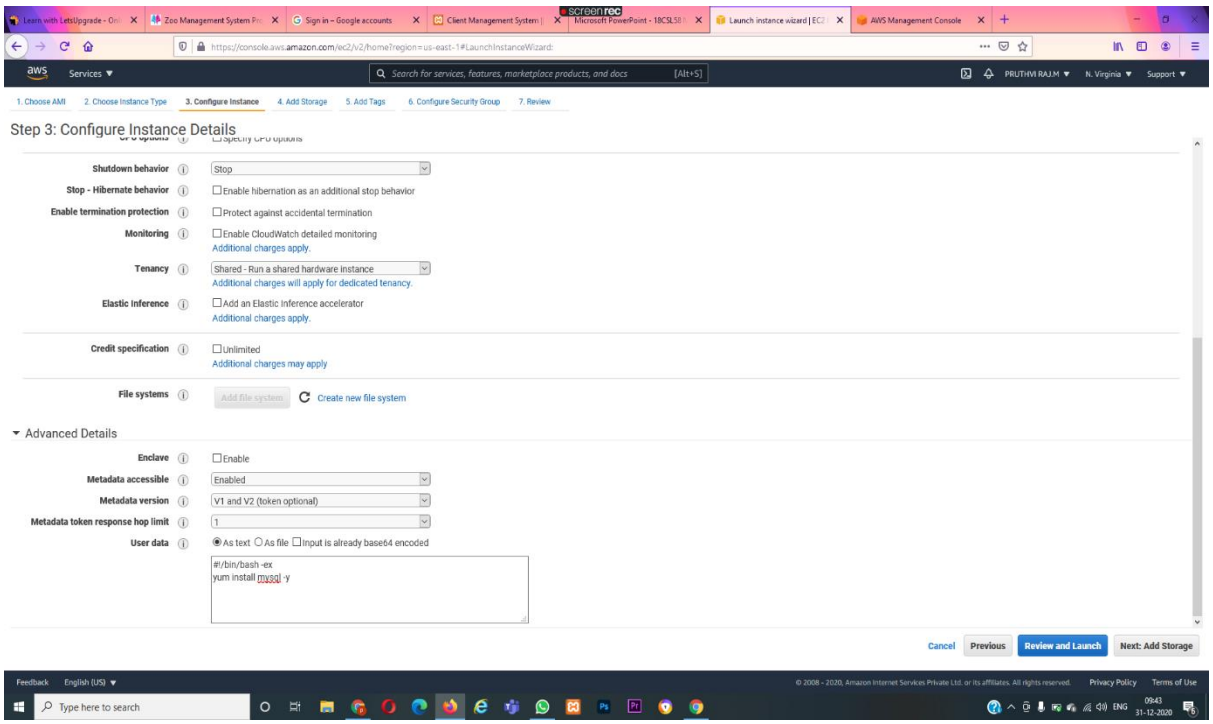
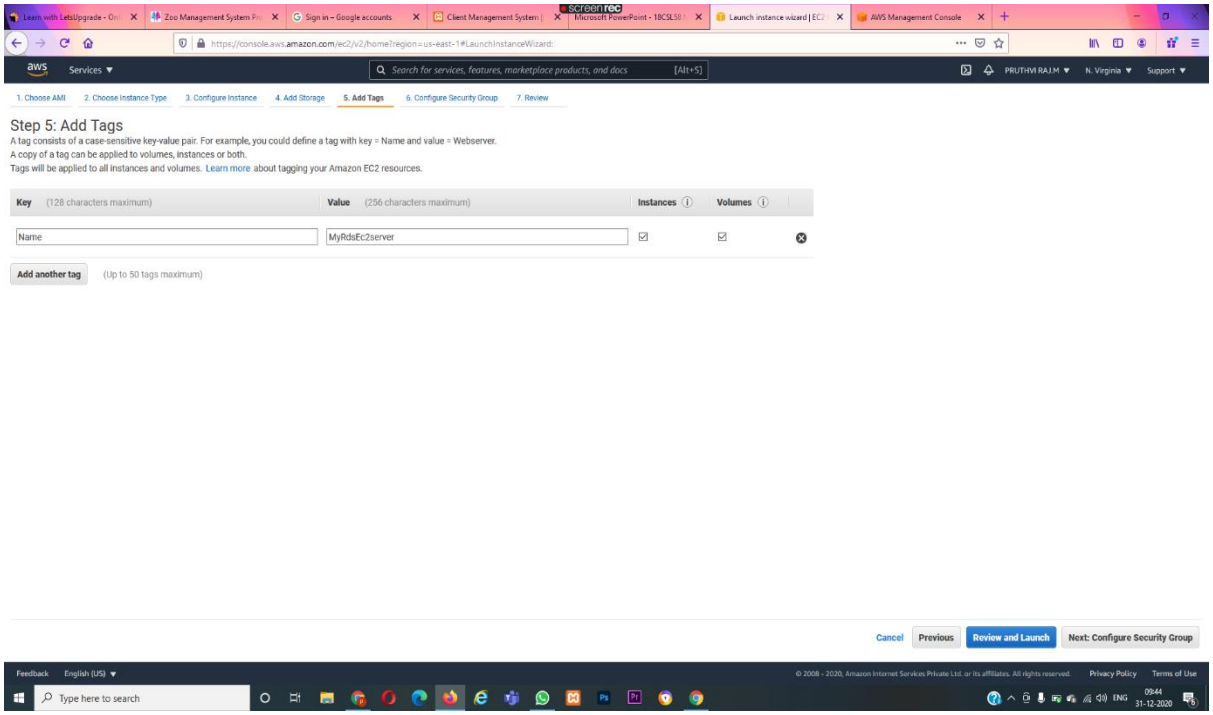
AWS PROJECT 2

