Private

us-east-1.console.aws.amazon.com

Create database | Aurora and RDS | us-east-1

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Aurora and RDS > Create database

Create database Info

Using RDS to create a MySQL database

Choose a database creation method

- (•) 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

- ( ) Aurora (MySQL Compatible)
- ( ) Aurora (PostgreSQL Compatible)
- (•) MySQL
- ( ) PostgreSQL
- ( ) MariaDB
- ( ) Oracle
- ( ) Microsoft SQL Server
- ( ) IBM Db2

Edition

(•) MySQL Community

Engine version Info
View the engine versions that support the following database features.

▼ Hide filters

- [ ] Show only versions that support the Multi-AZ DB cluster Info
  Create a A Multi-AZ DB cluster with one primary DB instance and two readable standby DB instances. Multi-AZ DB clusters provide up to 2x faster transaction commit latency and automatic failover in typically under 35 seconds.
- [ ] Show only versions that support the Amazon RDS Optimized Writes Info
  Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.

Engine version

MySQL 8.0.40

- [ ] Enable RDS Extended Support Info
  Amazon RDS Extended Support is a paid offering. By selecting this option, you consent to being charged for this offering if you are running your database major version past the RDS end of standard support date for that version. Check the end of standard support date for your major version in the RDS for MySQL documentation.

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

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers 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.

Templates
Choose a sample template to meet your use case.

- ○ **Production**
  Use defaults for high availability and fast, consistent performance.
- ○ **Dev/Test**
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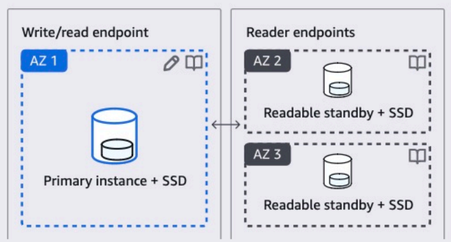
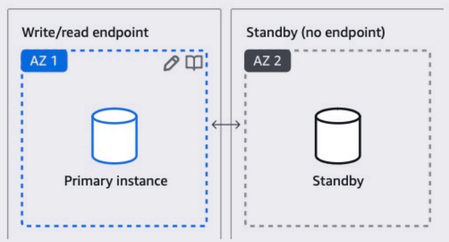
Availability and durability

Deployment options Info
Choose the deployment option that provides the availability and durability needed for your use case. AWS is committed to a certain level of uptime depending on the deployment option you choose. Learn more in the Amazon RDS service level agreement (SLA).

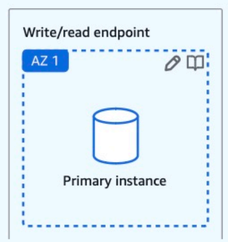
- ○ Multi-AZ DB cluster deployment (3 instances)
  Creates a primary DB instance with two readable standbys in separate Availability Zones. This setup provides:
  - 99.95% uptime
  - Redundancy across Availability Zones
  - Increased read capacity
  - Reduced write latency



- ○ Multi-AZ DB instance deployment (2 instances)
  Creates a primary DB instance with a non-readable standby instance in a separate Availability Zone. This setup provides:
  - 99.95% uptime
  - Redundancy across Availability Zones



- ◉ **Single-AZ DB instance deployment (1 instance)**
  Creates a single DB instance without standby instances. This setup provides:
  - 99.5% uptime
  - No data redundancy



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 63 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. 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.

Master password | Info

••••••••••••••••

Password strength Very weak

Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ' " @

Confirm master password | Info

••••••••••••••••

Configuring parameters for the MySQL database during setup, defining key settings for performance and access.

MySQL

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Instance configuration
The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class | Info

▼ Hide filters

Show instance classes that support Amazon RDS Optimized Writes Info
Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.

Include previous generation classes

Standard classes (includes m classes)
Memory optimized classes (includes r and x classes)
Burstable classes (includes t classes)

db.t4g.micro
2 vCPUs 1 GiB RAM Network: Up to 2,085 Mbps

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Storage

Storage type Info
Provisioned IOPS SSD (io2) storage volumes are now available.

