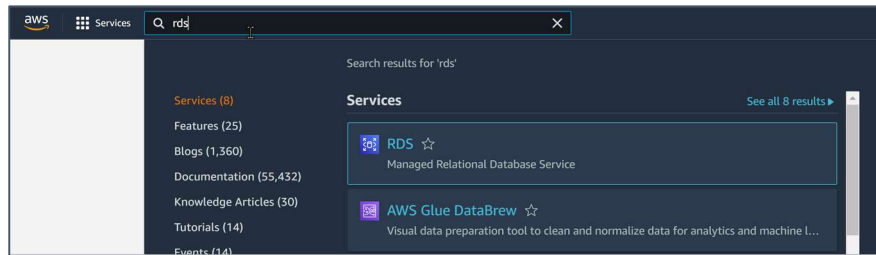
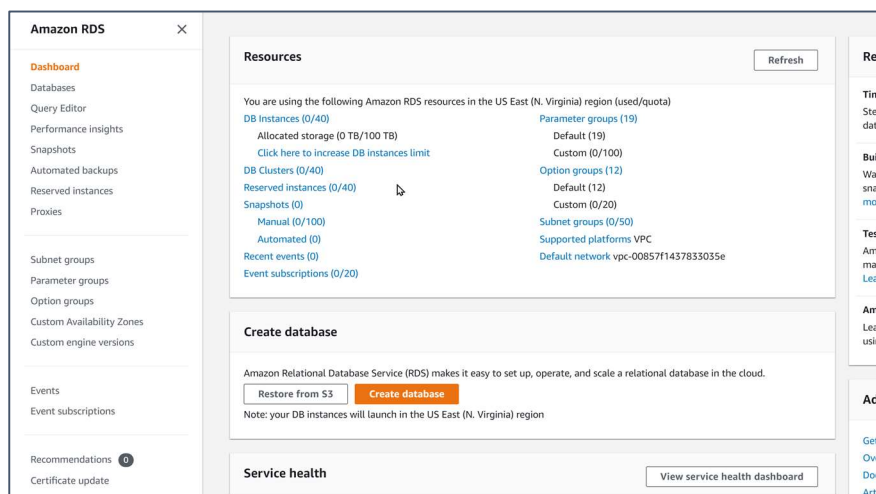


AWS RDS configuration.

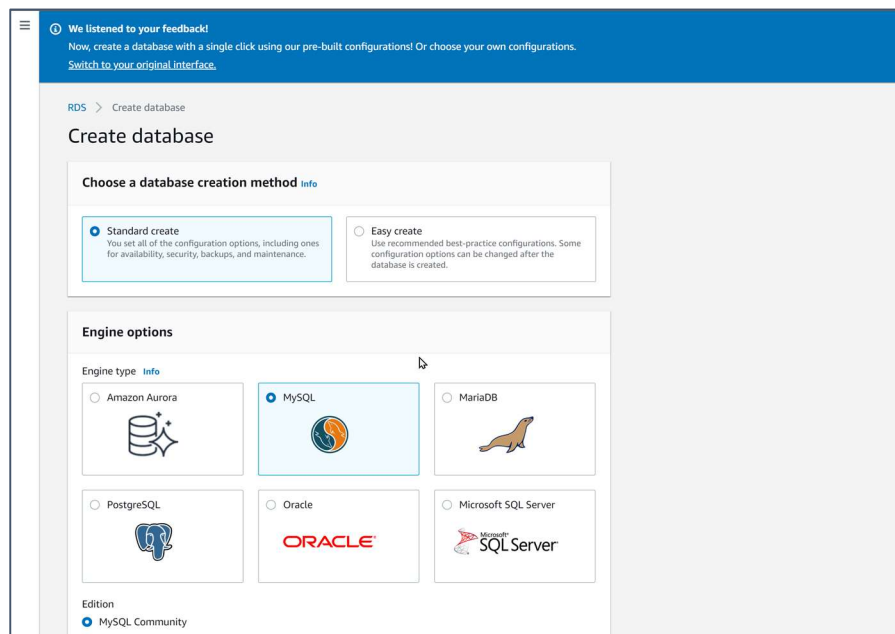
On the AWS Homepage, search for RDS and navigate to it



On the RDS Page, click on Create database



Use “Standard create” option and MySQL as the database.



Select the appropriate version of **MySQL** and the **Free tier** Template

This screenshot shows the 'Edition' and 'Templates' sections of the AWS RDS console. Under 'Edition', 'MySQL Community' is selected. A 'Known issues/limitations' box is present. Under 'Version', 'MySQL 8.0.27' is selected. In the 'Templates' section, 'Free tier' is selected, with a note about using the Free Tier for development and testing.

Edition

☒ MySQL Community

Known issues/limitations
Review the [Known issues/limitations](#) to learn about potential compatibility issues with specific database versions.