PRUTHVI RAJ.M

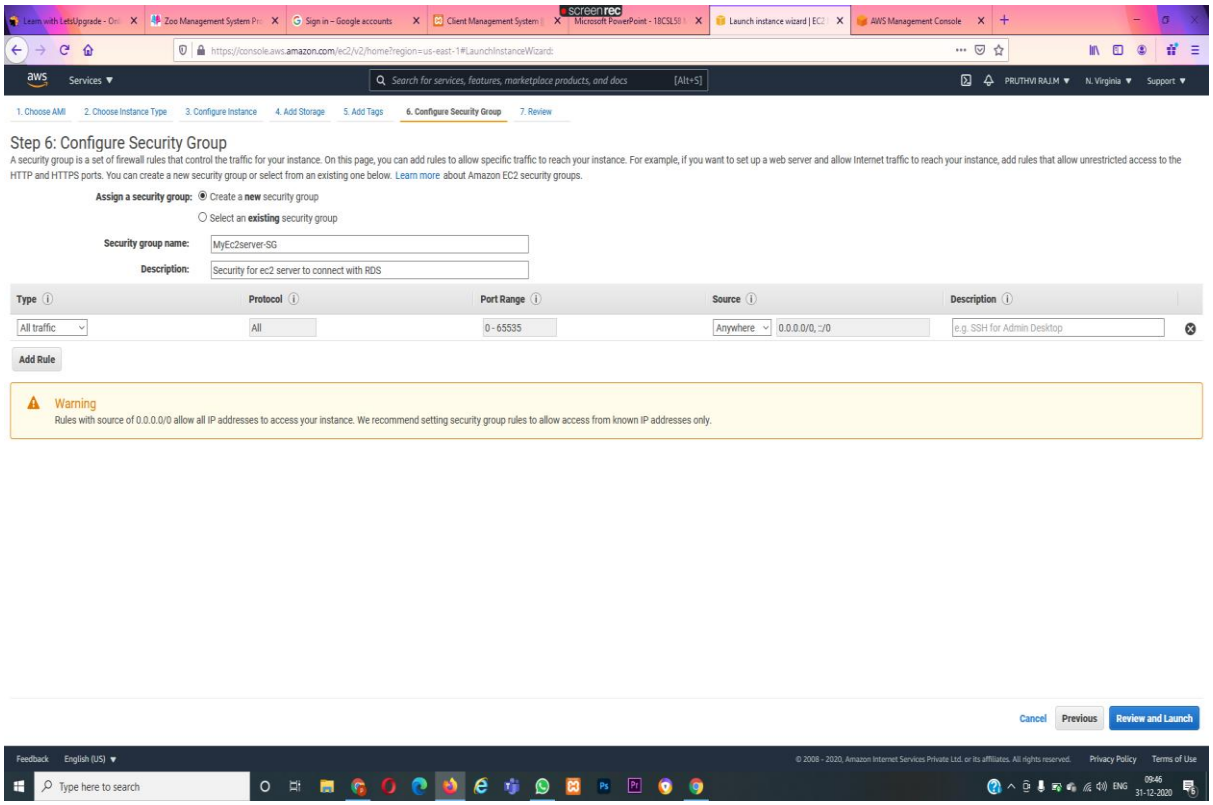
INSTALLING MYSQL IN LINUX INSTANCE BY BOOTSTRAPPING METHOD



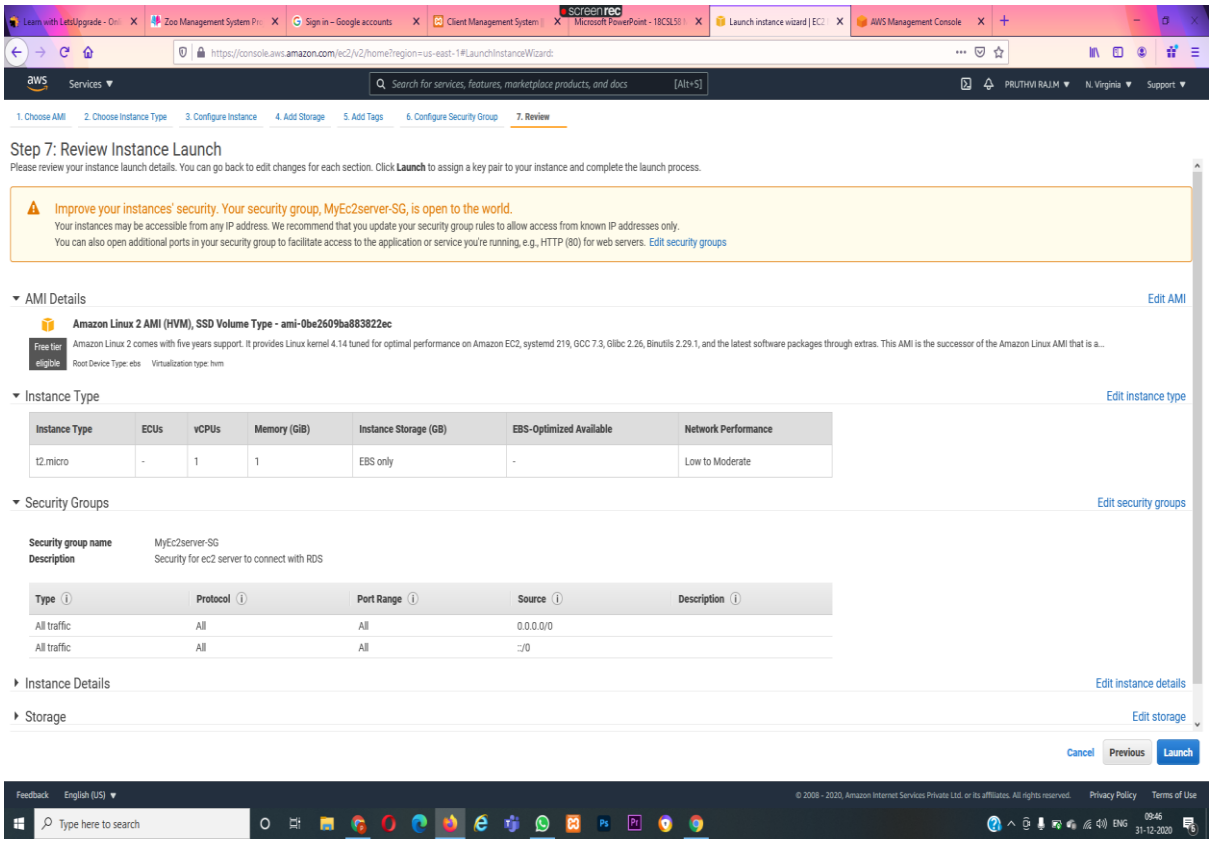
KEY VALUE FOR INSTANCE WHICH IS BEEN CREATED



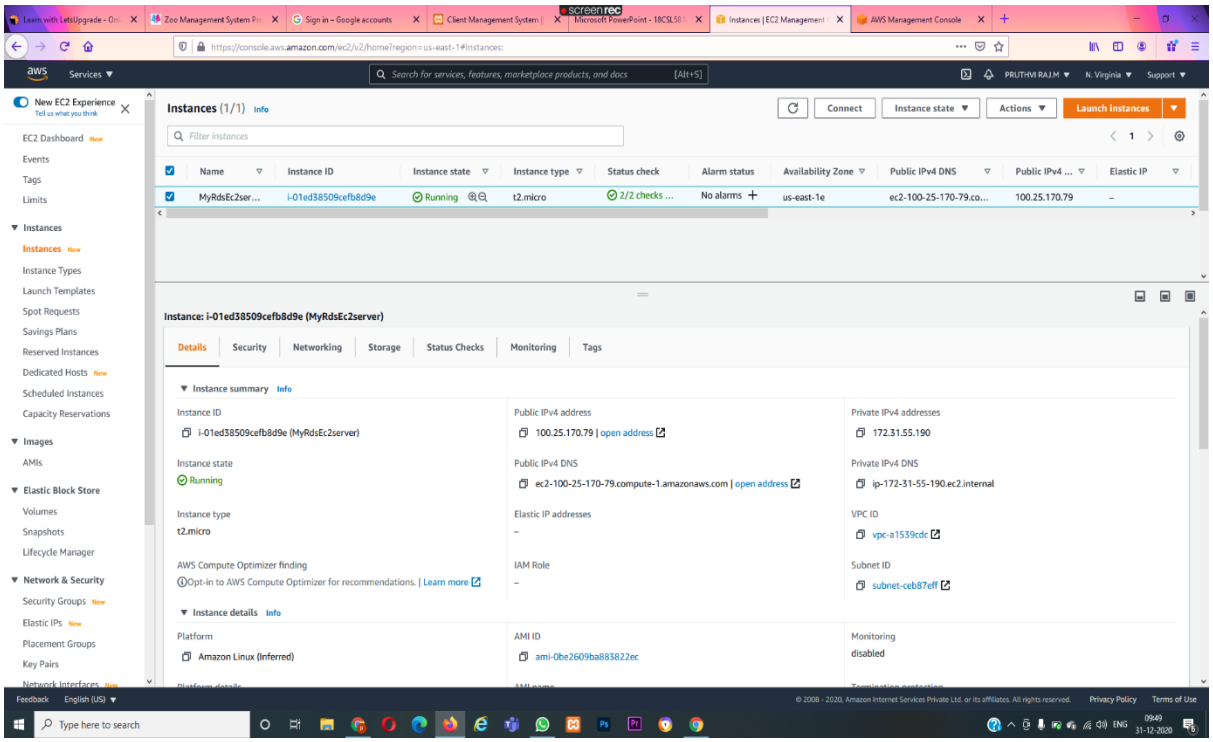
SECURITY GROUP FOR EC2 INSTANCE



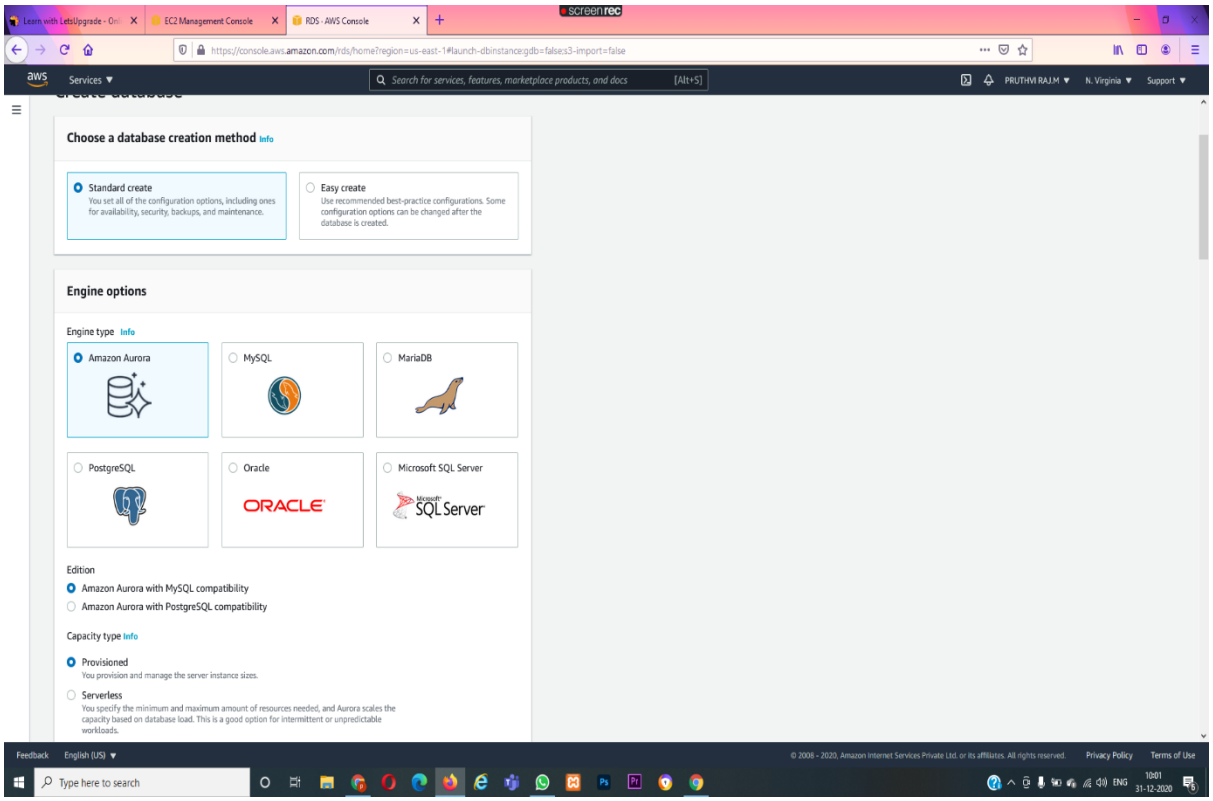
EC2 INSTANCE REVIEW

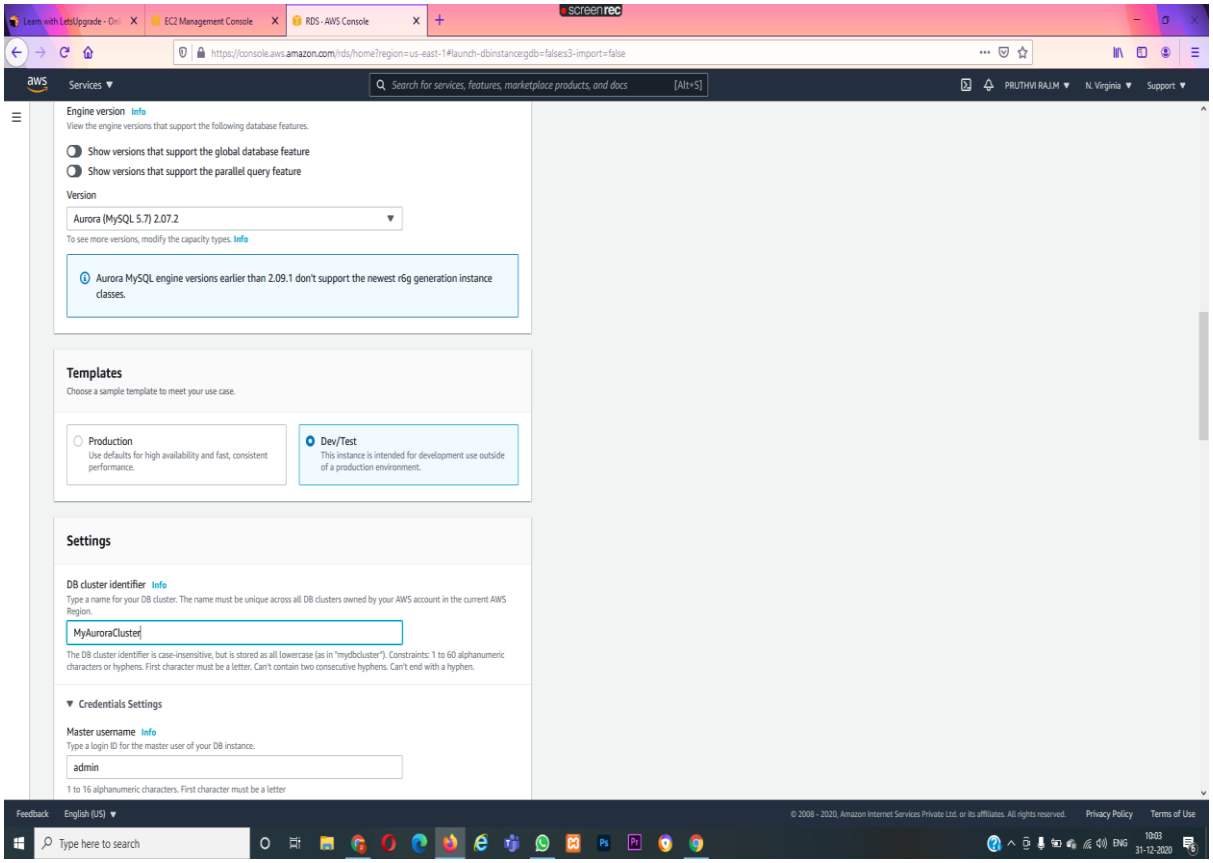


INSTANCE DETAILS



CREATING AN AMAZON AURORA DATABASE WITH MULTI-AZ ENABLED

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screenrec
https://console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false;s3-import=false
