

☒ **Standard create**

You set all of the configuration options, including ones for availability, security, backups, and maintenance.

☐ **Easy create**

Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type [Info](#)

☐ Amazon Aurora



☐ MySQL



☒ MariaDB



☐ PostgreSQL



☐ Oracle

ORACLE®

☐ Microsoft SQL Server



MariaDB 10.5.13 ▼

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](#)

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.

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](#)

.....

Confirm password [Info](#)

.....

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](#)

Storage

Storage type [Info](#)

General Purpose SSD (gp2)

Baseline performance determined by volume size



Allocated storage

20

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

1000

GiB

Minimum: 21 GiB. Maximum: 16,384 GiB

Maximum storage threshold [Info](#)

Charges will apply when your database autoscales to the specified threshold

GiB

Minimum: 21 GiB. Maximum: 16,384 GiB

Availability & durability

Multi-AZ deployment [Info](#)

- ☒ Create a standby instance (recommended for production usage)
Creates a standby in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.
- ☐ Do not create a standby instance

Connectivity



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

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

 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

▼ Additional configuration

Database options, backup enabled, backtrack disabled, Enhanced Monitoring disabled, maintenance, CloudWatch Logs, delete protection disabled.

Database options

Initial database name [Info](#)

If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group [Info](#)



Option group [Info](#)



Amazon RDS

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- Query Editor
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- Automated backups
- Reserved instances
- Proxies
- Subnet groups
- Parameter groups
- Option groups
- Custom engine versions

Creating database [database-1](#)
Your database might take a few minutes to launch.

[View credential details](#)

RDS > Databases

Databases

☒ Group resources

Modify

Actions ▼

Restore from S3

Create database

< 1 >


DB identifier	▲	Role ▼	Engine ▼	Region & AZ ▼	Size ▼
database-1		Instance	MariaDB	-	db.t2.micro


- EC2 Dashboard
- EC2 Global View
- Events
- Tags
- Limits

▼ Instances




- Instances** New
- Instance Types
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- Savings Plans
- Reserved Instances New
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations

Instances (1) [Info](#)

 [Connect](#) [Instance state ▼](#) [Actions ▼](#) [Launch instances](#) [▼](#)

< 1 > 

[×](#) [Clear filters](#)

<input type="checkbox"/>	Name ▼	Instance ID ▲	Instance state ▼	Instance type ▼	Status check	Alarm status	A
<input type="checkbox"/>	-	i-03a8ee911327485f8	 Pending  	t2.micro	-	No alarms +	u

Select an instance

=



Package	Arch	Version	Repository	Size
---------	------	---------	------------	------

```
Installing:
 mariadb                x86_64                1:5.5.68-1.amzn2                amzn2-core                8.8 M
```

Transaction Summary

```
Install 1 Package
```

Total download size: 8.8 M
Installed size: 49 M
Is this ok [y/d/N]: y
Downloading packages:
mariadb-5.5.68-1.amzn2.x86_64.rpm | 8.8 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
 Installing : 1:mariadb-5.5.68-1.amzn2.x86_64 1/1
 Verifying : 1:mariadb-5.5.68-1.amzn2.x86_64 1/1

Installed:
 mariadb.x86_64 1:5.5.68-1.amzn2

Complete!
[root@ip-172-31-5-96 ec2-user]#

```
=====
Install 1 Package
```

```
Total download size: 8.8 M
```

```
Installed size: 49 M
```

```
Is this ok [y/d/N]: y
```

```
Downloading packages:
```

```
mariadb-5.5.68-1.amzn2.x86_64.rpm
```

```
| 8.8 MB 0
```

```
Running transaction check
```

```
Running transaction test
```

```
Transaction test succeeded
```

```
Running transaction
```

```
Installing : 1:mariadb-5.5.68-1.amzn2.x86_64
```

```
Verifying : 1:mariadb-5.5.68-1.amzn2.x86_64
```

```
Installed:
```

```
  mariadb.x86_64 1:5.5.68-1.amzn2
```

```
Complete!
```

```
[root@ip-172-31-5-96 ec2-user]# mysql --version
```

```
mysql Ver 15.1 Distrib 5.5.68-MariaDB, for Linux (x86_64) using readline 5.1
```

```
[root@ip-172-31-5-96 ec2-user]# mysql -h database-1.cxcyszabpqme.us-west-2.rds.amazonaws.com -P 3306 -u admin -padmin
```

```
ERROR 1045 (28000): Access denied for user 'admin'@'172.31.5.96' (using password: YES)
```

```
[root@ip-172-31-5-96 ec2-user]#
```

```
[root@ip-172-31-5-96 ec2-user]#
```

```
[root@ip-172-31-5-96 ec2-user]# █
```

