

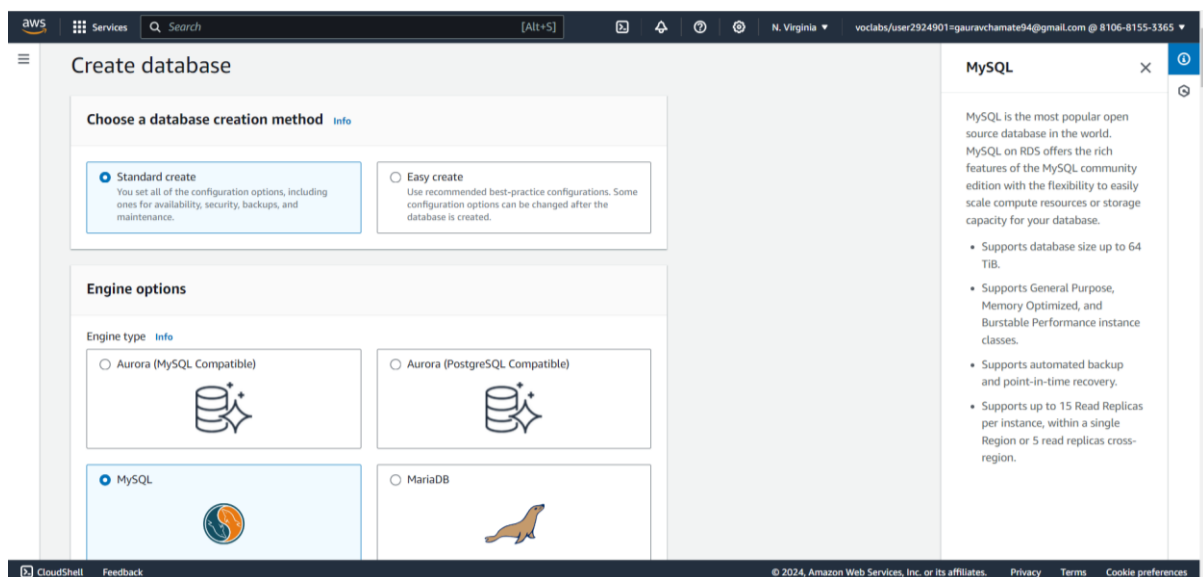
Use this hands-on to get started with managed relational database service - RDS.

The following are the goals of this hands-on:

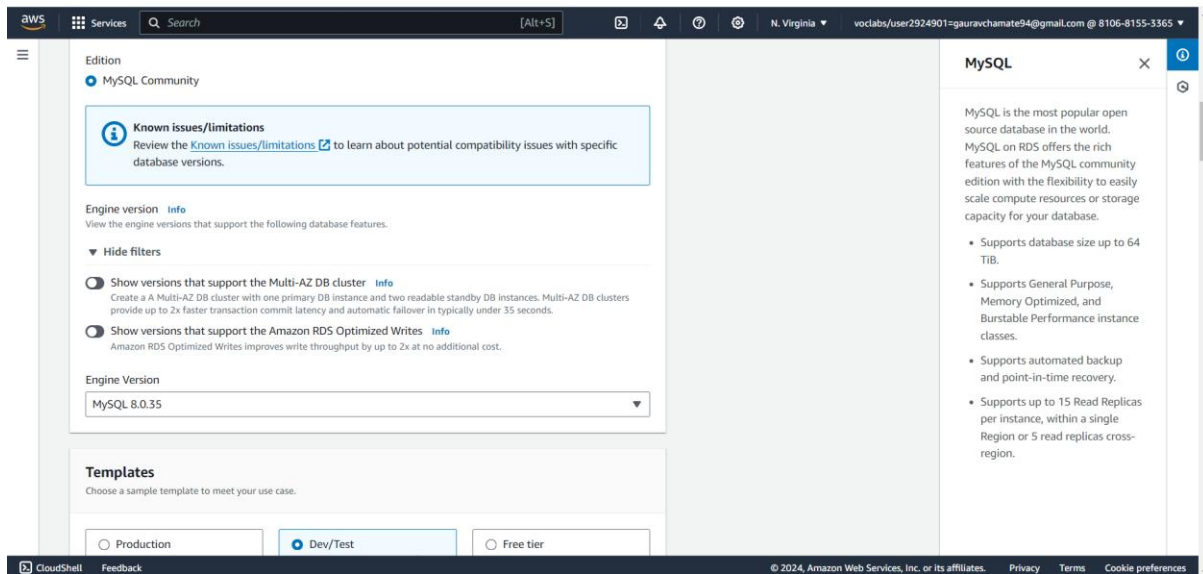
1. Create a MySQL RDS fully managed instance
2. Run sample queries (only for technical learners)
3. Understand the simplicity of database management on the cloud