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Support
Engine version Info
View the engine versions that support the following database features.
Show versions that support the global database feature
Show versions that support the parallel query feature
Version
Aurora (MySQL 5.7) 2.07.2
To see more versions, modify the capacity types. Info
Aurora MySQL engine versions earlier than 2.09.1 don't support the newest r6g generation instance classes.
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.
admin
1 to 16 alphanumeric characters. First character must be a letter
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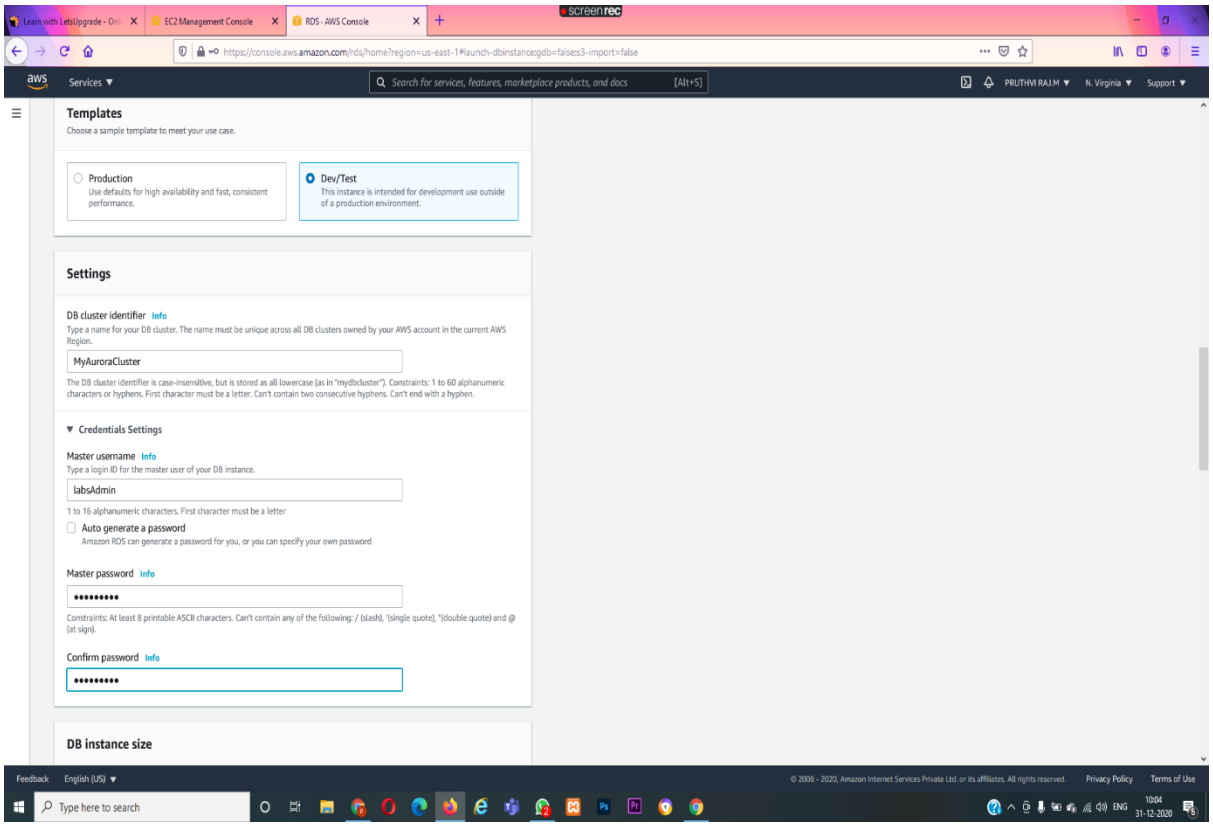
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The DB cluster identifier is case-insensitive, but is stored as all lowercase (as in "mydbcluster"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a 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
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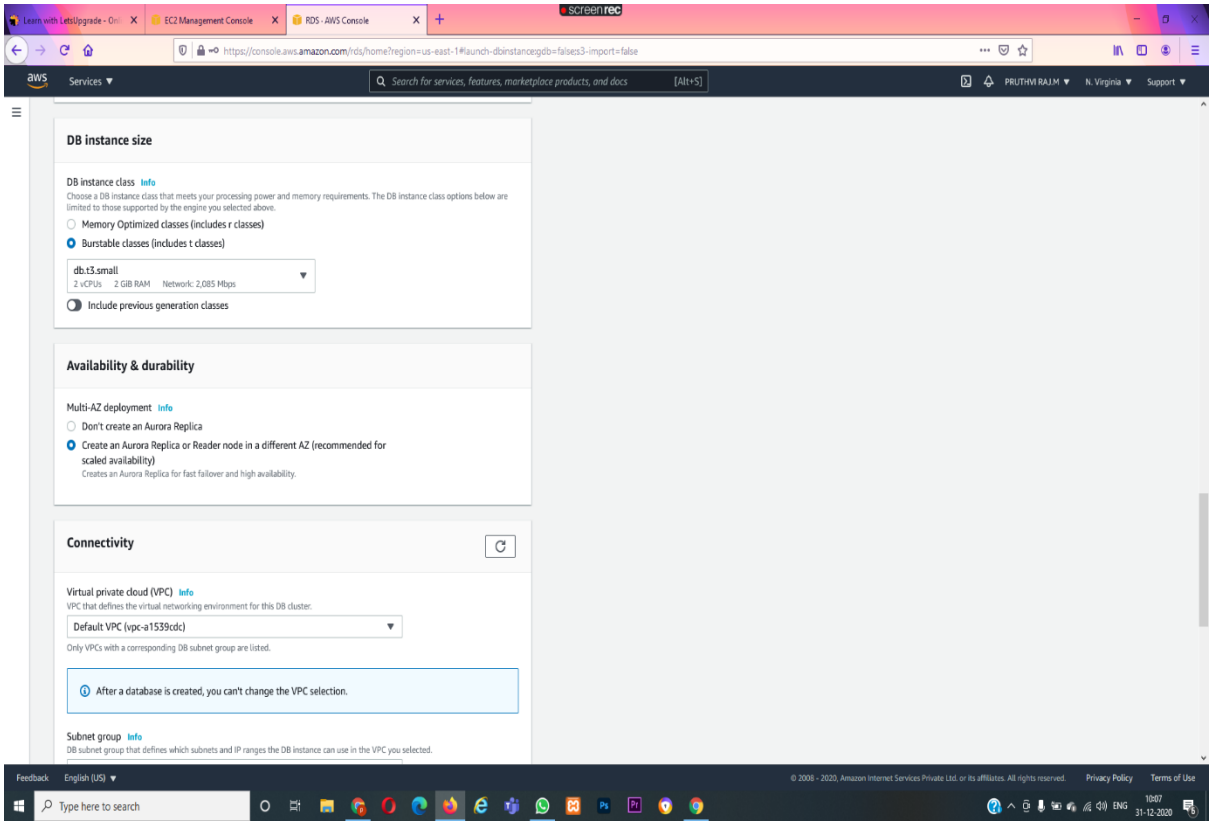
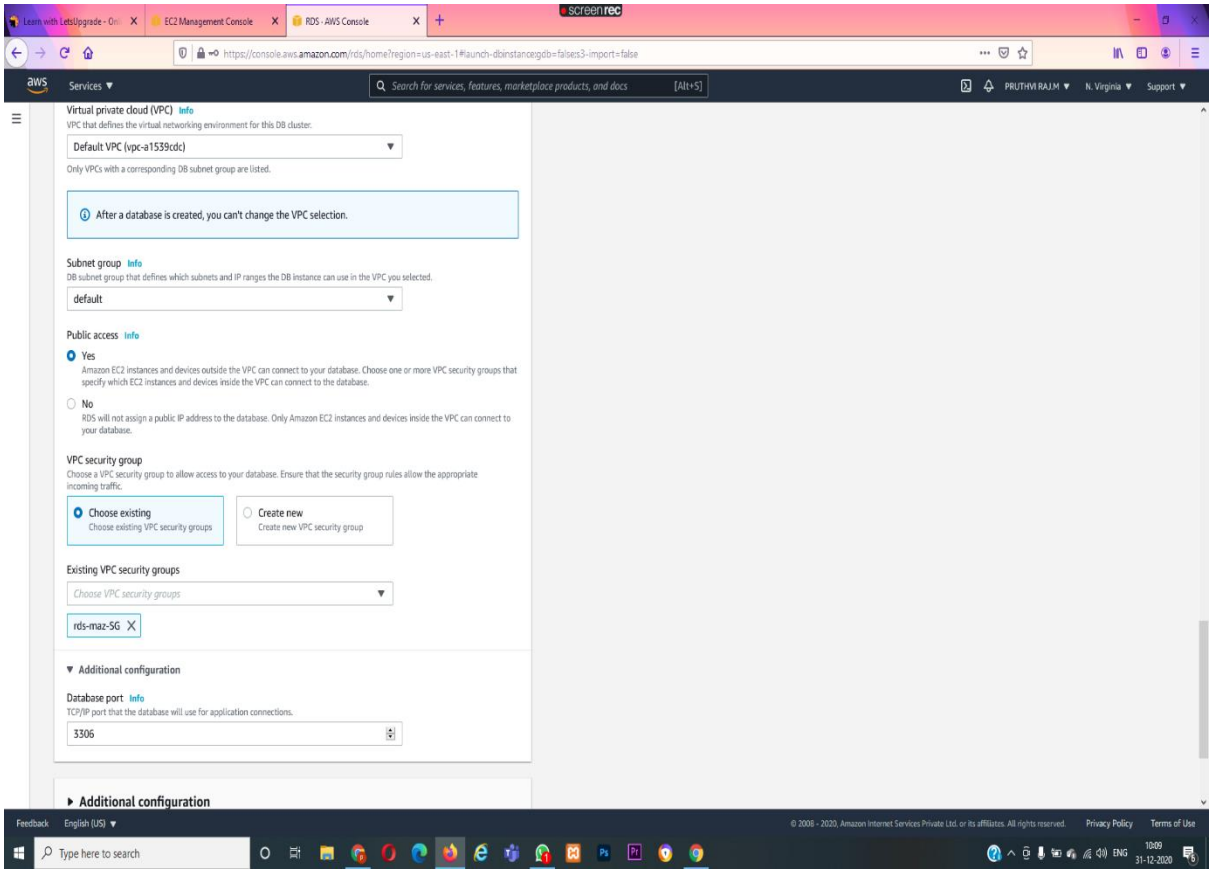
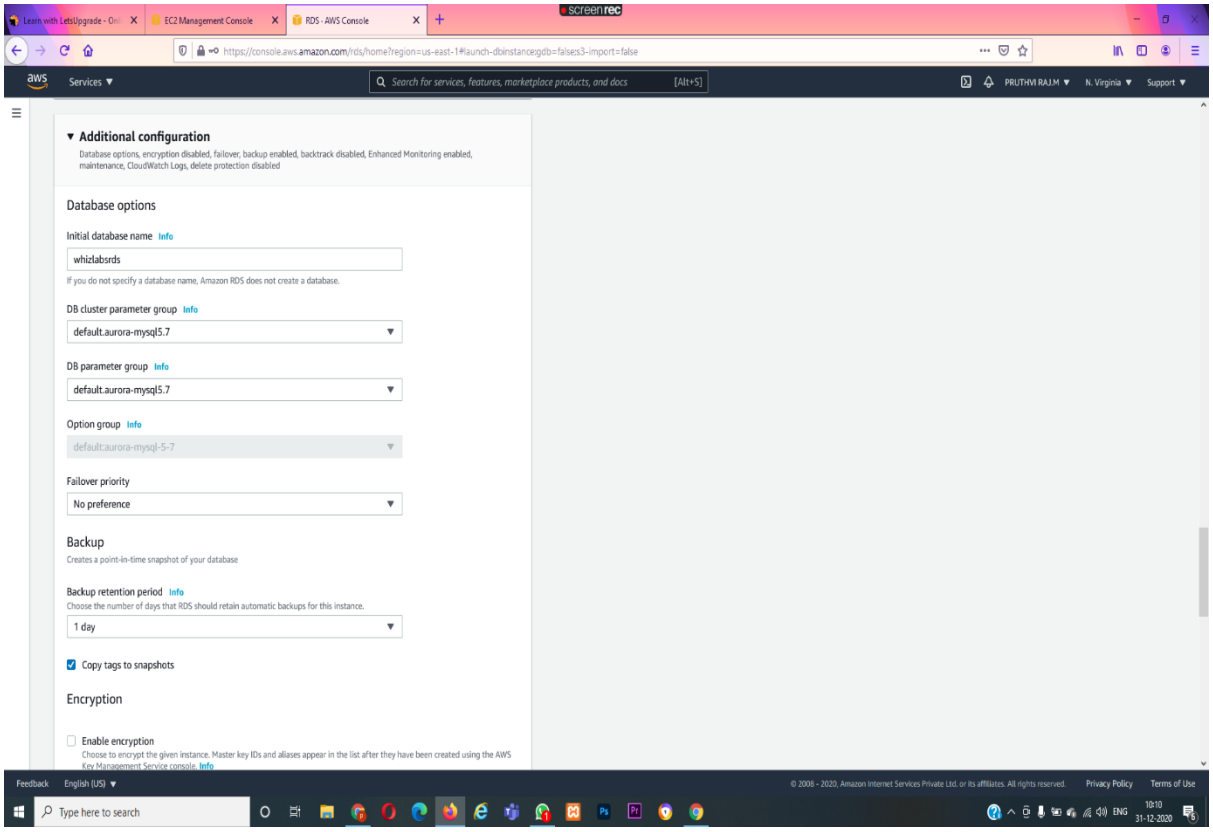

