

Lesson 06 Demo 04

Creating a RDS MySQL Database

Objective: To demonstrate the process of creating an Amazon RDS MySQL database using the AWS Management Console

Tools required: AWS WorkSpaces

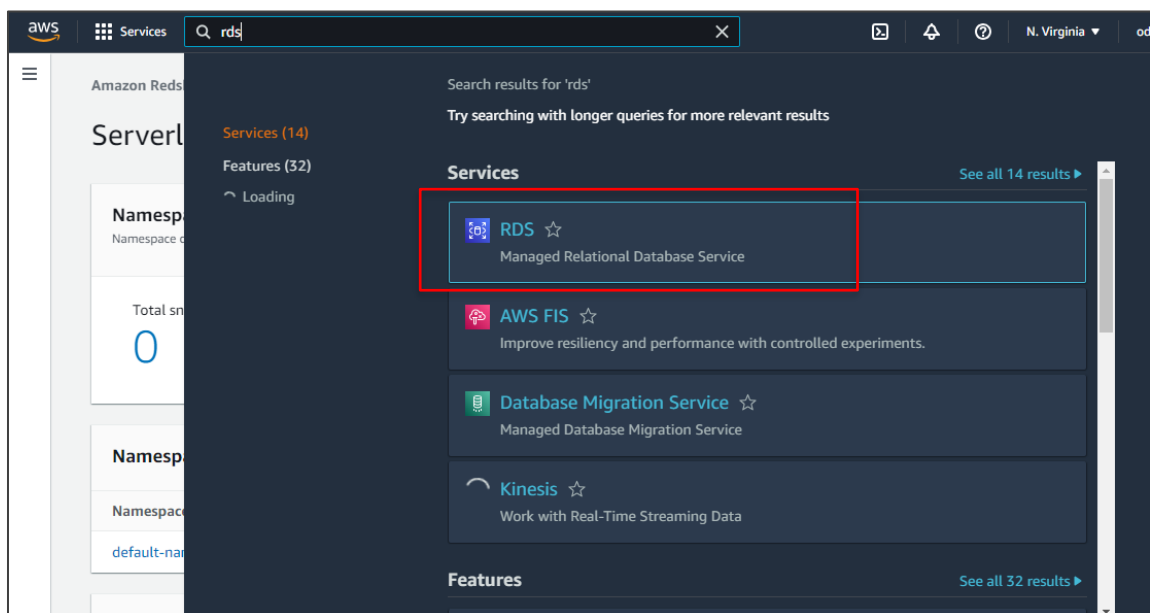
Prerequisites: AWS account

Steps to be followed:

