro_db]>
i-0c4291ee73121f777 (MyRdsEc2server)
Public IPs: 18.207.118.137 Private IPs: 172.31.21.88

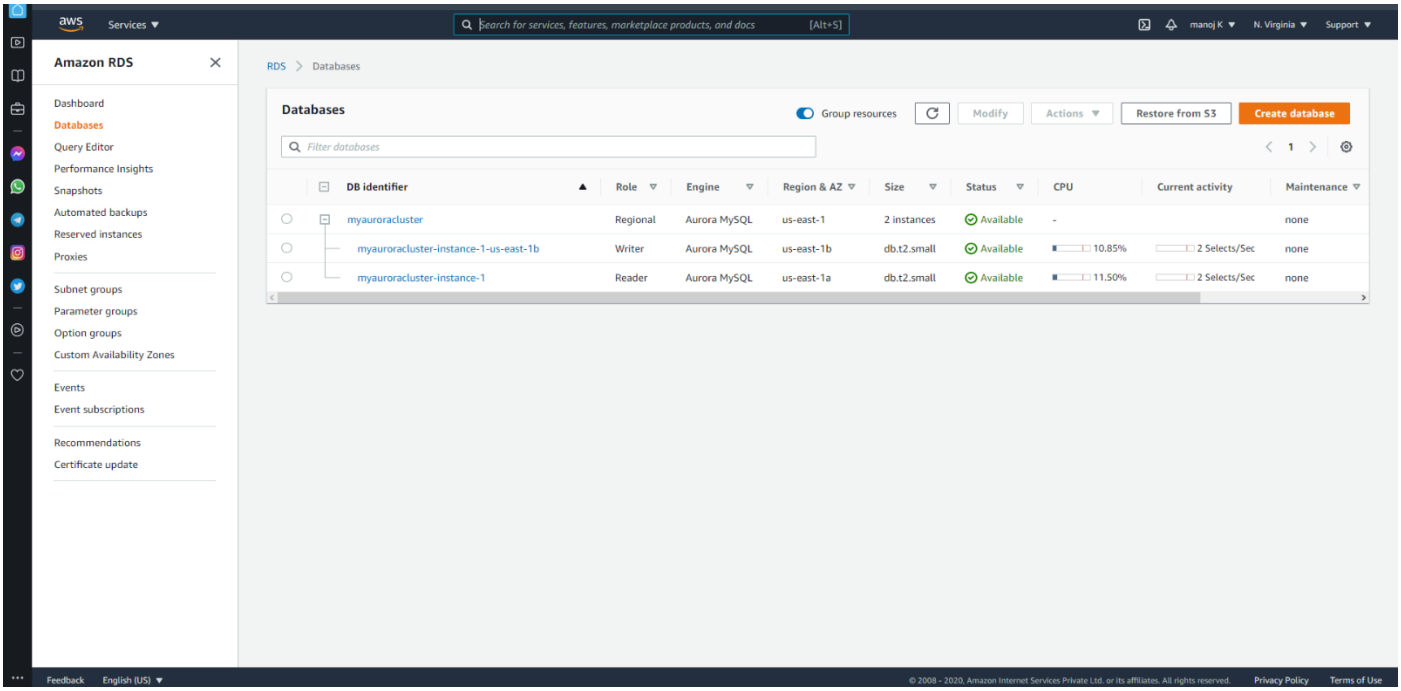
Forcing a Failover to Test Multi-AZ



Cluster before forcing a failover

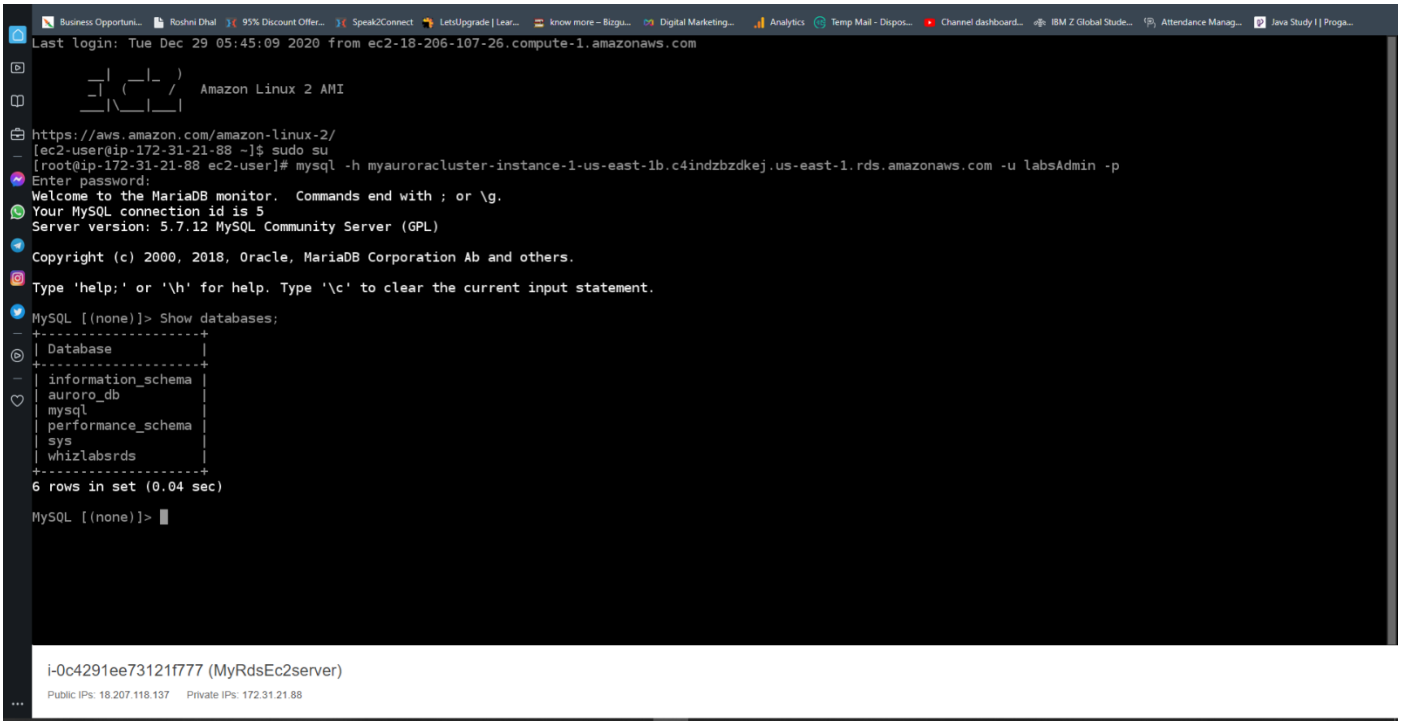


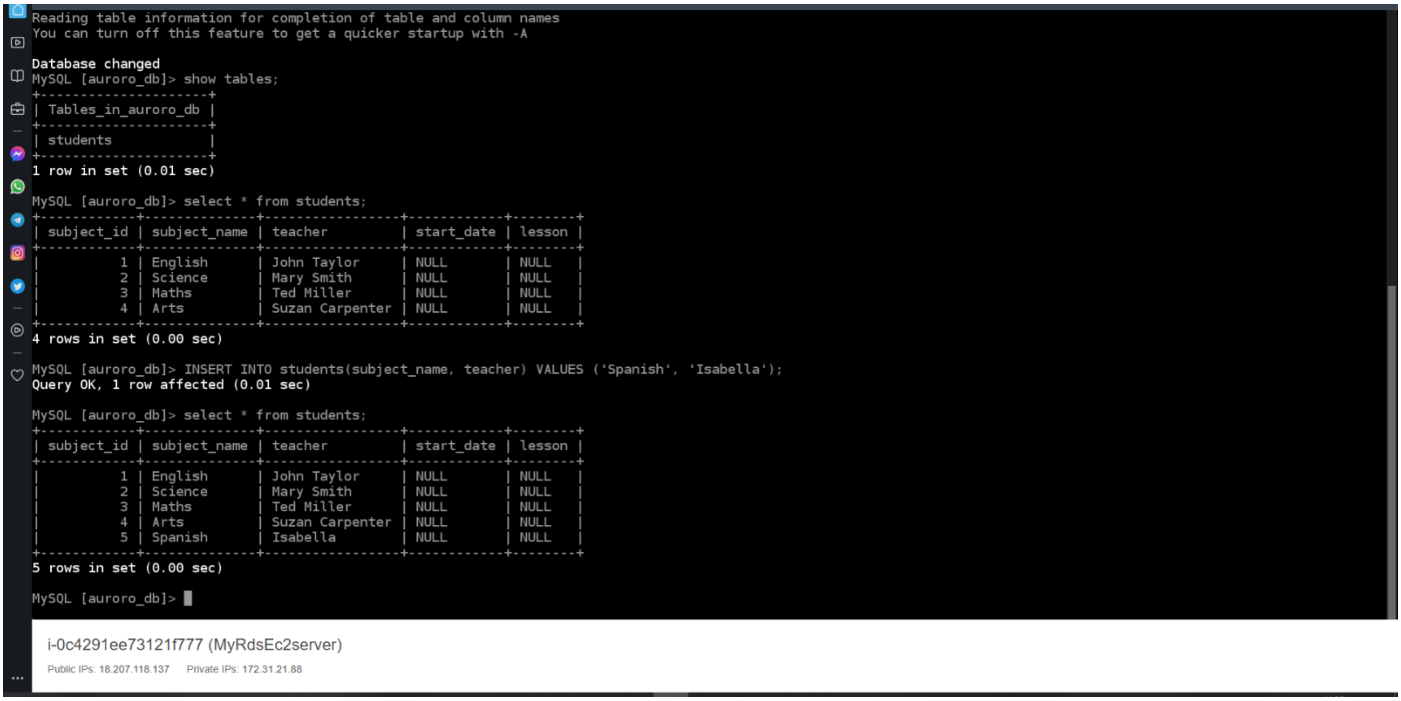
Creating failover of the Writer



Changing of writer and reader after failover

Testing the Failover Condition




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 [auroro_db]> show tables;
+--------------------+
| Tables_in_auroro_db |
+--------------------+
| students |
+--------------------+