A. Hands-on: Create the database

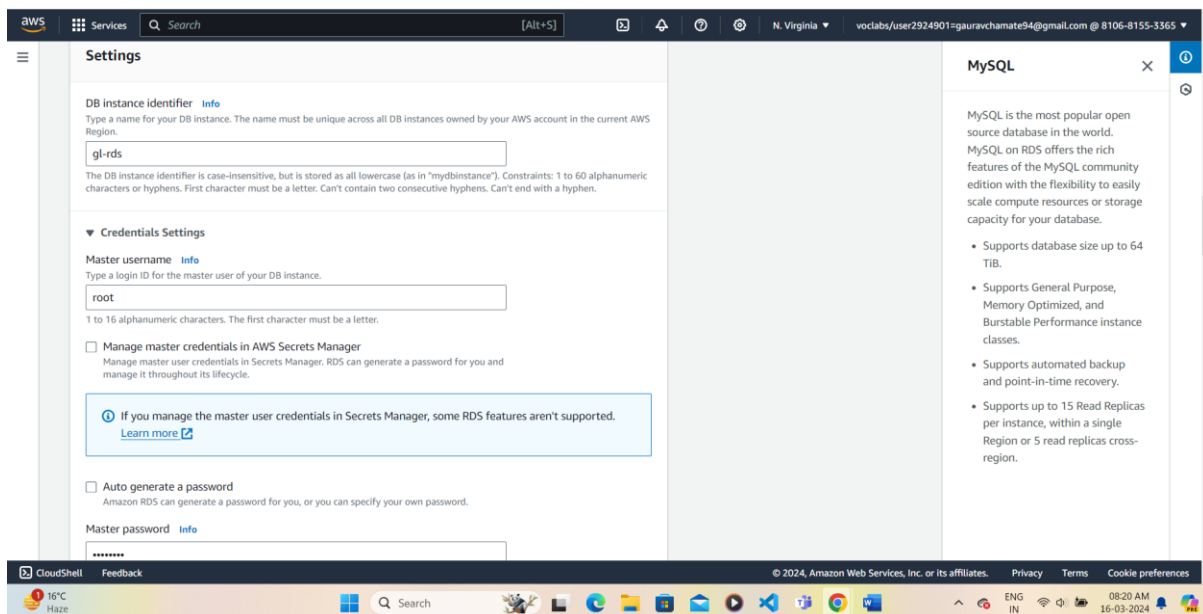
1. Go to the RDS management console at <https://console.aws.amazon.com/rds/> (you will be required to sign in)
2. Ensure the region is N Virginia
3. In the left navigation, under Amazon RDS, click Databases
4. Click on Create database button on the right top of the screen
5. Under the Choose a database creation method card select the Standard create radio button (should be selected by default)
6. Under the Engine options card select the radio button for MySQL



