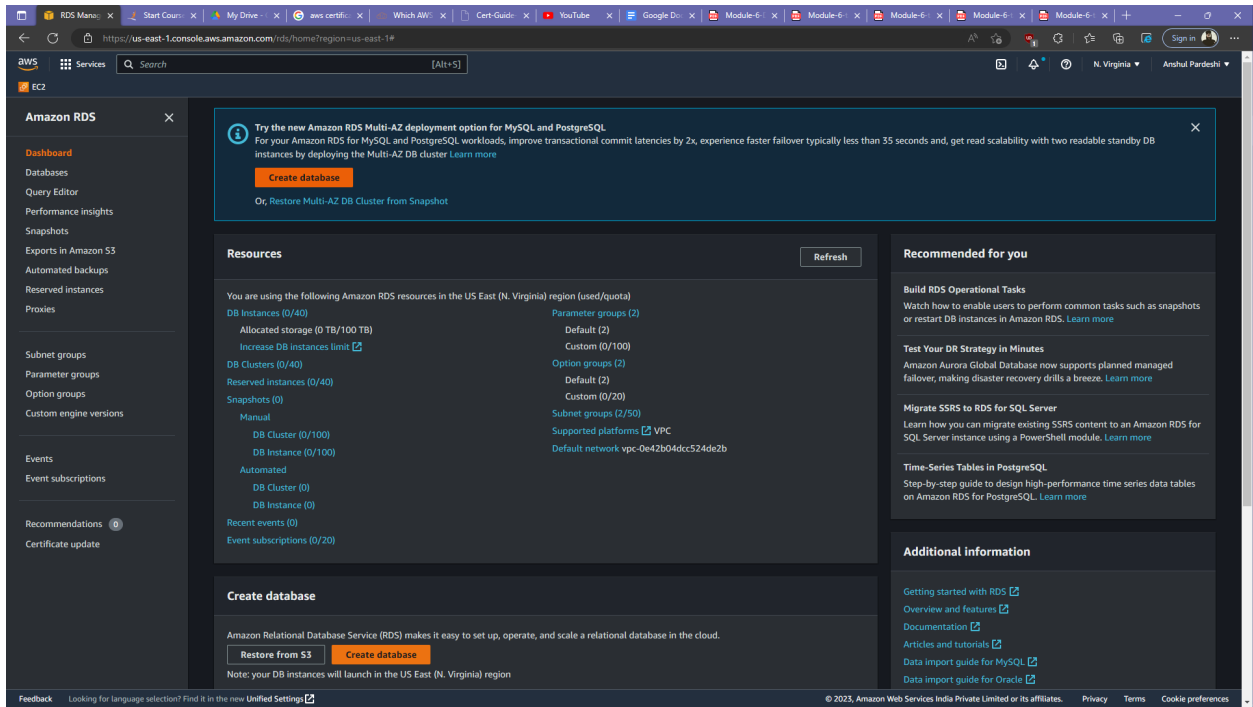


# Module-6: Database Services Assignment - 2

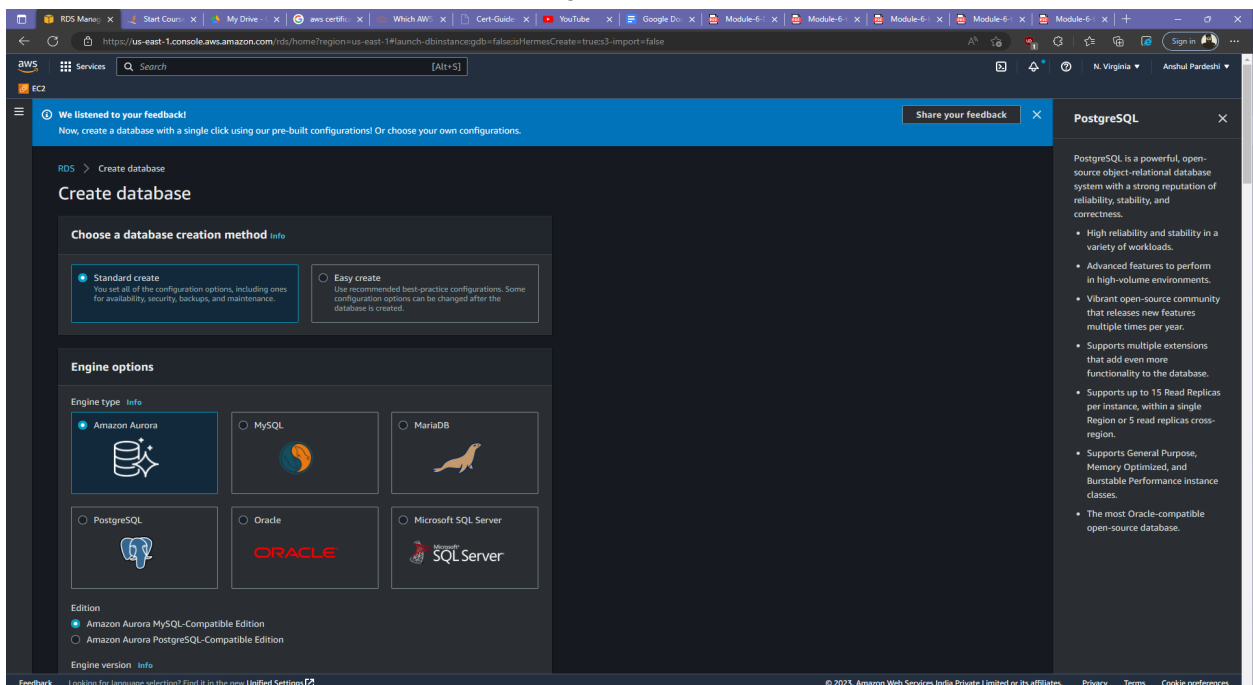
You have been asked to:

1. Create an Amazon Aurora database with 2 Read Replicas.

Create a database first by clicking on create database from RDS dashboard.



Let's use Easy Create for this case.



## Select Amazon Aurora arguably best database.

Engine type **Info**

- ☒ Amazon Aurora
- ☐ MySQL
- ☐ MariaDB
- ☐ PostgreSQL
- ☐ Oracle
- ☐ Microsoft SQL Server

Edition

- ☒ Amazon Aurora with MySQL compatibility
- ☐ Amazon Aurora with PostgreSQL compatibility

DB instance size

- ☐ Production
  - db.r6g.2xlarge
    - 8 vCPUs
    - 64 GB RAM
    - 2.07k USD/hour
- ☒ Dev/Test
  - db.r6g.large
    - 2 vCPUs
    - 16 GB RAM
    - 0.26k USD/hour

DB cluster identifier

Enter 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.

database-1

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.

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.

☒ Auto generate a password

Amazon RDS can generate a password for you, or you can specify your own password.