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

Allocated storage Info

20 GiB

Allocated storage value must be 20 GiB to 6,144 GiB

▼ Additional storage configuration

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 after the specified threshold is exceeded.

Maximum storage threshold Info
Charges will apply when your database autoscales to the specified threshold

1000 GiB

Allocated storage value must be 22 GiB to 6,144 GiB

Connectivity Info

Compute resource
Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

Don't connect to an EC2 compute resource
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

Connect to an EC2 compute resource
Set up a connection to an EC2 compute resource for this database.

Network type Info
To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.

IPv4
Your resources can communicate only over the IPv4 addressing protocol.

Dual-stack mode
Your resources can communicate over IPv4, IPv6, or both.

Virtual private cloud (VPC) Info
Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Default VPC (vpc-0980ec990d93e8135)
6 Subnets, 6 Availability Zones

Only VPCs with a corresponding DB subnet group are listed.

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

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

▼ **Additional configuration**

Database port Info
TCP/IP port that the database will use for application connections.
3306

Tags - *optional*
A tag consists of a case-sensitive key-value pair.
No tags associated with the resource.
Add new tag
You can add up to 50 more tags.

Database authentication

Database authentication options Info
- (•) 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.
- ( ) Password and Kerberos authentication
  Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

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Monitoring Info
Choose monitoring tools for this database. Database Insights provides a combined view of Performance Insights and Enhanced Monitoring for your fleet of databases. **Database Insights** pricing is separate from RDS monthly estimates. See Amazon CloudWatch pricing.

Database Insights - Advanced
- Retains 15 months of performance history
- Fleet-level monitoring
- Integration with CloudWatch Application Signals

(•) Database Insights - Standard

▼ **Additional monitoring settings**
Enhanced Monitoring, CloudWatch Logs and DevOps Guru

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

Log exports
Select the log types to publish to Amazon CloudWatch Logs
[ ] Audit log
[ ] Error log
[ ] General log
[ ] Slow query log

IAM role
The following service-linked role is used for publishing logs to CloudWatch Logs.
RDS service-linked role

▶ **Additional configuration**
Database options, encryption turned on, backup turned on, backtrack turned off, maintenance, CloudWatch Logs, delete protection turned off.

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, db.t3.micro or db.t4g.micro Instance.
- 20 GB of General Purpose Storage (SSD)

Aurora and RDS
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Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New
Events
Event subscriptions
Recommendations 0
Certificate update

database-1

Modify | Actions

Summary

DB identifier database-1	**Status** Available	**Role** Instance	**Engine** MySQL Community
CPU 2.63%	**Class** db.t4g.micro	**Current activity** 0 Connections	**Region & AZ** us-east-1f

Recommendations

Connectivity & security | Monitoring | Logs & events | Configuration | Zero-ETL integrations | Maintenance & backups | Data migrations - *new* | Tags | Recommendations

MySQL database live and active, used to manage structured data for applications such as websites, customer records, and internal systems.

Connectivity & security

Endpoint & port

Endpoint
database-1.cyjku8gs4qhe.us-east-1.rds.amazonaws.com

Port
3306

Networking

Availability Zone
us-east-1f

VPC
vpc-0980ec990d93e8135

Subnet group
default-vpc-0980ec990d93e8135

Subnets
subnet-0ed6d29dd7fe9d373
subnet-0338ecb764f246287
subnet-0b495021db9f741f2
subnet-038f2a3dc1c9915ce
subnet-04123adf1abb355fd
subnet-034354d291a4c7a2e

Network type
IPv4

Security

VPC security groups
testMySQLdatabase (sg-03431e2de4edfcaa3)
Active

Publicly accessible
Yes

Certificate authority Info
rds-ca-rsa2048-g1

Certificate authority date
May 25, 2061, 18:34 (UTC-05:00)

DB instance certificate expiration date
April 05, 2026, 09:21 (UTC-05:00)

Connected compute resources (0) Info

Actions

Connections to compute resources that were created automatically by RDS are shown here. Connections to compute resources that were created manually aren't shown.