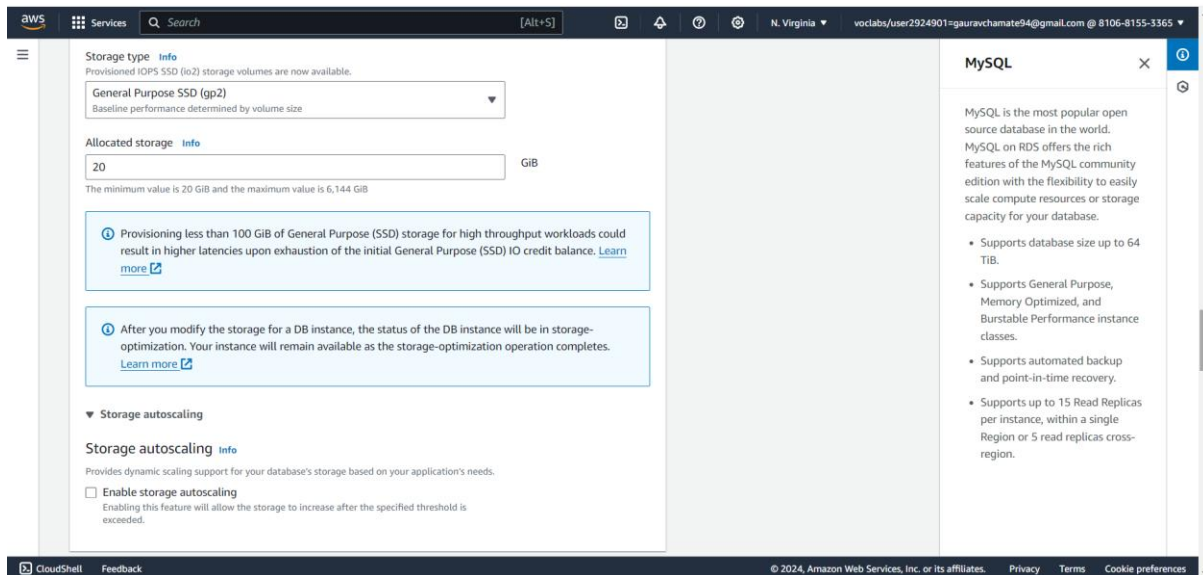
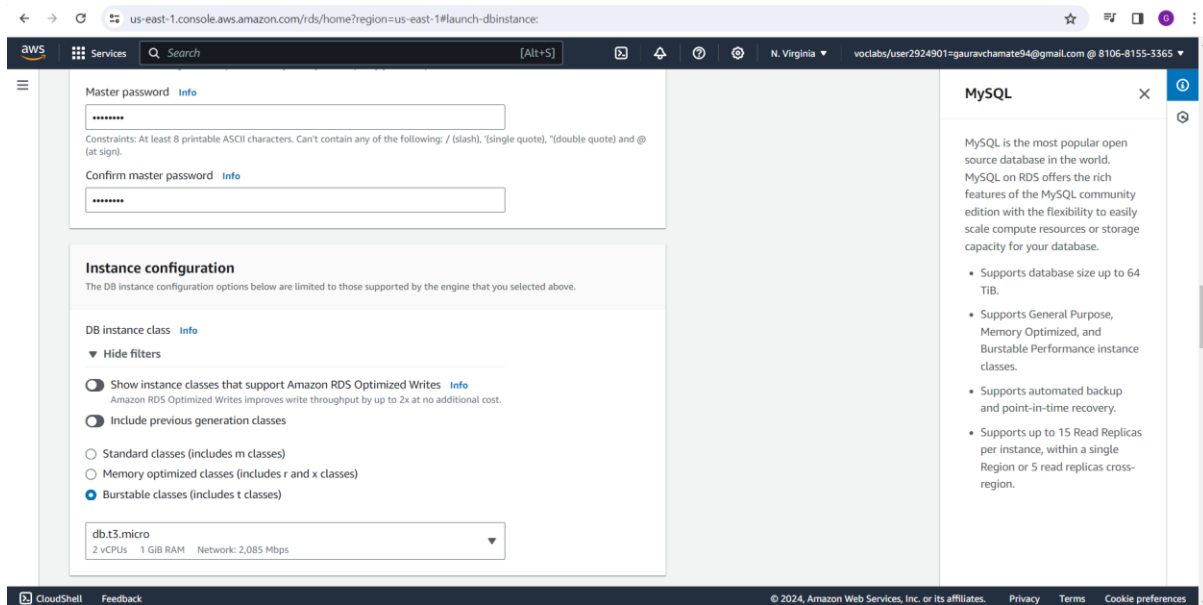
7. Under the Templates card click the Dev/Test radio button (Note - this is not production setting and is being selected for this exercise only)
8. Under the Availability & durability card ensure the radio for Single DB instance is selected