DB instance size
DB instance class Info
Choose a DB instance class that meets your processing power and memory requirements. The DB instance class options below are limited to those supported by the engine you selected above.
Memory Optimized classes (includes r classes)
Burstable classes (includes t classes)
db.t3.small
2 vCPUs 2 GiB RAM Network: 2,085 Mbps
Include previous generation classes
Availability & durability
Multi-AZ deployment Info
Don't create an Aurora Replica
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.
Connectivity
Virtual private cloud (VPC) Info
VPC that defines the virtual networking environment for this DB cluster.
Default VPC (vpc-a1539cdc)
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.


Virtual private cloud (VPC) Info
VPC that defines the virtual networking environment for this DB cluster.
Default VPC (vpc-a1539cdc)
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
Database port Info
TCP/IP port that the database will use for application connections.
3306
Additional configuration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https://console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false;s3-import=false
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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
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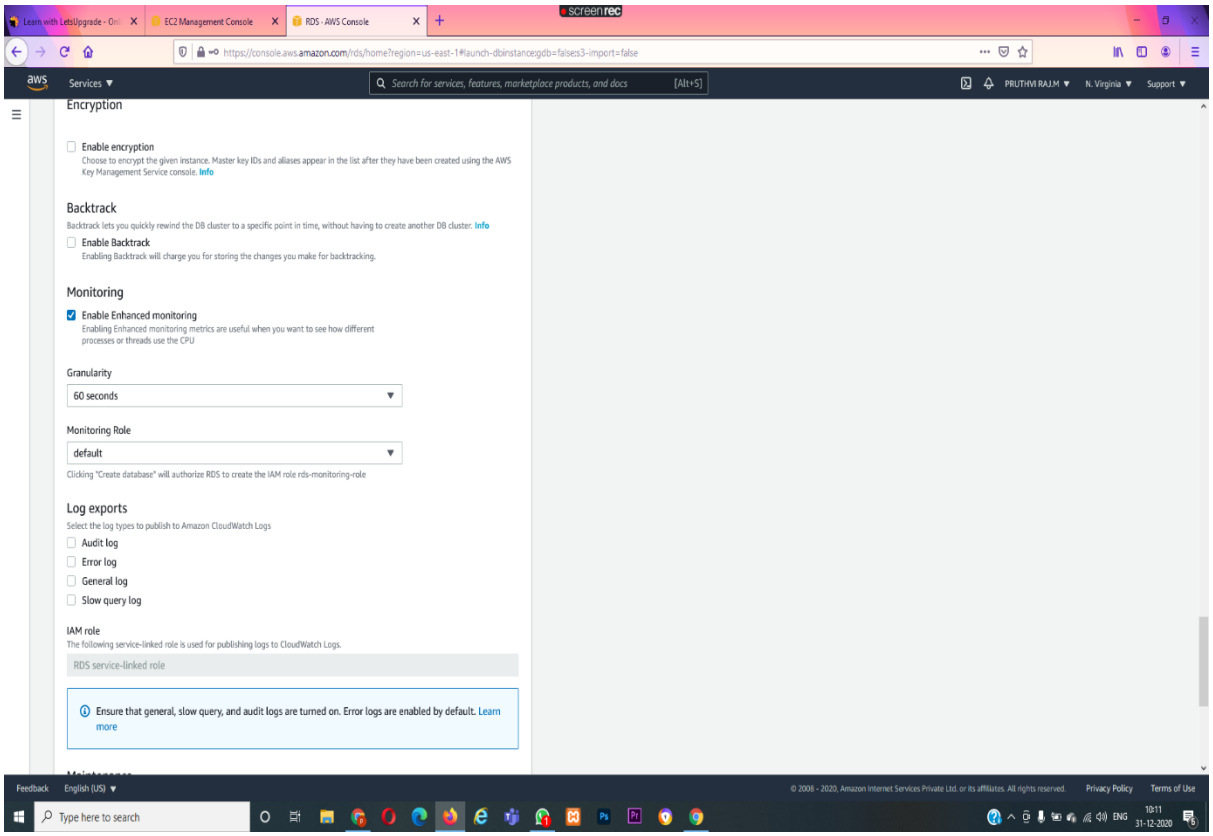
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https://console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false;s3-import=false
aws
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Encryption
Enable encryption
Choose to encrypt the given instance. Master key IDs and aliases appear in the list after they have been created using the AWS Key Management Service console. Info
Backtrack
Backtrack lets you quickly rewind the DB cluster to a specific point in time, without having to create another DB cluster. Info
Enable Backtrack
Enabling Backtrack will charge you for storing the changes you make for backtracking.
Monitoring
Enable Enhanced monitoring
Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU
Granularity
60 seconds
Monitoring Role
default
Clicking "Create database" will authorize RDS to create the IAM role rds-monitoring-role
Log exports
Select the log types to publish to Amazon CloudWatch Logs
Audit log
Error log
General log
Slow query log
IAM role
The following service-linked role is used for publishing logs to CloudWatch Logs.
RDS service-linked role
Ensure that general, slow query, and audit logs are turned on. Error logs are enabled by default. Learn more
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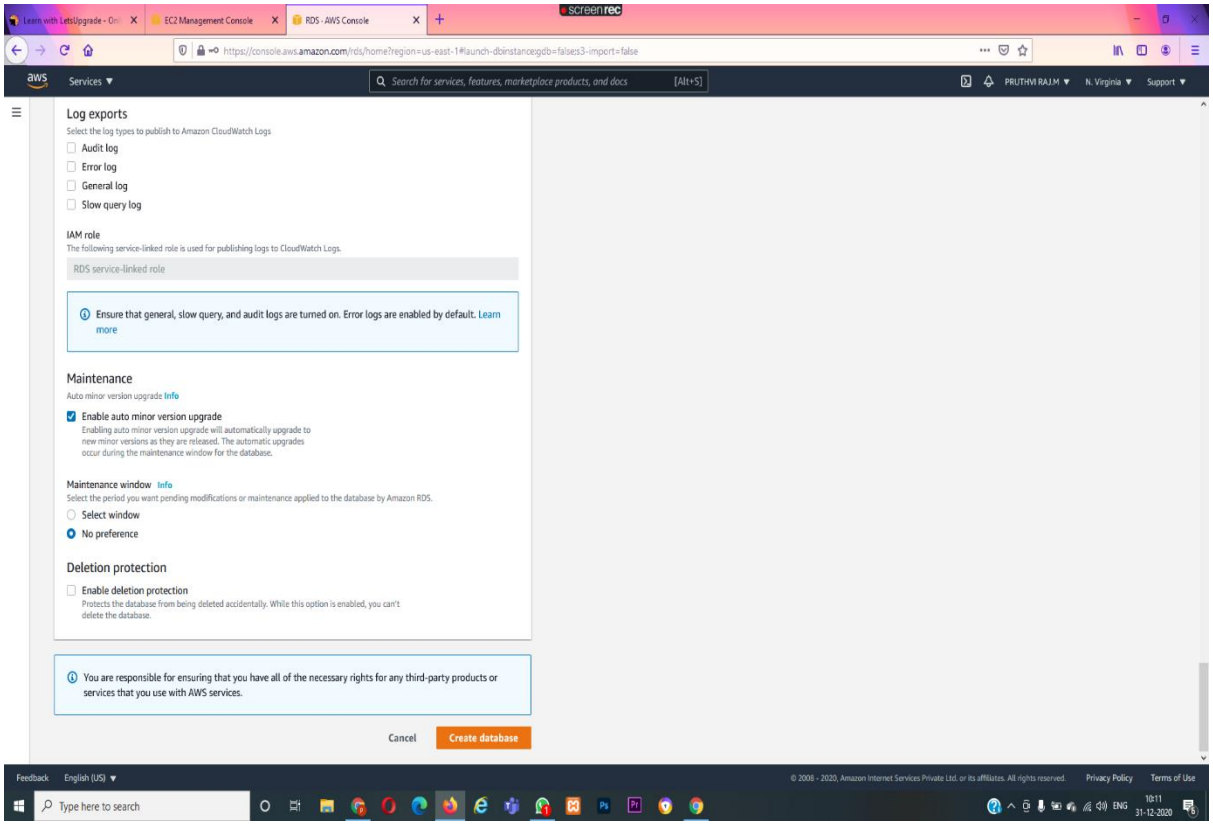
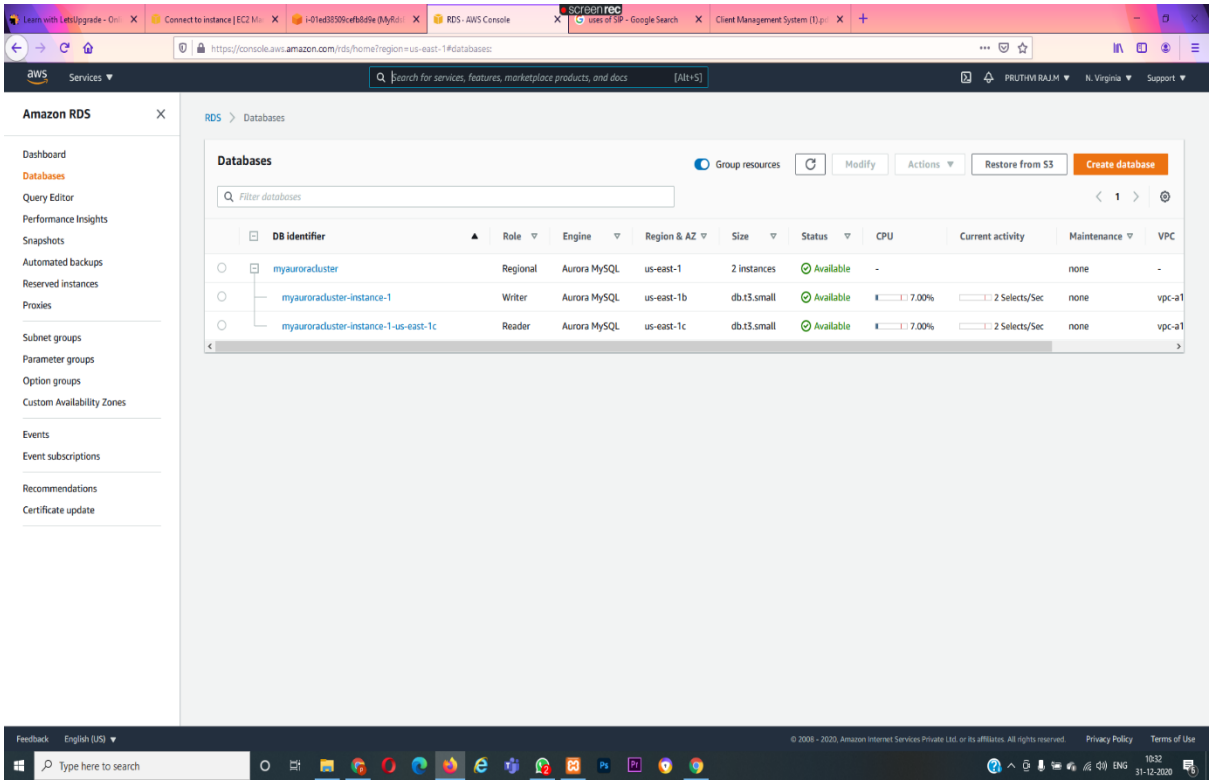
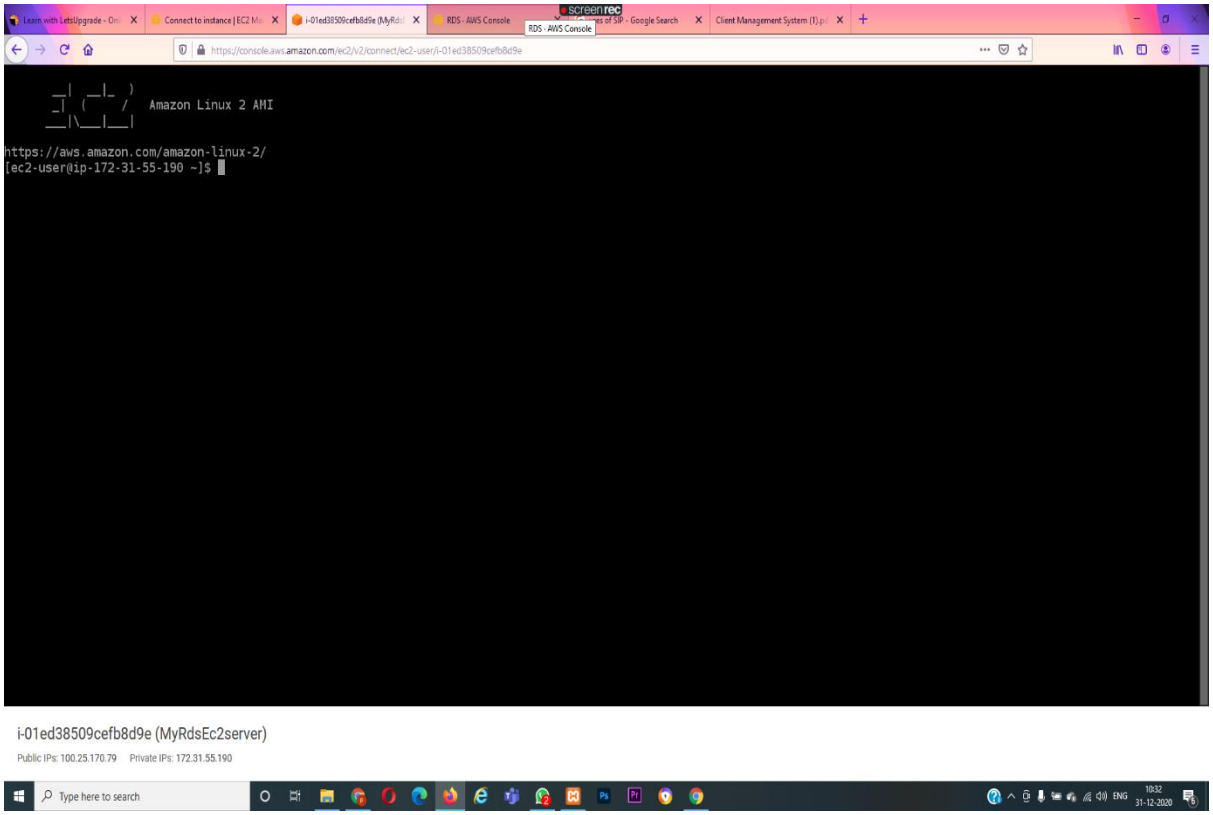
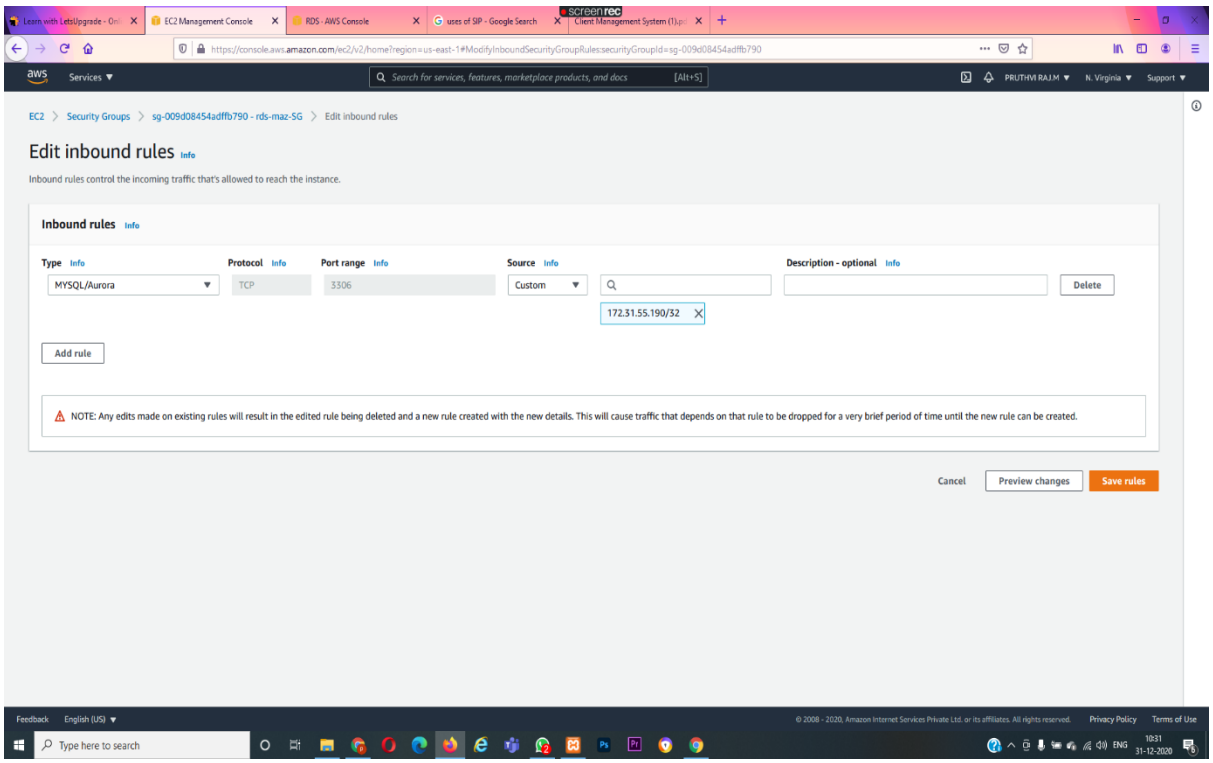