Edit inbound rules

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Security group rule ID	Type	Protocol	Port range	Source	Description - optional	
sgr-06f83af07ad8cb3cc	MYSQL/Aurora	TCP	3306	Custom		Delete
				0.0.0.0/0		
sgr-06318f0ce96793a00	All traffic	All	All	Custom		Delete
				sg-0434e8b7c00fda44f		

Add rule

Step 2

Add permissions

Step 3

Name, review, and create



AWS service

Allow AWS services like EC2, Lambda, or others to perform actions in this account.



AWS account

Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.



Web identity

Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.



SAML 2.0 federation

Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.



Custom trust policy

Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

Common use cases



EC2

Allows EC2 instances to call AWS services on your behalf.



Lambda

Allows Lambda functions to call AWS services on your behalf.

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Add permissions

Permissions policies (Selected 1/729)

Create Policy

Choose one or more policies to attach to your new role.

Q

Filter policies by property or policy name and press enter

9 matches < 1 >

"RDS" X

Clear filters

	Policy name	Type	Description
<input checked="" type="checkbox"/>	<div><div></div>AmazonRDSFullAc...</div>	AWS m...	Provides full access to Amazon RDS via the AWS Managem...
<input type="checkbox"/>	<div><div></div>AmazonRDSDirecto...</div>	AWS m...	Allow RDS to access Directory Service Managed AD on beh...
<input type="checkbox"/>	<div><div></div>RDSCloudHsmAuth...</div>	AWS m...	Default policy for the Amazon RDS service role.
<input type="checkbox"/>	<div><div></div>AmazonRDSDataF...</div>	AWS m...	Allows full access to use the RDS data APIs, secret store AP...
<input type="checkbox"/>	<div><div></div>AmazonRDSReadO...</div>	AWS m...	Provides read only access to Amazon RDS via the AWS Ma...

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

Settings

Introducing the new IAM roles experience
We've redesigned the IAM roles experience to make it easier to use. [Let us know what you think.](#)

Role RDS-FullAccessRole-EC2 created

View role

IAM > Roles

Roles (27) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.



Delete

Create role

Search

< 1 2 > ⚙

<input type="checkbox"/>	Role name	Trusted entities
<input type="checkbox"/>	aws-codestar-service-role	AWS Service: codestar
<input type="checkbox"/>	aws-elasticbeanstalk-ec2-role	AWS Service: ec2
<input type="checkbox"/>	aws-elasticbeanstalk-service-role	AWS Service: elasticbeanstalk

Modify IAM role [Info](#)

Attach an IAM role to your instance.

Instance ID

 [i-03a8ee911327485f8](#)

IAM role

Select an IAM role to attach to your instance or create a new role if you haven't created any. The role you select replaces any roles that are currently attached to your instance.

RDS-FullAccessRole-EC2



[Create new IAM role](#) 

Cancel

Save

```
[root@ip-172-31-5-96 ec2-user]# mysql -h database-1.cxcyszabpqme.us-west-2.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 35
Server version: 10.5.13-MariaDB-log managed by https://aws.amazon.com/rds/

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MariaDB [(none)]> █
```

```
[root@ip-172-31-5-96 ec2-user]# mysql -h database-1.cxcyszabpqme.us-west-2.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
```

```
Welcome to the MariaDB monitor.  Commands end with ; or \g.
```

```
Your MariaDB connection id is 35
```

```
Server version: 10.5.13-MariaDB-log managed by https://aws.amazon.com/rds/
```

```
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
```

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

```
MariaDB [(none)]> show databases
```

```
-> ;
```

Database
employee
information_schema
innodb
mysql
performance_schema

```
5 rows in set (0.00 sec)
```

```
MariaDB [(none)]> █
```