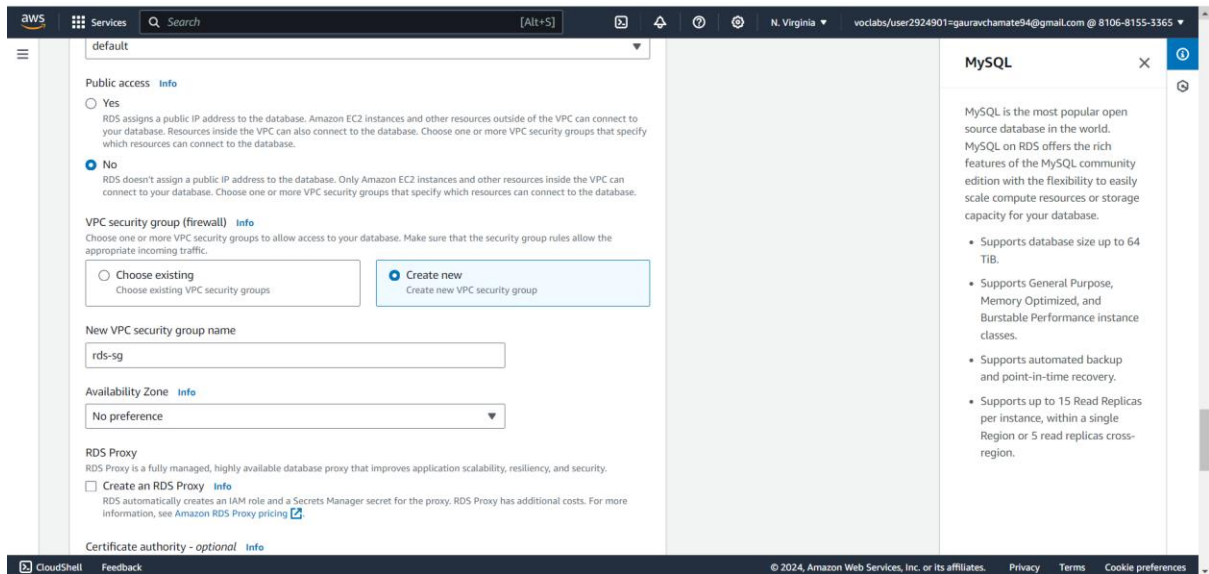
9. Under the Settings card make the following changes - a) For the DB instance identifier text field paste the following value - gl-rds



b) Expand the Credentials Settings section (if not already expanded) c) For the Master username text field paste the following value - root d) For both the Master password and Confirm password fields paste the following value (case matters) - password

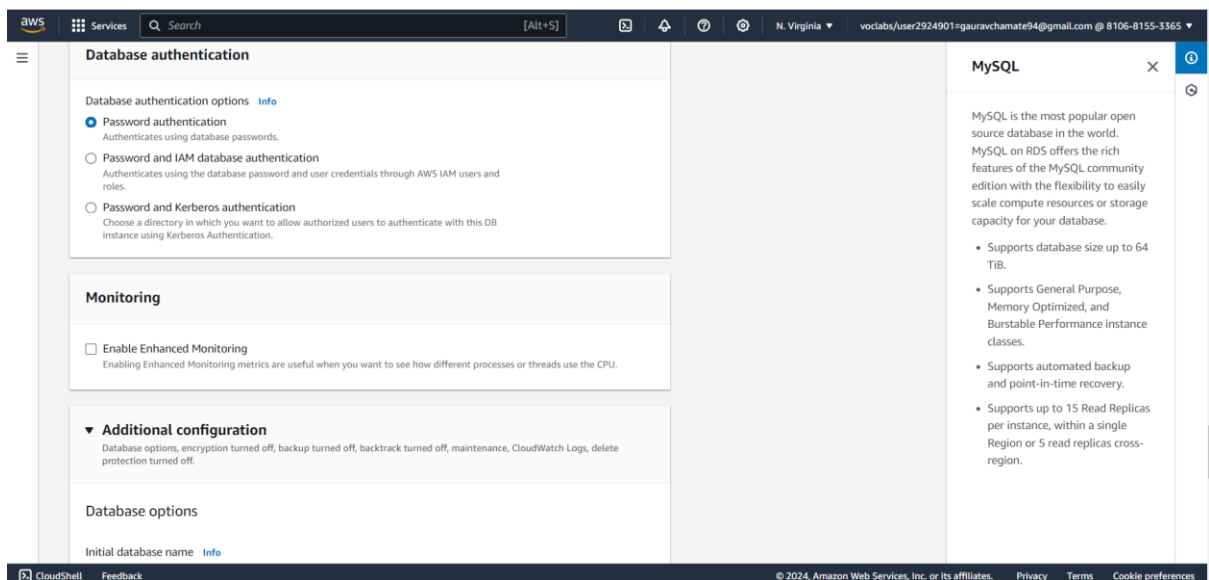


10. Under the Instance configuration card make the following changes - a) Select the radio button for Bustable classes (Includes t classes) b) Ensure in the dropdown (just below the above radio button) db.t3.micro is displayed/selected