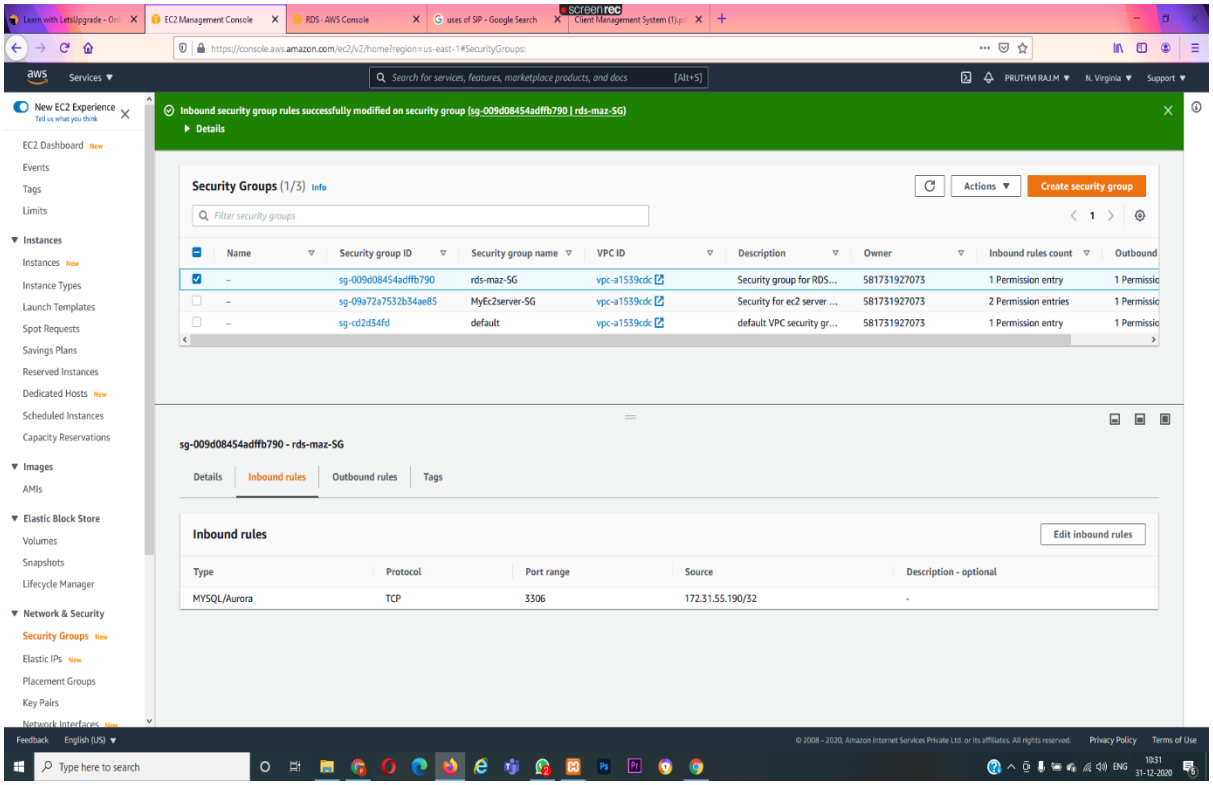
CONNECTING TO THE AURORA DATABASE ON RDS



