

Managed Services on AWS - Hands on Submission - Project 1

□ CloudWithAWS-TIO-20

Try it out objective

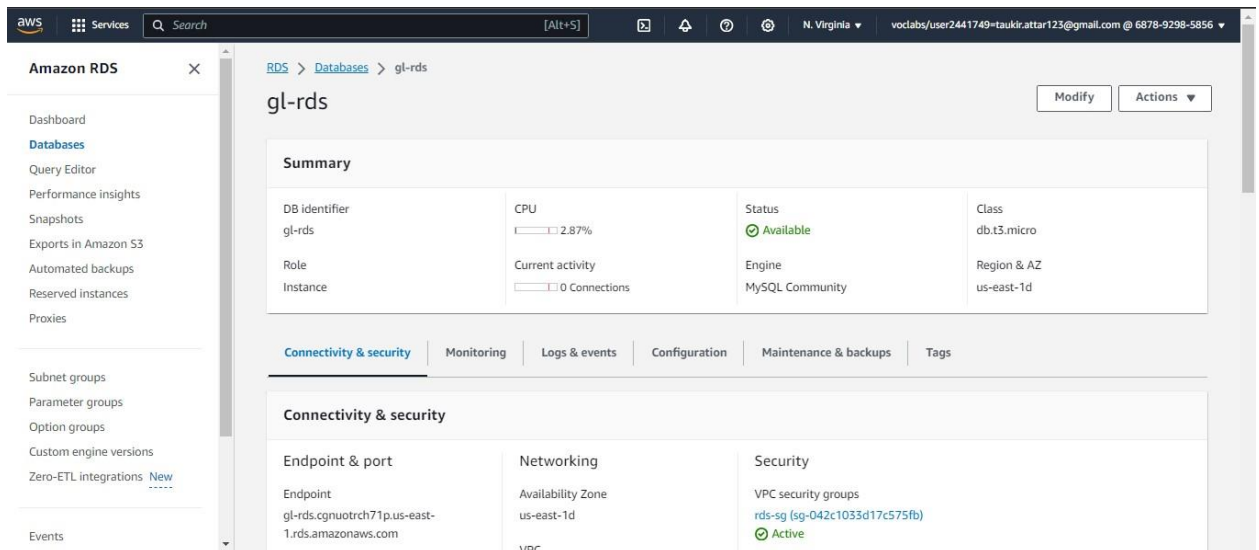
Use this hands-on to get started with managed relational database service - RDS.

The goal

The following are the goals of this hands-on:

1. Create a MySQL RDS fully managed instance
2. Understand the simplicity of database management on the cloud

A. Hands-on: Create the database



Amazon RDS console showing configuration details for a database instance.

Subnets

- subnet-058e557c85d035305
- subnet-0525195152828b84f
- subnet-037b064f6cad9051e
- subnet-0558a0d77b6852ee2
- subnet-0d15494de1bf56e7e
- subnet-0ad6b5274a5349021

Network type
IPv4

Certificate authority date
August 22, 2024, 22:38 (UTC+05:30)

DB instance certificate expiration date
August 22, 2024, 22:38 (UTC+05:30)

Security group rules (2)

Security group	Type	Rule
rdc-sg-fgo-042c1033d17c575fb	ICDR/IP - Inbound	105.97.104.3/32
rdc-sg-fgo-042c1033d17c575fb	ICDR/IP - Outbound	0.0.0.0/0

Replication (1)

DB identifier	Role	Region & AZ	Replication source	Replication state	Lag
gl-rds	Instance	us-east-1d	-	-	-

Configuration

Amazon RDS console showing configuration details for the **gl-rds** instance.

Summary

DB identifier	CPU	Status	Class
gl-rds	2.87%	Available	db.t3.micro

Role
Instance

Current activity
0 Connections

Engine
MySQL Community

Region & AZ
us-east-1d

Configuration

Configuration	Instance class	Storage	Performance Insights
DB instance ID: gl-rds Engine version: 8.0.33 DB name: employees License model: ...	Instance class: db.t3.micro vCPU: 2 RAM: 1 GB Availability: ...	Encryption: Not enabled Storage type: General Purpose SSD (gp2) Storage: 200 GiB Provisioned IOPS: ...	Performance Insights enabled Turned off

Amazon RDS console showing instance details for `employees`.

Engine version	vCPU	Storage type
8.0.33	2	General Purpose SSD (gp2)
DB name	RAM	Storage
employees	1 GB	200 GiB
License model	Availability	Provisioned IOPS
General Public License	Master username: root	-
Option groups	Master password: *****	Storage throughput
default:mysql-8.0 In sync	IAM DB authentication: Not enabled	-
Amazon Resource Name (ARN)	Multi-AZ: No	Storage autoscaling
arn:aws:rds:us-east-1:687892985856:db:gl-rds	Secondary Zone: -	Disabled
Resource ID		
db-zp2ta4emn765kb7hzzzfvqirre		
Created time		
October 02, 2023, 17:10 (UTC+05:30)		
DB instance parameter group		
default:mysql8.0 In sync		
Deletion protection		
Disabled		

Recommendations (4)

Filter by recommendations

Dismiss Schedule Apply now

Monitoring

Amazon RDS console showing the **Monitoring** tab for the `employees` instance.