11. Under the Storage card make the following changes - a) Select/confirm the Storage type to be General Purpose SSD (gp2) b) The Allocated storage should be changed to 20GiB c) Enable storage autoscaling checkbox should be unselected

12. Under the Connectivity card make the following changes - a) For the Public access radio ensure No is selected b) For the VPC security group select the Create new radio button c) For the New VPC security group name paste the following value - rds-sg



13. Under the Database authentication card ensure the radio button for Password authentication is selected (should be selected by default)

14. Under the Monitoring card ensure the Enable Enhanced Monitoring is unchecked

15. Expand the Additional configuration card (if not already) and make the following changes - a) For the Initial database name field paste the following value - PGP in Cloud Computing Try it out! V1.1 © Great Learning. All rights reserved. 4 employees b) The checkbox for Enable automated backups should be unchecked c) The checkbox for Enable encryption should be unchecked d) The checkbox for Enable auto minor version upgrade should be unchecked Note - The above values should be enabled for production database instances.

Database options

Initial database name [Info](#)
employees
If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group [Info](#)
default.mysql8.0

Option group [Info](#)
default:mysql-8-0

Backup

☐ Enable automated backups
Creates a point-in-time snapshot of your database.

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](#)

Log exports

Select the log types to publish to Amazon CloudWatch Logs

☐ Audit log

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

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

Maintenance

Auto minor version upgrade [Info](#)

☐ Enable auto minor version upgrade
Enabling auto minor version upgrade will automatically upgrade to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the database.

Maintenance window [Info](#)

Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.

☐ Choose a window
☒ No preference

Deletion protection

☐ Enable deletion protection
Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.

MySQL

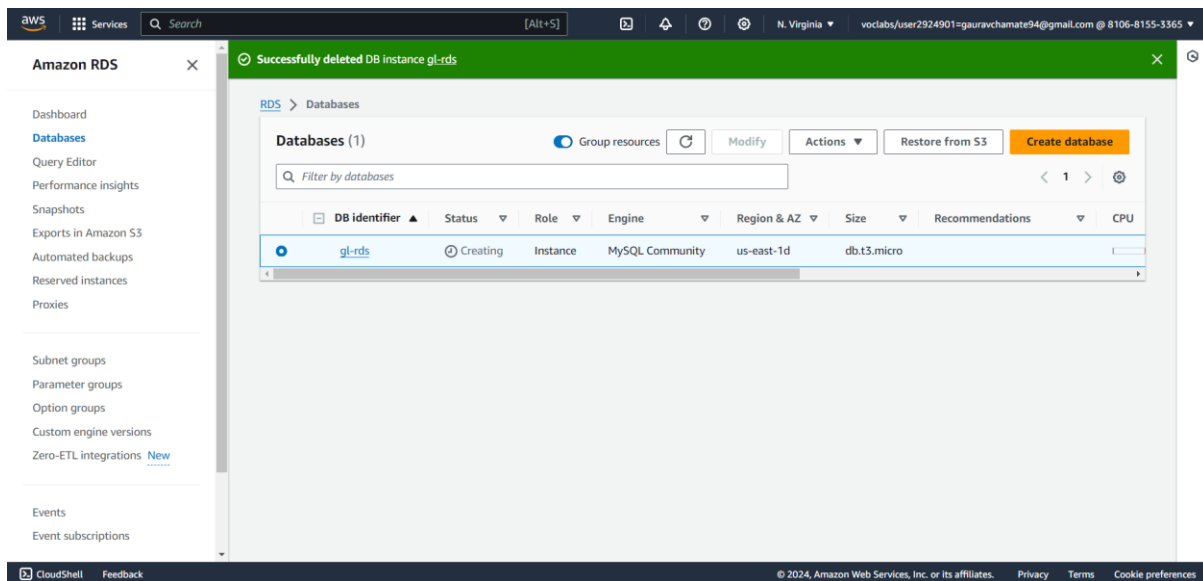
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16. Click on the Create database button (the database will take about 10 minutes to get created, can get done sooner). Refresh the database listing page after every 1 min to check if the process is complete (Status shows Available).