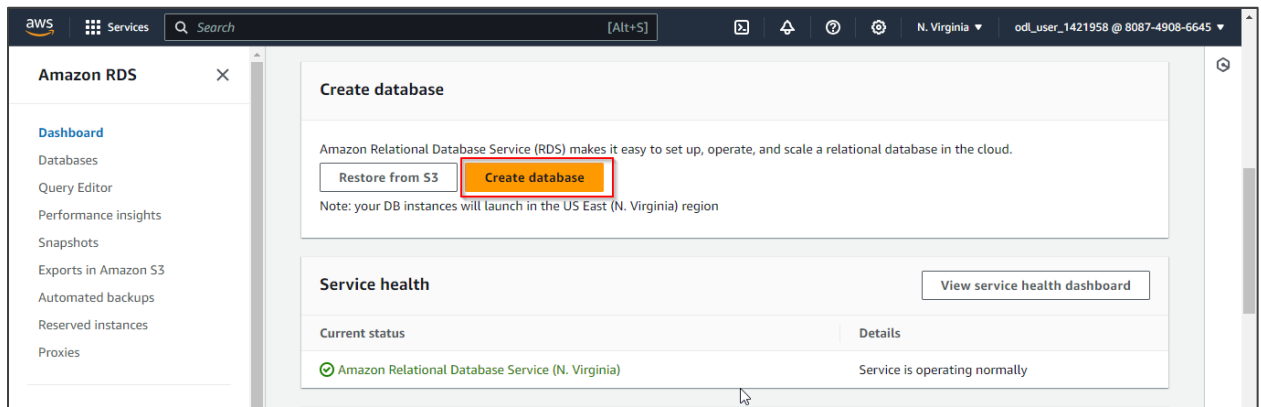
1. Create a RDS database

Step 1: Create a RDS database

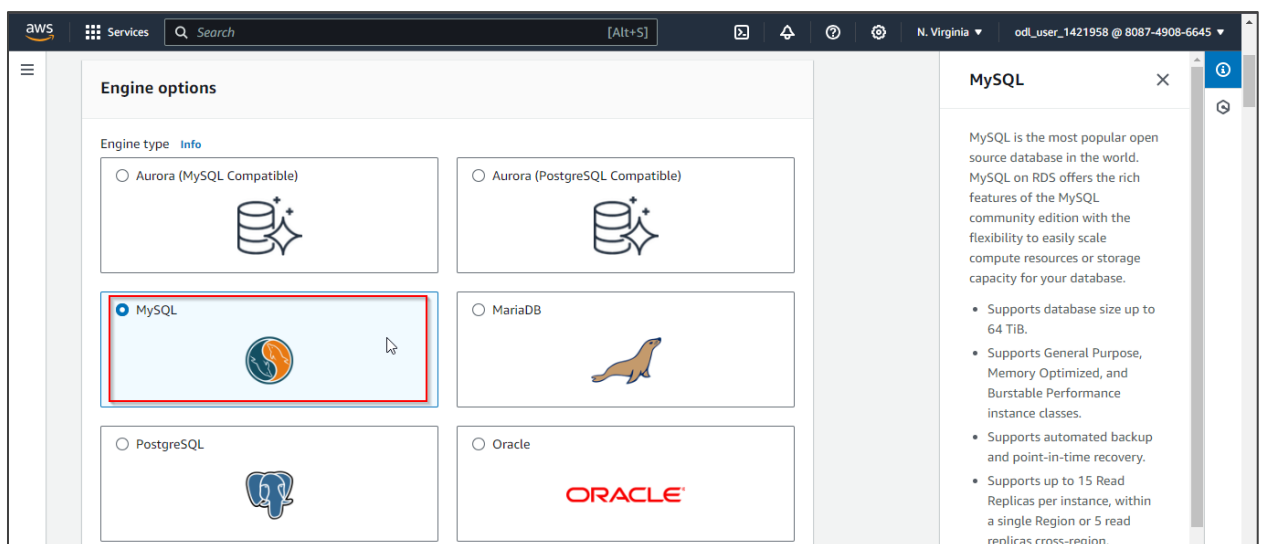
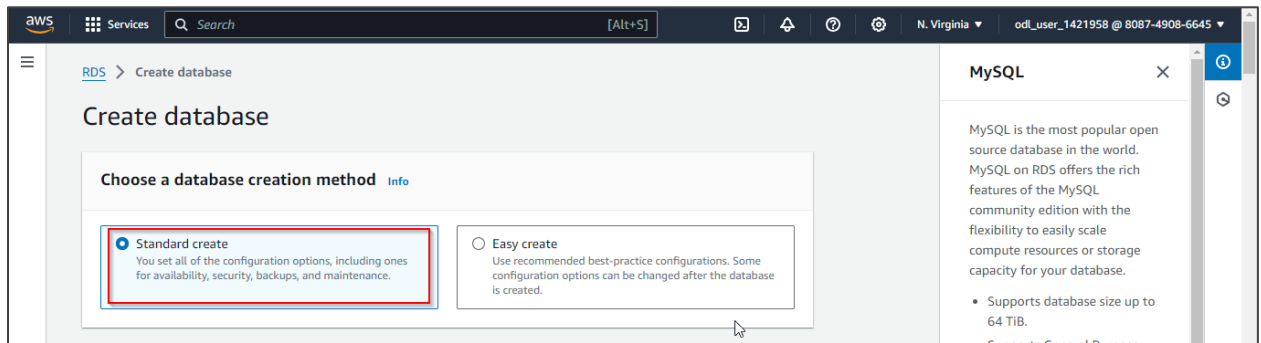
1.1 In the console navigation pane, search for **rds** and select **RDS**



1.2 Click on Create database



1.3 Choose Standard create as the database creation method and MySQL as the Engine option



1.4 Choose the **Free tier** under the **Templates** section

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.