New monitoring view is available
RDS now supports a new monitoring view which includes Performance Insights and CloudWatch metrics. To access the new monitoring view, select **Modify** to modify your database and turn on Performance Insights.

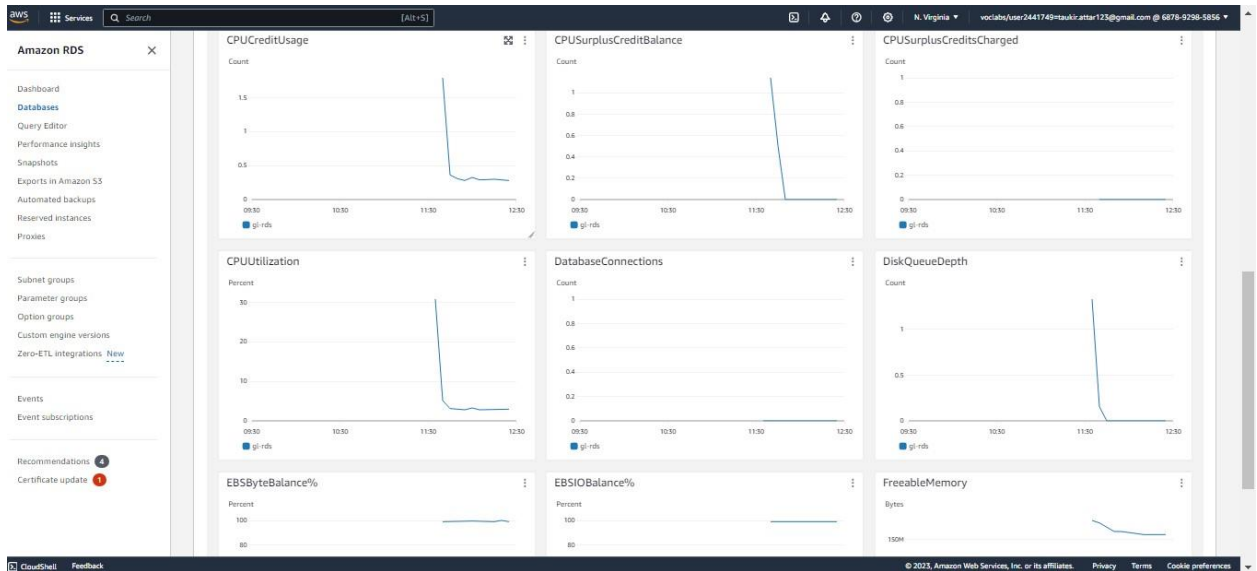
CloudWatch (24)

Search by metric

Period: 5 minutes | Add instance to compare | Monitoring

1h 3h 12h 1d 3d 1w Custom UTC timezone

Metric	Unit	Approximate Value (at 12:00)
BinLogDiskUsage	Bytes	0.8
BurstBalance	Percent	80
CPUCreditBalance	Count	5
CPUCreditUsage	Count	1
CPUSurplusCreditBalance	Count	1
CPUSurplusCreditsCharged	Count	1



1. In the above screen shot I have created database.
2. The region is N Virginia.
3. In database creation card selected standard create.
4. In engine option card selected My SQL.
5. Templates card click the Dev/Test
6. In Settings card selected DB instance identifier text field gl-rds
7. In the Credentials Settings section, the Master username is root
8. Master password and Confirm password is password.
9. Then selected Bustable classes and db.t3.micro I have selected
10. Under the Storage card the storage type is GeneralPurposeSSD(gp2)
11. Enable storage auto scaling
12. In availability & durability card stand by instance is not created
13. For the New VPC security group name is rds-sg
14. For the Initial data base name field employees
15. Enable automated backups
16. Enable encryption
17. Enable enhanced monitoring
18. Enable auto minor version upgrade

B. Hands-On: Cleaning up!

Delete gl-rds instance?

Are you sure you want to Delete the **gl-rds** DB Instance?

☒ **Create final snapshot**
Determines whether a final DB Snapshot is created before the DB instance is deleted.

Final snapshot name
Determines whether to retain automated backups after deletion.

gl-rds-snapshot

To confirm deletion, type *delete me* into the field.

delete me

Cancel Delete

RDS > Databases

Consider creating a Blue/Green Deployment to minimize downtime during upgrades

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

Databases (0)

Group resources

Modify

Actions

Restore from S3

Create database

Filter by databases

< 1 >

DB identifier

Status

Role

Engine

Region & AZ

Size

Actions

CPU

Current activity

Maintenance

No instances found

1. In RDS management console under Amazon RDS click Databases
2. DB identifier gl-rds on delete option enter delete me

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