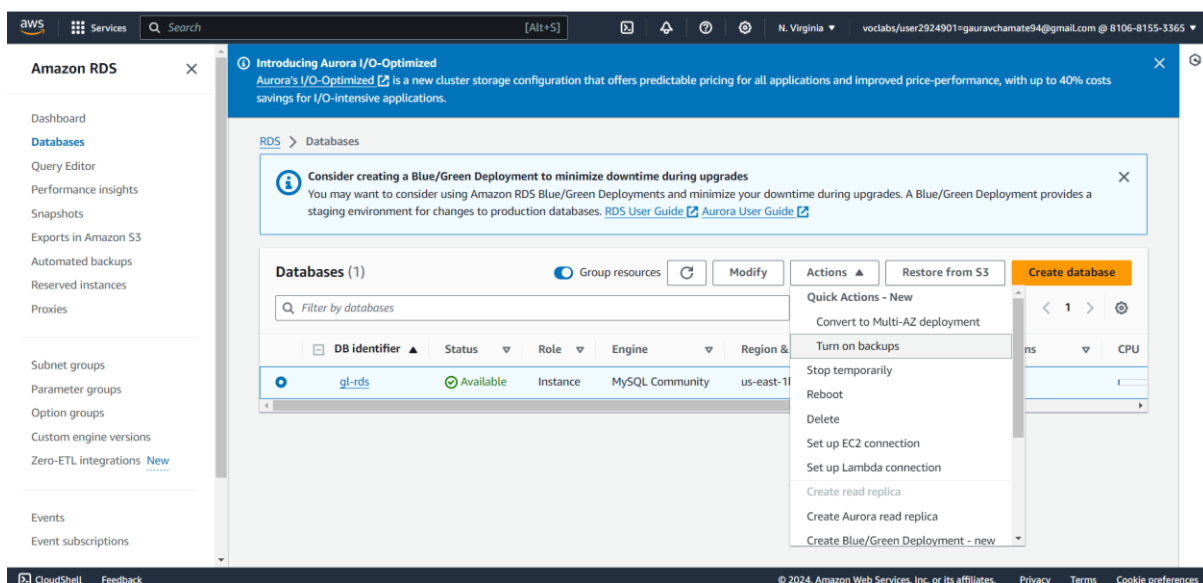
17. Do not proceed until you see the status is Available

18. Click on the DB Identifier (gl-rds) link and copy the Endpoint (looks like gl-rds.somecharacters.us-east-1.rds.amazonaws.com) under Endpoint & Port in a text editor in your laptop



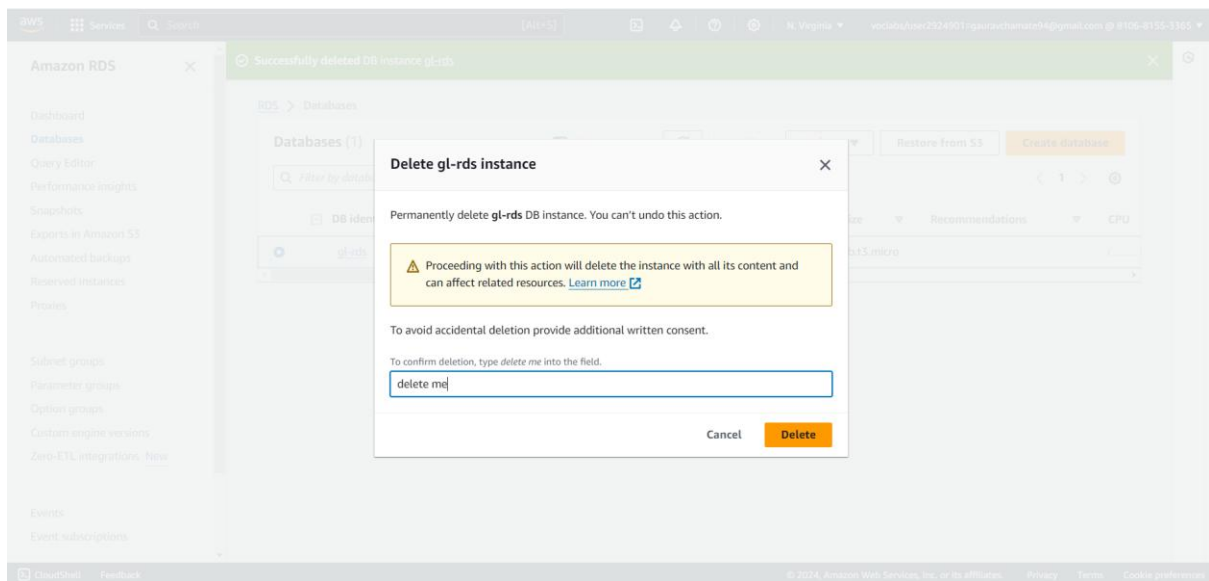
C. Hands-On: Cleaning up!