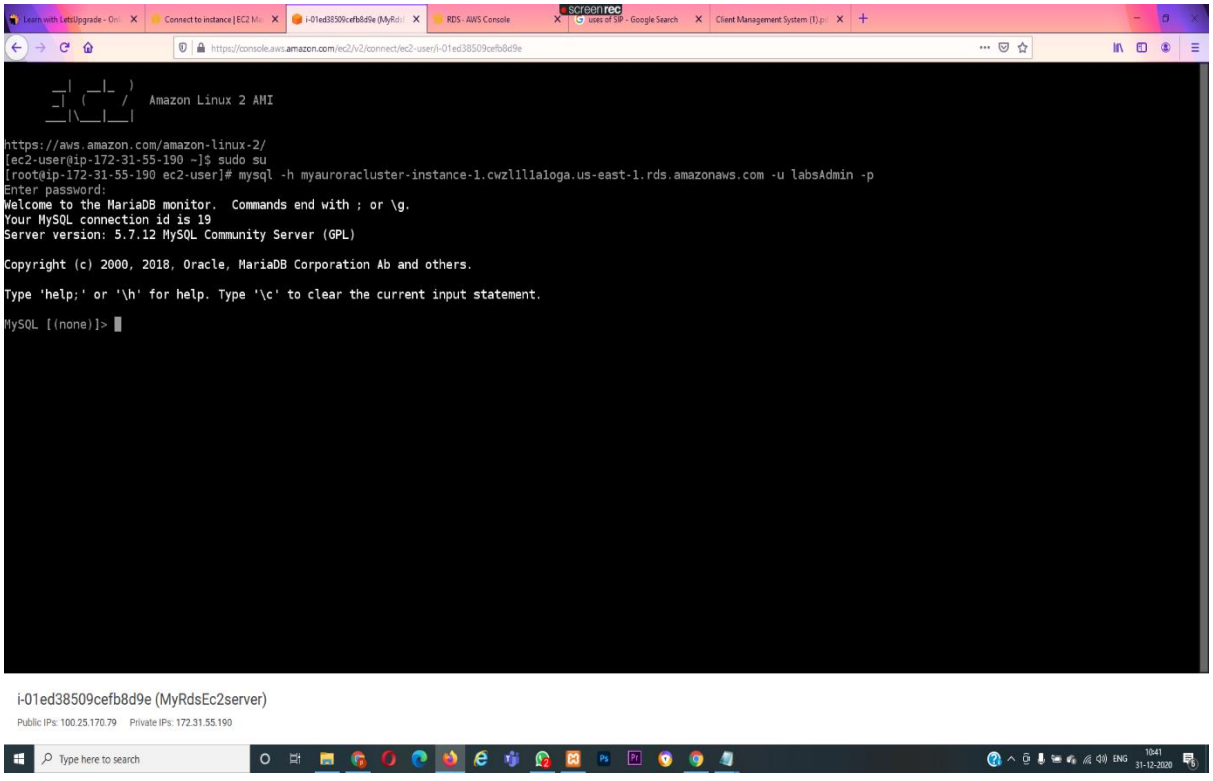


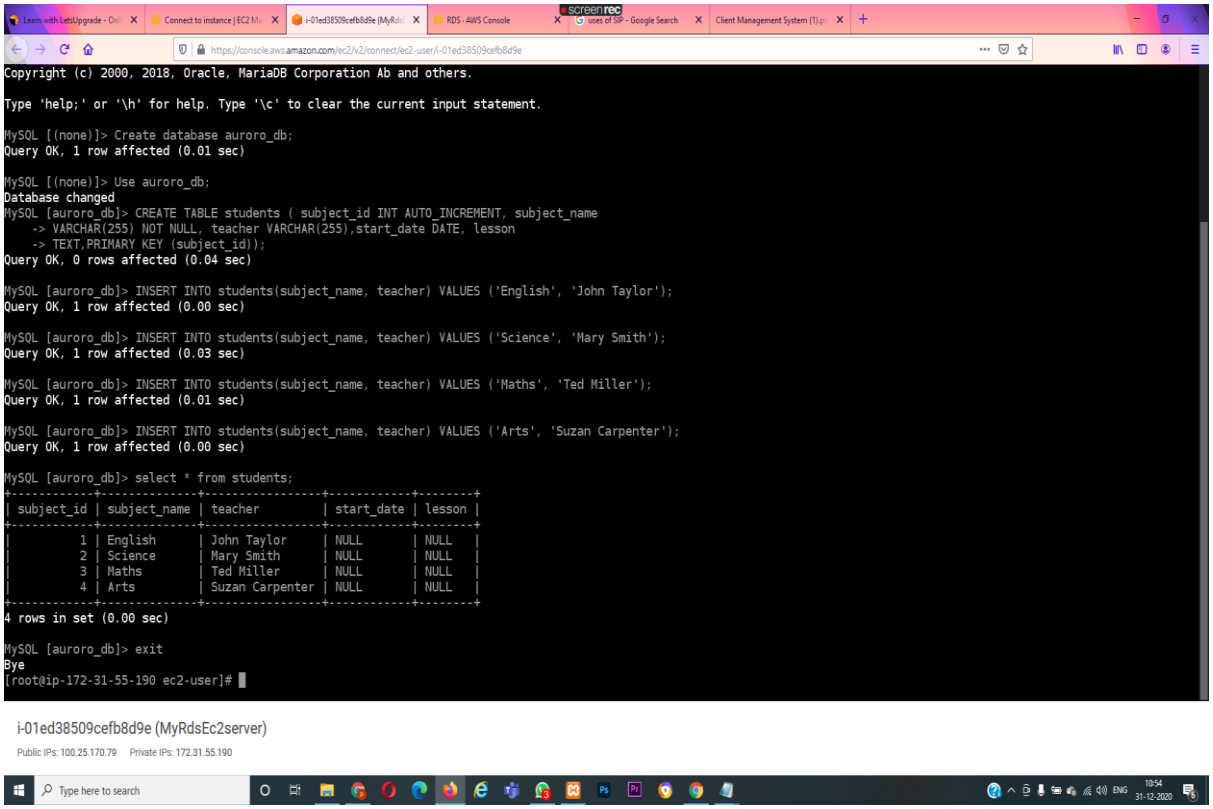
CHANGING SECURITY FOR RDS



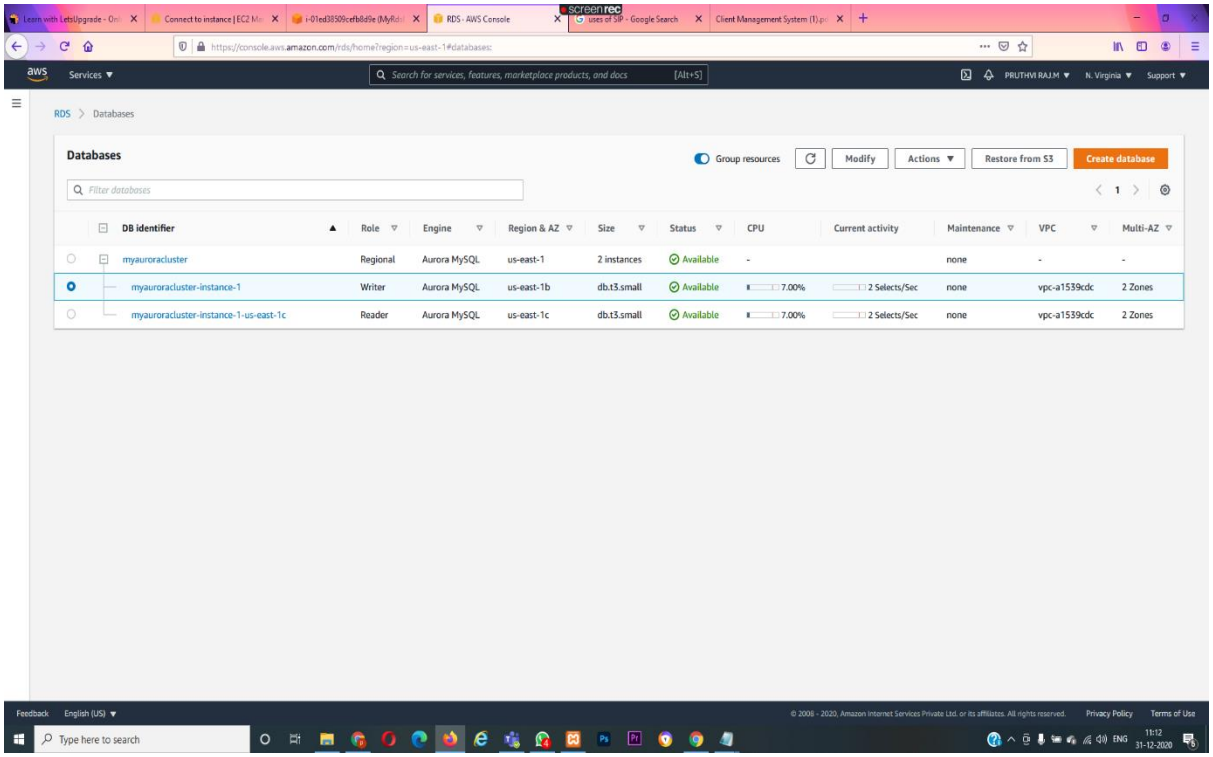


EXICUTE DATABASE OPERATIONS VIA SSH

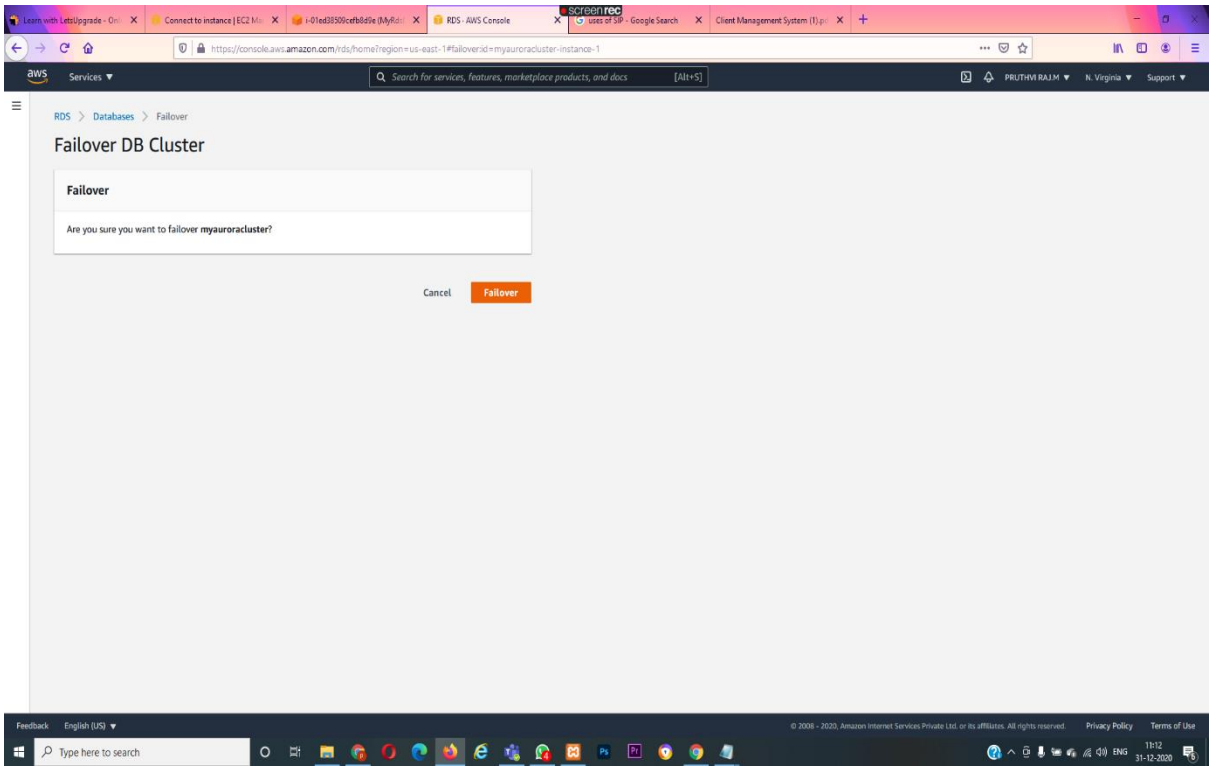




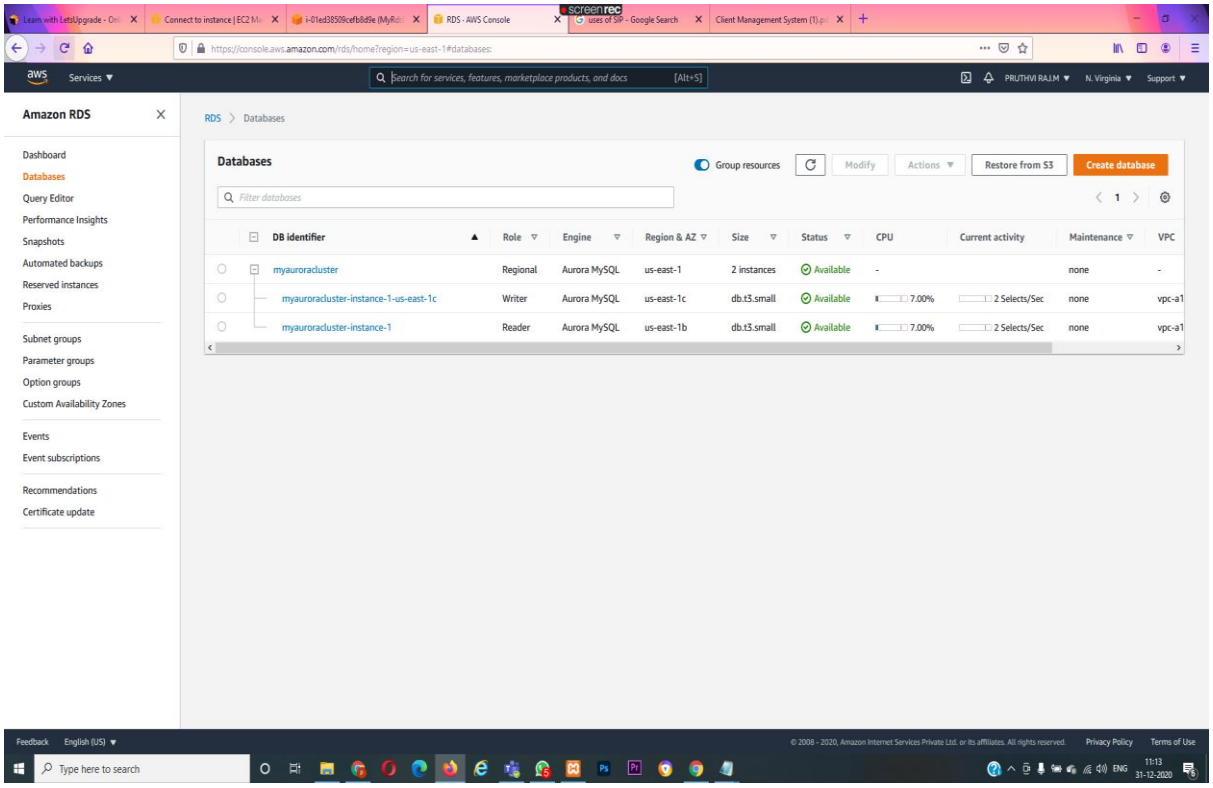
FORCING A FAILOVER TO TEST MULTI-AZ