Version

MySQL 8.0.27

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](#)

Fill in the details for DB name, user credentials and other section details as shown in the images below.

This screenshot shows the 'Settings' section of the AWS RDS console. It includes fields for 'DB instance identifier' (database-1), 'Master username' (admin), 'Master password' (masked), and 'Confirm password' (masked). There are also checkboxes for 'Auto generate a password' and 'Include previous generation classes'.

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.

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.

Master password [Info](#)

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote) and @ (at sign).

Confirm password [Info](#)

DB class and storage details:

This screenshot shows the 'DB instance class' section of the AWS RDS console. It lists three categories of classes: Standard, Memory optimized, and Burstable. The 'Burstable classes' category is selected, and 'db.t2.micro' is chosen from the dropdown menu. Below the dropdown, it shows '1 vCPUs', '1 GiB RAM', and 'Not EBS Optimized'. There is also a checkbox for 'Include previous generation classes'.

DB instance class

DB instance class [Info](#)

☐ Standard classes (includes m classes)

☐ Memory optimized classes (includes r and x classes)

☒ **Burstable classes (includes t classes)**

db.t2.micro
1 vCPUs 1 GiB RAM Not EBS Optimized

☐ Include previous generation classes

Storage

Storage type [Info](#)

General Purpose SSD (gp2)
Baseline performance determined by volume size

Allocated storage

GiB

(Minimum: 20 GiB. Maximum: 16,384 GiB) Higher allocated storage [may improve](#) IOPS performance.

Storage autoscaling [Info](#)

Provides dynamic scaling support for your database's storage based on your application's needs.

☒ **Enable storage autoscaling**

Enabling this feature will allow the storage to increase once the specified threshold is exceeded.

Maximum storage threshold [Info](#)

Charges will apply when your database autoscales to the specified threshold

GiB

Minimum: 21 GiB. Maximum: 16,384 GiB

Connectivity details:

Connectivity

Virtual private cloud (VPC) [Info](#)

VPC that defines the virtual networking environment for this DB instance.

Default VPC (vpc-00857f1437833035e)

Only VPCs with a corresponding DB subnet group are listed.

After a database is created, you can't change its VPC.

Subnet group [Info](#)

DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

default

Public access [Info](#)

☒ **Yes**

Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.

☐ **No**

RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

VPC security group

Choose a VPC security group to allow access to your database. Ensure that the security group rules allow the appropriate incoming traffic.

☒ **Choose existing**
Choose existing VPC security groups

☐ **Create new**
Create new VPC security group

Existing VPC security groups

default ✕

Availability Zone [Info](#)

► **Additional configuration**

Subnet group [Info](#)
 DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

default ▼

Public access [Info](#)

☒ **Yes**
 Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.

☐ **No**
 RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

VPC security group
 Choose a VPC security group to allow access to your database. Ensure that the security group rules allow the appropriate incoming traffic.

☒ **Choose existing**
 Choose existing VPC security groups

☐ **Create new**
 Create new VPC security group

Existing VPC security groups

Choose VPC security groups ▼

default ✕

Availability Zone [Info](#)

No preference ▼

▼ **Additional configuration**

Database port [Info](#)
 TCP/IP port that the database will use for application connections.

3306

Keep the default settings and enable backups

▼ **Additional configuration**
 Database options, backup enabled, backtrack disabled, Enhanced Monitoring disabled, maintenance, CloudWatch Logs, delete protection disabled.

Database options

Initial database name [Info](#)

customer

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

⚠ Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to details [here](#).

Backup retention period [Info](#)
 Choose the number of days that RDS should retain automatic backups for this instance.

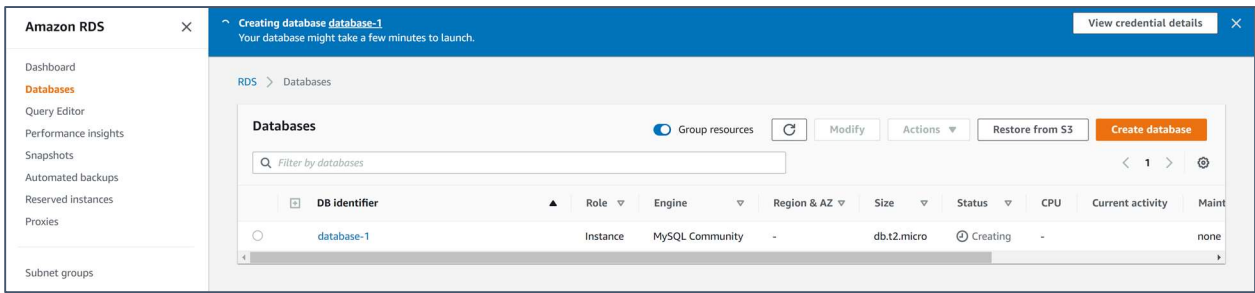
7 days ▼

Finally, click on “Create database”.