1. Go back to the RDS management console PGP in Cloud Computing Try it out! V1.1 © Great Learning. All rights reserved. 6
2. In the left navigation, under Amazon RDS, click Databases
3. Click on the radio button to the left of the DB identifier gl-rds
4. Click on the Actions dropdown (top right side of the screen) and select Delete
5. Unselect the Create final snapshot checkbox

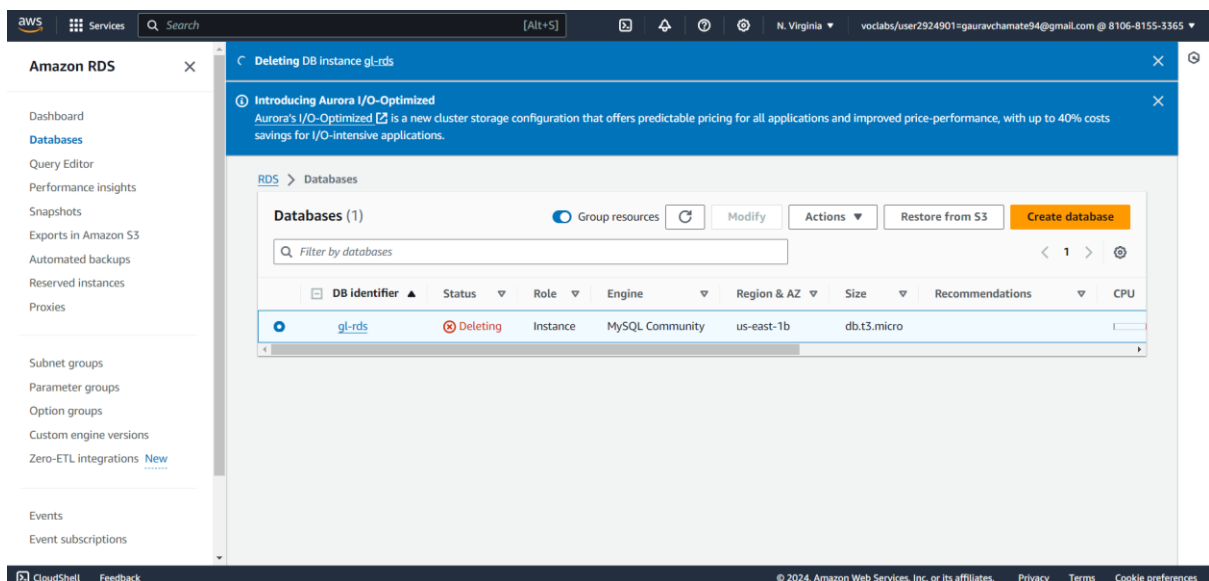


6. Check the "I acknowledge that upon instance" message checkbox

7. Paste the following text in the text field titled “To confirm deletion, type delete me into the field” (case matters) delete me



8. Click on the Delete button



9. The delete process will take about 10 mins (can get done sooner). Refresh the database listing page after every 1 min to check if the process is complete (there will not be any database listed).

aws

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Successfully deleted DB instance gl-rds

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Aurora's I/O-Optimized is a new cluster storage configuration that offers predictable pricing for all applications and improved price-performance, with up to 40% costs savings for I/O-intensive applications.

RDS > Databases

Databases (0)

☒ Group resources

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Actions

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DB identifier

Status

Role

Engine

Region & AZ

Size

Recommendations

CPU

Current act

No instances found

CloudShell

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