☒ **Free tier**
Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.
[Info](#)

1.5 Enter the **Master username** as **awsuser** and select **Auto generate a password**

Settings

DB instance identifier [Info](#)
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.
database-1

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). 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.
awsuser

1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management
You can use AWS Secrets Manager or manage your master user credentials.

☐ **Managed in AWS Secrets Manager - most secure**
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

☒ **Self managed**
Create your own password or have RDS create a password that you manage.

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

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.

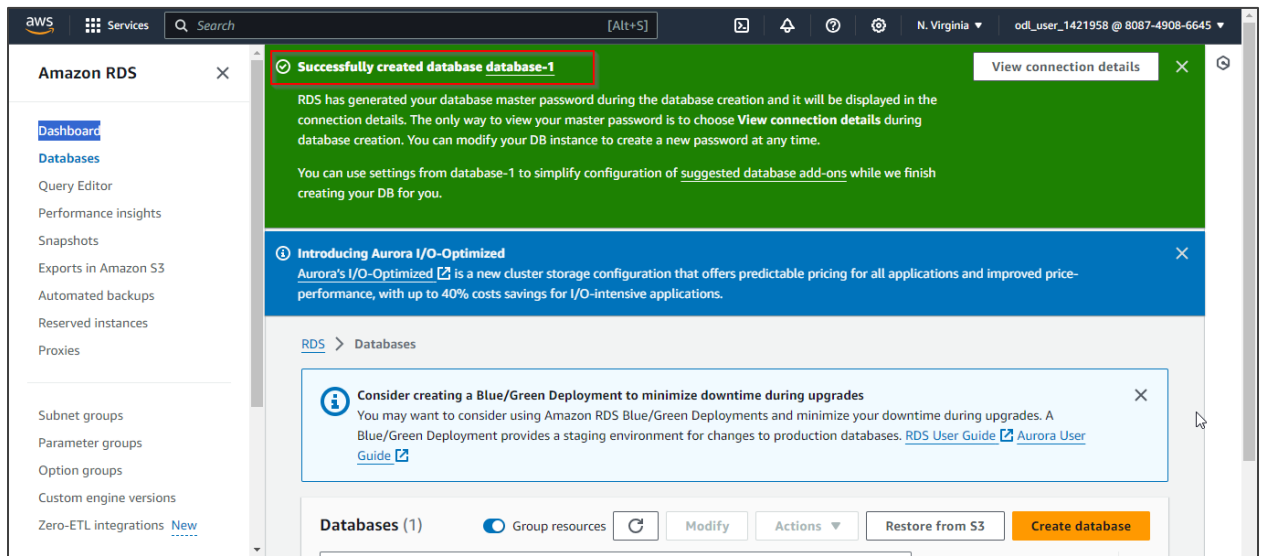
- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

1.6 Choose **us-east-1a** as the **Availability Zone**

The screenshot shows the AWS console interface for configuring a VPC security group. The 'Availability Zone' dropdown menu is highlighted with a red box, showing 'us-east-1a' as the selected option. Other visible options include 'Choose existing' and 'Create new' for the security group, and 'Create an RDS Proxy'.

1.7 Click the **Create database** button

The screenshot shows the AWS console interface for the 'Estimated monthly costs' section. The 'Create database' button is highlighted with a red box. The page displays information about the Amazon RDS Free Tier, including a list of resources available for free (750 hrs of Amazon RDS, 20 GB of General Purpose Storage, and 20 GB for automated backup storage) and a link to learn more about the AWS Free Tier.



The database has been created successfully.

By following these steps, you have successfully established an RDS instance using the MySQL engine to utilize the database for various applications and data management purposes.