1 row in set (0.01 sec)
MySQL [auroro_db]> select * from students;
+------------+--------------+----------------+------------+--------+
| subject_id | subject_name | teacher | start_date | lesson |
+------------+--------------+----------------+------------+--------+
1	English	John Taylor	NULL	NULL
2	Science	Mary Smith	NULL	NULL
3	Maths	Ted Miller	NULL	NULL
4	Arts	Suzan Carpenter	NULL	NULL
+------------+--------------+----------------+------------+--------+
4 rows in set (0.00 sec)
MySQL [auroro_db]> INSERT INTO students(subject_name, teacher) VALUES ('Spanish', 'Isabella');
Query OK, 1 row affected (0.01 sec)
MySQL [auroro_db]> select * from students;
+------------+--------------+----------------+------------+--------+
| subject_id | subject_name | teacher | start_date | lesson |
+------------+--------------+----------------+------------+--------+
1	English	John Taylor	NULL	NULL
2	Science	Mary Smith	NULL	NULL
3	Maths	Ted Miller	NULL	NULL
4	Arts	Suzan Carpenter	NULL	NULL
5	Spanish	Isabella	NULL	NULL
+------------+--------------+----------------+------------+--------+
5 rows in set (0.00 sec)
MySQL [auroro_db]>
i-0c4291ee73121f777 (MyRdsEc2server)
Public IPs: 18.207.118.137 Private IPs: 172.31.21.88