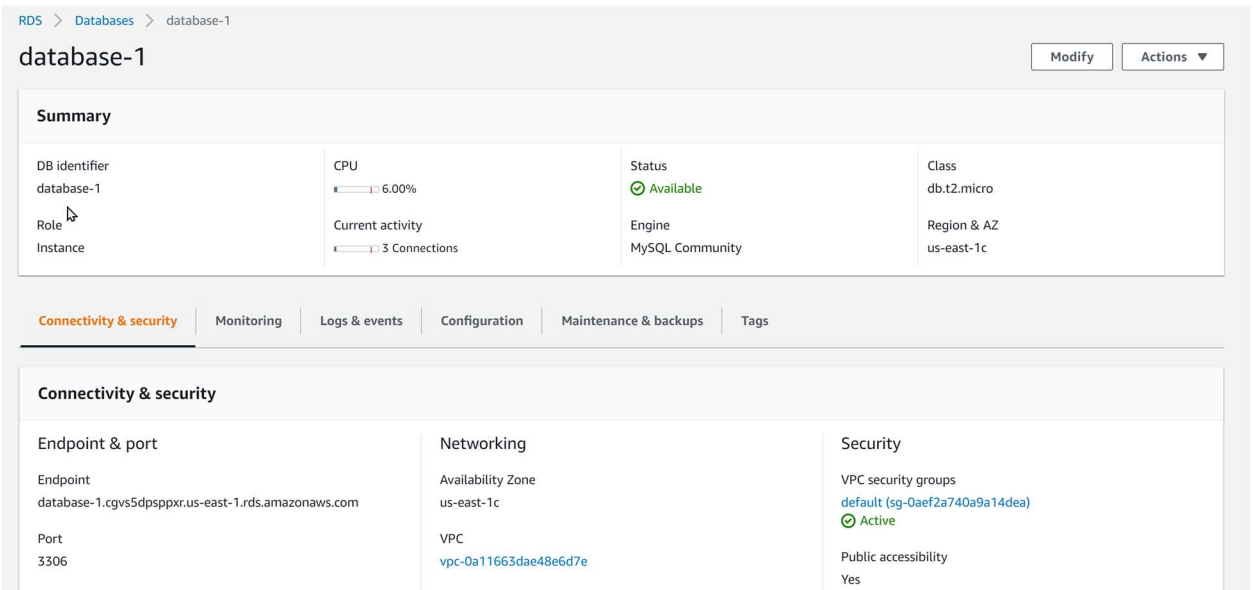
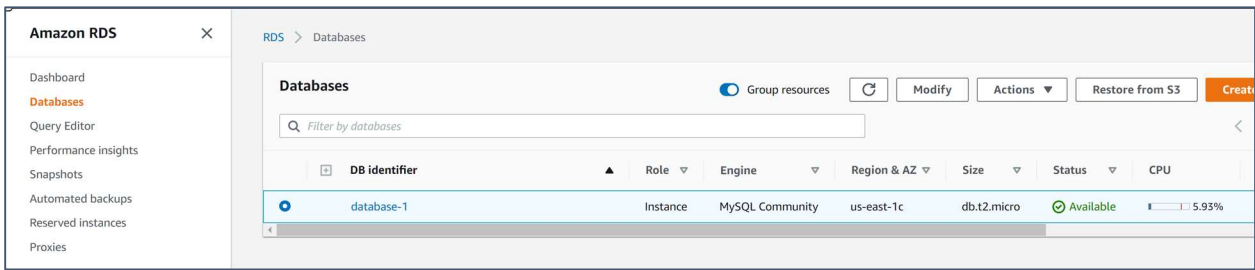
ⓘ You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.

Cancel **Create database**

Verify the database creation on the RDS homepage.



Database setup is now complete, and database is available.



Connecting your RDS Instance remotely

On the command prompt, enter the following credentials- **endpoint, port, username, and password**

mysql -h <endpoint> -P <port number> -u <user name> -p

```
ubuntu@ip-172-31-26-39:~$ mysql -h database-1.cgvs5dpsspxr.us-east-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 40
Server version: 8.0.27 Source distribution

Copyright (c) 2000, 2022, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

To view all the **databases** available, enter the following command: ***show databases;***

```
mysql> show databases;
+-----+
| Database |
+-----+
| customer |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.00 sec)

mysql> █
```

To select any database, enter the following command: ***use customer;***

```
mysql> use customer;
Database changed
```

To create a table, insert data and see the table, use the following commands:

CREATE TABLE customers (name varchar(20), country varchar (20));

```
mysql> CREATE TABLE customers (name varchar(20), country varchar (20));
Query OK, 0 rows affected (0.02 sec)

mysql> █
```

Using a Client (DBeaver) to browse the configured MySQL DB.