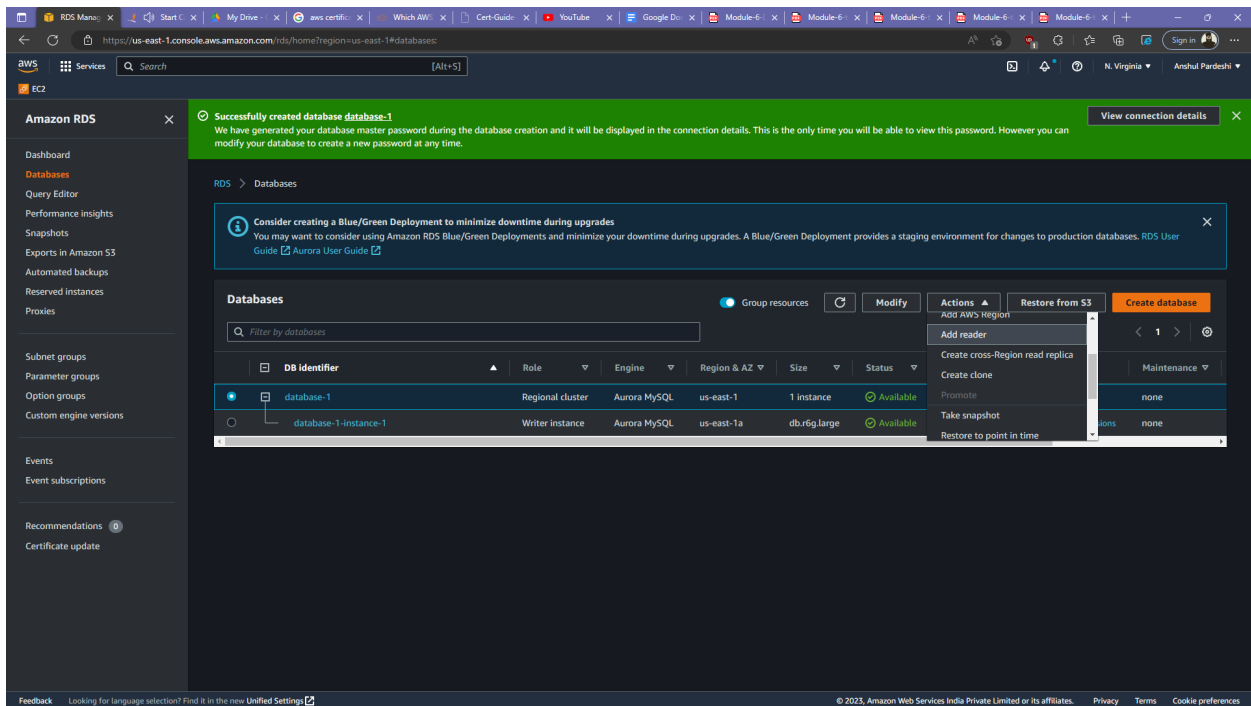
DB engine versions

The following DB engine versions are supported for these database features:

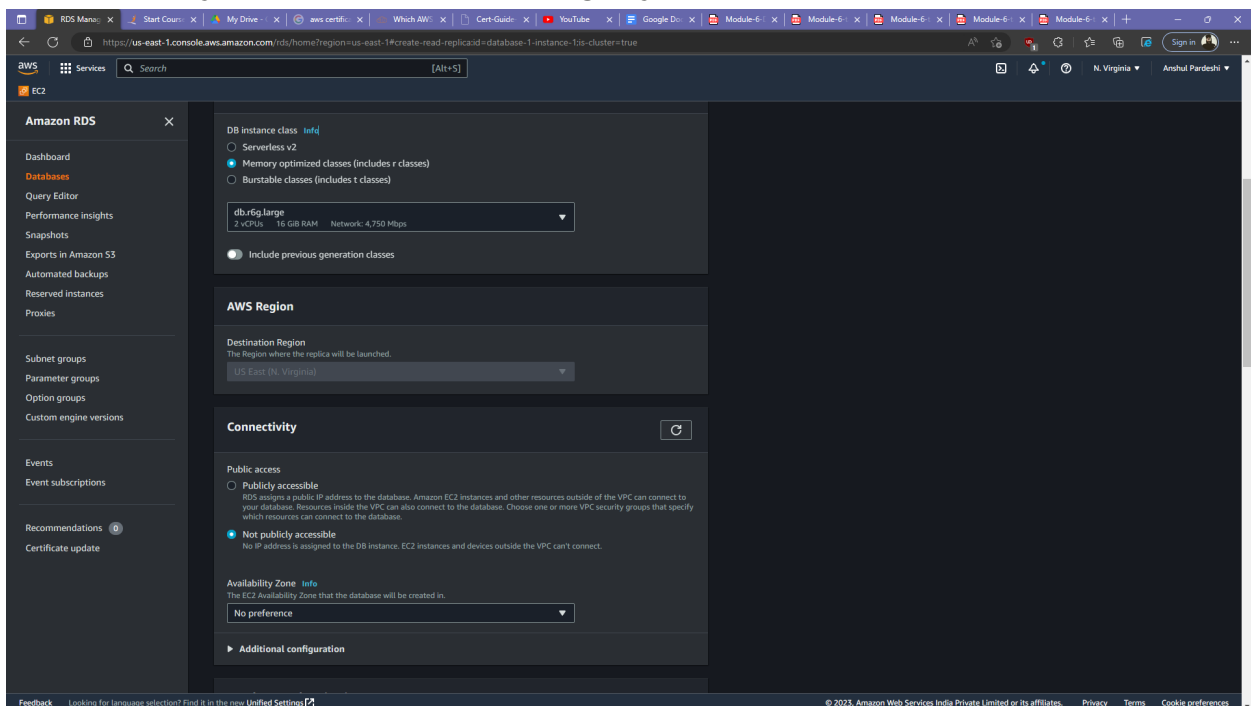
**Provisioned: single-master**

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Select the database and go to the actions dropdown menu. You will find 2 options. Add reader will create read replica in same region. You can go with creating a cross region read replica if you want it in another region.



Choose the DB instance class that you want of the replica and if you want it to be publicly accessed or not according to your use case. Then create a reader.



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Database authentication

Database authentication options

Password authentication

Authenticates using database passwords.

Password and IAM database authentication

Authenticates using the database password and user credentials through AWS IAM users and roles.

Additional configuration

encryption turned on, failover, Performance Insights turned on, Enhanced Monitoring turned off, maintenance, CloudWatch Logs

DB parameter group

default:aurora-mysql8.0

Failover priority

No preference

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.

AWS KMS key

Enter a key ARN

Amazon Resource Name (ARN)

arn:aws:kms:us-east-1:994272653862:key/f4f0c0f1-6636-4bd0-8929-622b18dca5e5

Example: arn:aws:kms:<region>:<accountID>:key/<key-id>

Account

994272653862

KMS key ID

f4f0c0f1-6636-4bd0-8929-622b18dca5e5

Feedback

Looking for language selection? Find it in the new Unified Settings

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Performance Insights

Enabling Performance Insights will automatically enable the Aurora MySQL performance schema.

Learn more

Turn on Performance Insights

Retention period

7 days (free tier)

AWS KMS key

(default) aws/rds

Account

994272653862

KMS key ID

f4f0c0f1-6636-4bd0-8929-622b18dca5e5

You can't change the KMS key after enabling Performance Insights.

Monitoring

Enable Enhanced monitoring

Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.

Maintenance

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.

Cancel

Add reader

Feedback

Looking for language selection? Find it in the new Unified Settings

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Wait till the read replica is created; it may take some time.

The screenshot shows the Amazon RDS console interface. At the top, a blue banner indicates "Creating replica for assignment in US East (N. Virginia). Your database might take a few minutes to launch." Below this, a green banner states "Successfully created database database-1" and provides instructions on viewing the connection details. The main content area shows the "Databases" list with the following data:

DB identifier	Role	Engine	Region & AZ	Size	Status	CPU	Current activity	Maintenance
database-1	Regional cluster	Aurora MySQL	us-east-1	2 instances	Available	-	-	none
database-1-instance-1	Writer instance	Aurora MySQL	us-east-1a	db.r6g.large	Available	9.53%	0.00 sessions	none
for-assignment	Reader instance	Aurora MySQL	-	db.r6g.large	Creating	-	-	none

Read replica has been created.

The screenshot shows the Amazon RDS console interface after the read replica has been created. The "Databases" list now includes the "for-assignment" instance with a status of "Available". The CPU usage for the writer instance is 7.65% and for the reader instance is 7.69%. The current activity for both instances is 0.00 sessions.

DB identifier	Role	Engine	Region & AZ	Size	Status	CPU	Current activity	Maintenance
database-1	Regional cluster	Aurora MySQL	us-east-1	2 instances	Available	-	-	none
database-1-instance-1	Writer instance	Aurora MySQL	us-east-1a	db.r6g.large	Available	7.65%	0.00 sessions	none
for-assignment	Reader instance	Aurora MySQL	us-east-1b	db.r6g.large	Available	7.69%	0.00 sessions	none