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Amazon RDS \xe2\x80\x93 Creating an Amazon RDS DB Instance

- Last Updated :\n01 May, 2021

Amazon Relational Database Service (Amazon RDS) is a relational database that is easier to set up, operate, and scale in the Cloud. It is cost-efficient, have resizable capacity for relational database and manages common database administration tasks. DB instance is the basic building block of Amazon RDS where we create our own databases. A DB instance is an isolated database environment in the AWS Cloud. Multiple user-created databases can be stored in a single DB instance. We can create and modify the DB instance by using the AWS CLI (Command Line Interface) , the Amazon RDS API, or the AWS Management Console.

Each DB instance requires a DB engine. Amazon RDS currently supports 5 engines which are MySQL, MariaDB, PostgreSQL, Oracle, and Microsoft SQL Server DB engines. Each DB engine has its own supported features and properties. Additionally, each DB engine has a set of parameters in a DB parameter group that control the behavior of the databases that it manages.
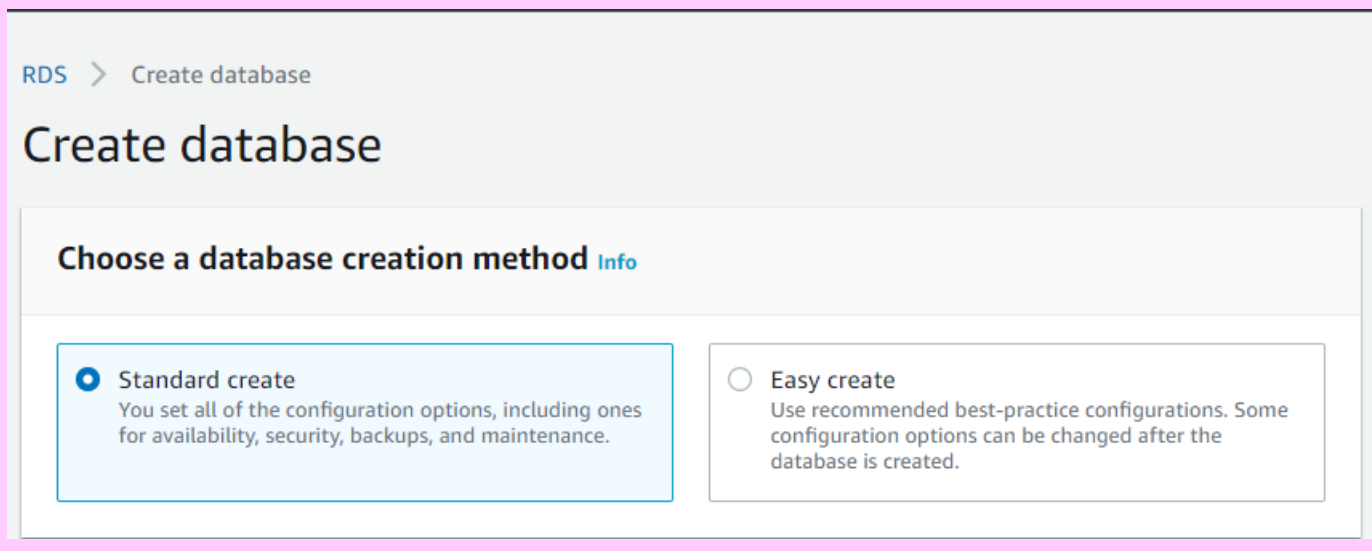
Steps to Create a Amazon RDS DB instance

AWS Console: Login into Amazon AWS Console and navigate to RDS Dashboard. Click on *create database* to create a database. See below image.
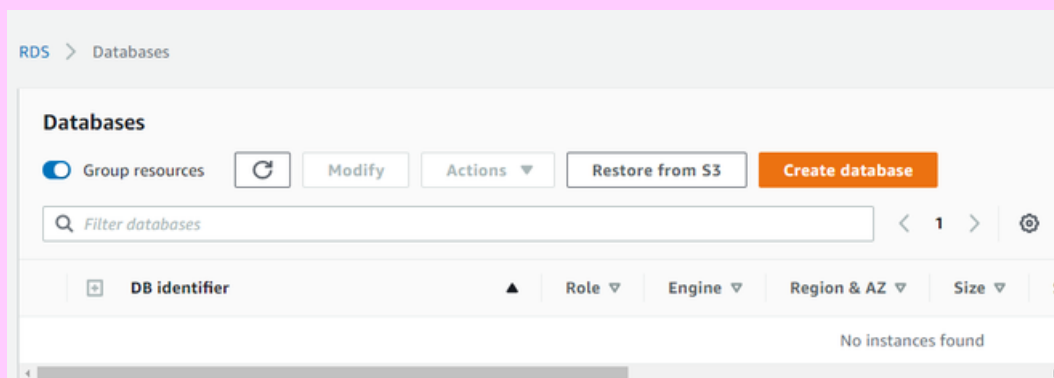
Creating Amazon RDS DB Instance :

- Chose the standard database creation method.

Creation Method

- Select any one of the given engine types. In this case we will select *MySQL* engine.

Engine options

Engine type **Info**

| ○ Amazon Aurora | ● MySQL | ○ PostgreSQL |

| ○ Oracle | ○ Microsoft SQL Server |

- Select the version of the MySQL that you want to use.

Edition
● MySQL Community

ⓘ **Known issues/limitations**
Review the Known issues/limitations ↗ to learn about potential compatibility issues with specific database versions.

Version
MySQL 8.0.20 ▼

Version of DB Engine

- Under templates section, we have three options :
  - Production
  - Dev/Test
  - Free Tier

Templates
Choose a sample template to meet your use case.

| ○ Production | ○ Dev/Test | ● Free tier |
| Use defaults for high availability and fast, consistent performance. | This instance is intended for development use outside of a production environment. | Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. **Info** |

Template Types

We will opt for free tier.

- Under the settings section of the database, provide instance name, say, geeksDemo and provide master username as admin and a password of your choice.

Settings

- Select DB instance according to your needs. In free tier, by default, db.t2.micro will be chosen.

DB Instance

- Rest leave everything as default, and click on create databases. See below images:

Estimated monthly costs

The Amazon RDS Free Tier is available to you for 12 months. Each calendar month, the free tier will allow you to use the Amazon RDS resources listed below for free:

- 750 hrs of Amazon RDS in a Single-AZ db.t2.micro Instance.
- 20 GB of General Purpose Storage (SSD).
- 20 GB for automated backup storage and any user-initiated DB Snapshots.

Learn more about AWS Free Tier. ↗

When your free usage expires or if your application use exceeds the free usage tiers, you simply pay standard, pay-as-you-go service rates as described in the Amazon RDS Pricing page. ↗

ⓘ You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.

Cancel   **Create database**

⊘ **Successfully created database geeksdemo**

RDS ❯ Databases

Databases   🔵 Group resources   ⟳   Modify   Act

🔍 *Filter databases*

⊞	DB identifier ▲	Role ▽	Engine ▽
○	geeksdemo	Instance	MySQL Community

In the above image, we see that a MySQL database named geeksdemo has been created.\xc2\xa0

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