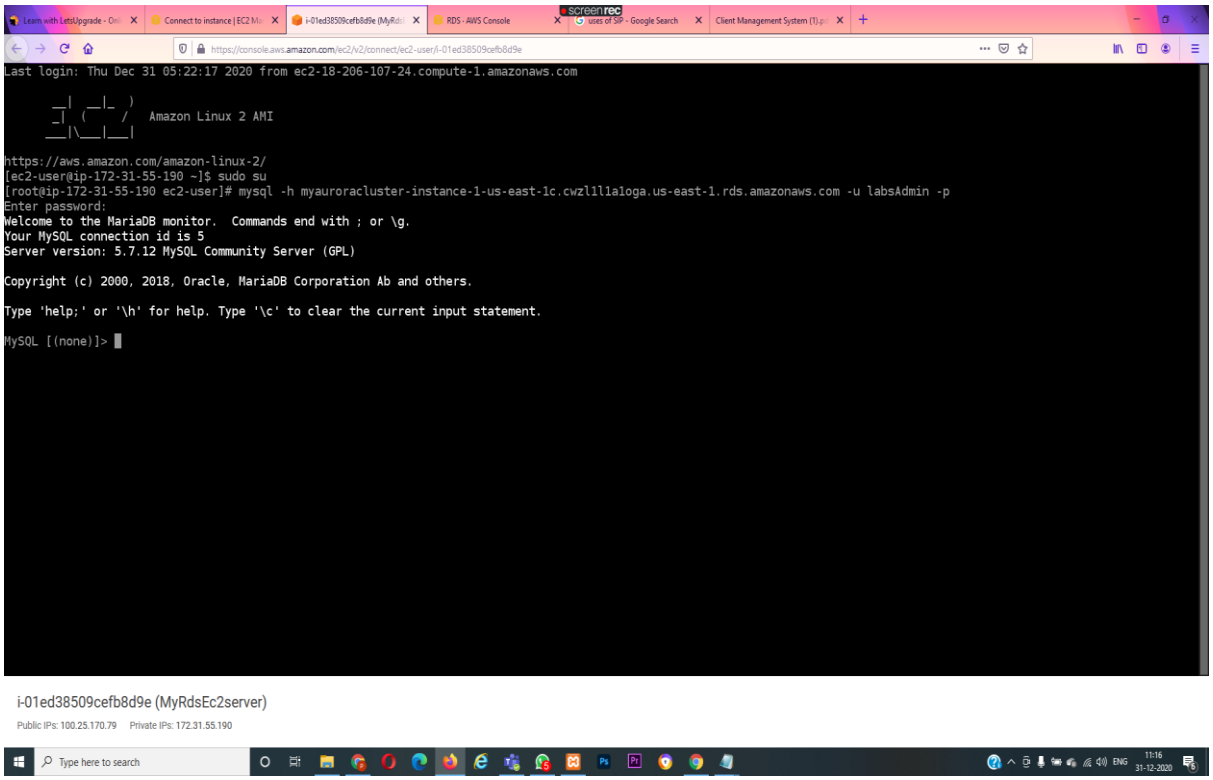
CREATING FAILOVER OF THE WRITER

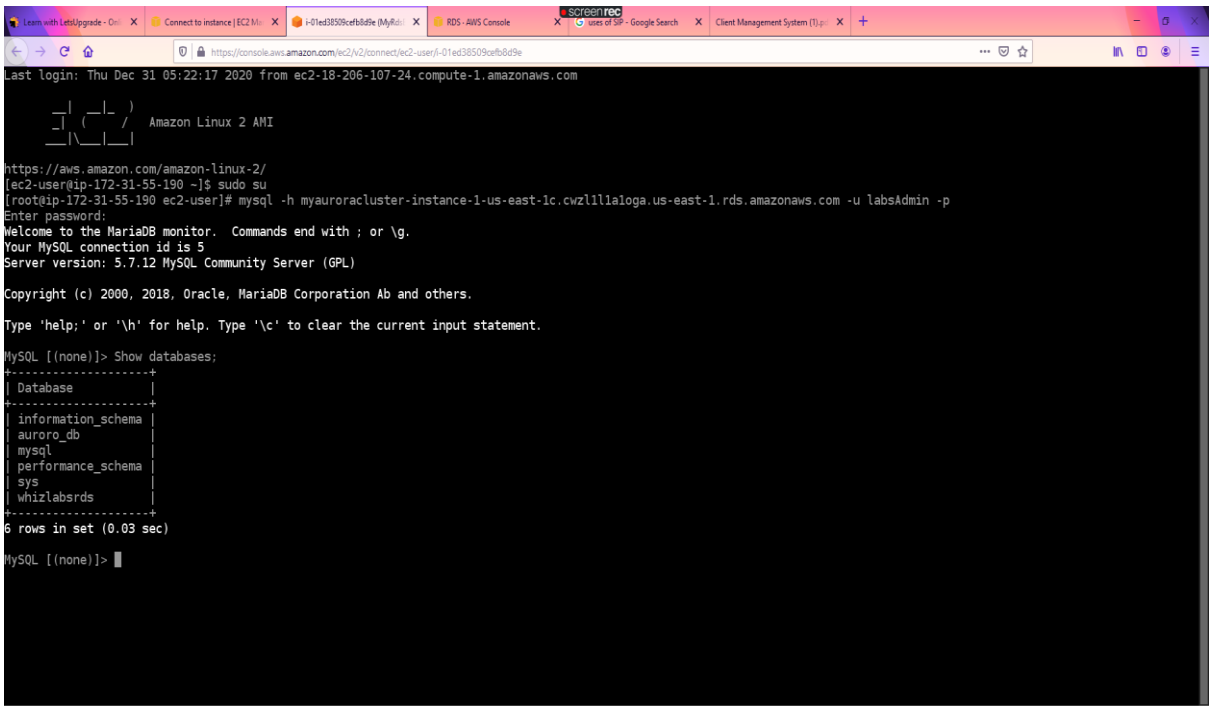


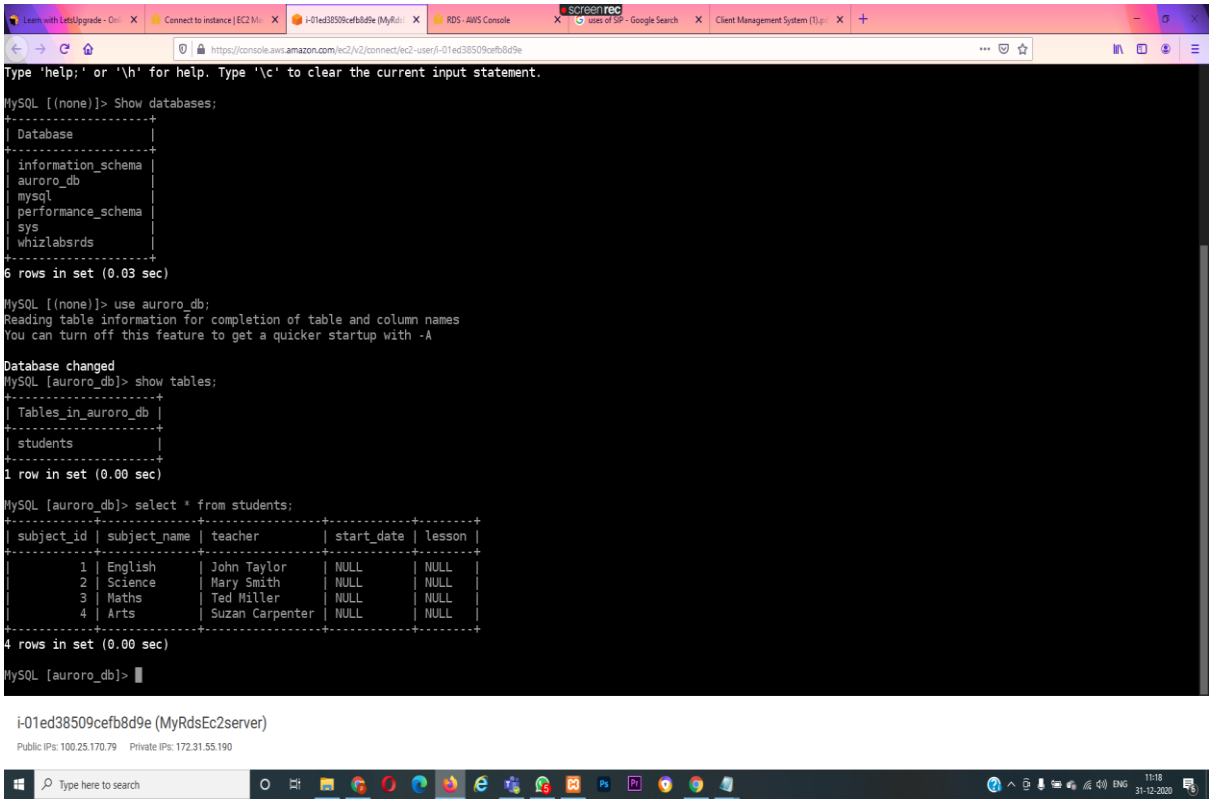
CHANGING OF WRITER AND READER AFTER FAILOVER



TESTING THE FAILOVER CONDITION







i-01ed38509cefb8d9e (MyRdsEc2server)

Public IPs: 100.25.170.79 Private IPs: 172.31.55.190

THANK YOU