Filter by compute resources

1

Resource identifier	Resource type	Availability Zone	VPC security group	Compute resource security group	Connected proxy

No connected compute resources
No connected compute resources that were created automatically to display.

Set up EC2 connection | Set up Lambda connection

Proxies (0)

Actions | Create proxy

Filter by proxies

1

Proxy identifier	Status	Engine family

No proxies
You don't have any proxies.

Create proxy

Security group rules (2)

Aurora and RDS
Dashboard
Databases
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Exports in Amazon S3
Automated backups
Reserved instances
Proxies
Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New
Events
Event subscriptions
Recommendations 0
Certificate update

Endpoint
database-1.cyjku8gs4qhe.us-east-1.rds.amazonaws.com

Port
3306

Availability Zone
us-east-1f

VPC
vpc-0980ec990d93e8135

Subnet group
default-vpc-0980ec990d93e8135

Subnets
subnet-0ed6d29dd7fe9d373
subnet-0338ecb764f246287
subnet-0b495021db9f741f2
subnet-038f2a3dc1c9915ce
subnet-04123adf1abb355fd
subnet-034354d291a4c7a2e

Network type
IPv4

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testMySQLdatabase (sg-03431e2de4edfcaa3)
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Publicly accessible
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No connected compute resources that were created automatically to display.

Set up EC2 connection | Set up Lambda connection

Proxies (0)

Create proxy

Filter by proxies

Proxy identifier	Status	Engine family

No proxies
You don't have any proxies.

Create proxy

MySQL database live and active—commonly used by businesses to manage structured data for applications such as websites, customer records, and internal systems.

Security group rules (2)

Filter by Security group rules

Security group	Type	Rule
testMySQLdatabase (sg-03431e2de4edfcaa3)	CIDR/IP - Inbound	12.90.44.46/32
testMySQLdatabase (sg-03431e2de4edfcaa3)	CIDR/IP - Outbound	0.0.0.0/0

Replication (1)

Filter by Replication

DB identifier	Role	Region & AZ	Replication source	Replication state	Lag
database-1	Instance	us-east-1f	-	-	-

Aurora and RDS
Dashboard
Databases
Query Editor
Performance insights
Snapshots
Exports in Amazon S3
Automated backups
Reserved instances
Proxies

Subnet groups
Parameter groups
Option groups
Custom engine versions
Zero-ETL integrations New

Events
Event subscriptions

Recommendations 0
Certificate update

Successfully created snapshot databaseV1. View details

Snapshot created of the database to allow for restoration, regional replication, or configuration updates. This also allows for sharing and use within a company located in multiple regions.

databasev1

Actions

Details

ARN
arn:aws:rds:us-east-1:825765423090:snapshot:databasev1

Instance/Cluster Name
database-1

Master username
admin

DB snapshot name
databasev1

Snapshot type
manual

DB engine
mysql

DB engine version
8.0.40

License model
general-public-license

Architecture settings
Non-multitenant architecture

Option group
default:mysql-8-0

Zone
us-east-1f

KMS key ID
arn:aws:kms:us-east-1:825765423090:key/a42d9719-63ae-40c1-bbea-21595481fa9b

Source region
N/A

Snapshot Creation Time
April 05, 2025, 15:27 (UTC-05:00)

Original Snapshot Creation Time
April 05, 2025, 15:27 (UTC-05:00)

Instance/Cluster Creation
April 05, 2025, 09:22 (UTC-05:00)

VPC
vpc-0980ec990d93e8135

Status
Available

Storage type
General Purpose SSD (gp2)

DB storage
20 GiB

IOPS
-

Storage throughput
0

Port
3306

Time zone

Dedicated Log Volume
Turned off

Recent events | Tags | Exports in S3

Recent events (2)

Last 1 day

Find events

1

Time	System notes
April 05, 2025, 15:28 (UTC-05:00)	Manual snapshot created
April 05, 2025, 15:27 (UTC-05:00)	Creating manual snapshot